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OUR MISSION

The mission of the Charles Redd Center for Western Studies is to promote the study of the Intermountain West by sponsoring research, publication, teaching, and public programs in a variety of academic disciplines including history, geography, sociology, anthropology, politics, economics, religious studies, literature, art, folklore, range science, forestry, and popular culture.

PERSONNEL

FACULTY

Jay H. Buckley, *Director*

Brenden W. Rensink, *Associate Director*

STAFF

Amy M. Carlin, *Office Specialist*

STUDENT EMPLOYEES AND INTERNS FOR 2022

Sam Alger, Ellie Hart, Makoto Hunter, Emma Kenney, Emily Lambert, Halle Mason, Lindsey Meza, Deveney Reber, Kate Stahlecker, Sydney Wilson, Kimberlyn Yellowhair, and Sydney Zundel

CURRENT BOARD MEMBERS

Thomas G. Alexander, *Lemuel Hardison Redd Jr. Professor Emeritus of Western American History, Brigham Young University*

James B. Allen, *Lemuel Hardison Redd Jr. Professor Emeritus of Western American History, Brigham Young University*

Tacey M. Atsitty-Gonzales, *Diné, Indigenous Poet*

Lisa Bendito-Anderson, *Museum of Art, Utah Valley University*

Mark Brunson, *Department of Environment and Society, Utah State University*

John E. Butler, *Butler Family Representative*

Brian Q. Cannon, *Department of History, Brigham Young University, and Former Redd Center Director*

J. Gordon Daines III, *L. Tom Perry Special Collections, Brigham Young University*

Jessie L. Embry, *Redd Center Emeritus, Brigham Young University*

Ed Geary, *Redd Center and Department of English Emeritus, Brigham Young University*

Holly George, *Utah Historical Quarterly, Utah State Historical Society*

Brock McMillan, *Department of Plant and Wildlife Sciences, Brigham Young University*

John M. Murphy, *L. Tom Perry Special Collections, Brigham Young University*

Jeff Nichols, *Department of History, Westminster College*

Samuel Otterstrom, *Department of Geography, Brigham Young University*

Erik Redd Rasmussen, *Redd Family Representative*

Mike Taylor, *Department of English, Brigham Young University*

Carol Ward, *Department of Sociology, Brigham Young University*

LEMUEL HARDISON REDD JR. PROFESSOR OF WESTERN AMERICAN HISTORY

Ignacio M. García

LEMUEL HARDISON REDD JR. PROFESSOR EMERITI OF WESTERN AMERICAN HISTORY

Thomas G. Alexander, James B. Allen

The Charles Redd Center for Western Studies returned to normal operations in 2022. The Redd Center continued to fulfill its mission: to promote the study of the Intermountain West (AZ, CO, ID, MT, NV, NM, UT, and WY) by sponsoring research, publication, teaching, and public programs in a variety of academic disciplines including history, geography, sociology, anthropology, politics, economics, religious studies, literature, art, folklore, range science, forestry, popular cultures, and others.

AWARDS

The center underwrote the scholarship of BYU students researching western studies topics through the Annalee Naegle Redd Student Awards in Women's History, Research Awards for BYU upper-division and graduate students; senior seminar/capstone project grants; internships; research assistantships; and experiential learning endeavors. Off-campus students benefit through receiving Annalee Naegle Redd Student Awards in Women's History and Research Awards for upper-division and graduate students.

The center advanced faculty scholarship in western studies in several ways. BYU faculty received Annalee Naegle Redd Research Assistantships, Interdisciplinary Studies Grants, John Topham and Susan Redd Butler BYU Faculty Research Awards, and Young Scholar Awards. Off-campus faculty and independent scholars received Charles Redd Fellowship Awards in Western American History and John Topham and Susan Redd Butler Off-Campus Faculty Research Awards. They also applied to become Visiting Fellows. Other applicants received Independent Research and Creative Work Awards, Public Programming Awards, and Publication Grants. The Redd Center also offers the Clarence Dixon Taylor Research Awards and Research Grants for topics related to Utah studies. The center awarded received seventy-four applications and awarded more than \$134,000 in its annual awards competition in March 2022.

The Redd Center funded prizes for articles in professional journals, western organizations, and State History Day competitions. It supported western studies museum exhibits and helped fund other public programs in western studies.

The center's Karl and Mollie Butler Young Scholar Award recognizes outstanding academic promise in Western American Studies by junior faculty members at Brigham Young University. We congratulate this year's recipient: Benjamin Abbott, Plant and Wildlife Sciences (2022–2025). Ongoing Butler Young Scholars for 2022 include David-James Gonzales, History (2021–2024);

Mike Taylor, English (2020–23); and Scott Sanders, Sociology (2019–2022).

The Redd Center continued its collaboration with the Utah Humanities Council, the Utah State Historical Society, and the University of Utah in sponsoring conferences and lectures elsewhere in Utah. We also sponsored prizes and events in conjunction with professional organizations including the Western History Association, the Western Literature Association, the Western Political Science Association, Phi Alpha Theta, the Western Museum Association, the Native American Literature Symposium, the Mormon History Association, the Utah State Historical Society, the Tanner Humanities Center, and the Buffalo Bill Historical Association.

Since 2012, the Redd Center has sponsored an annual Clarence Dixon Taylor Award recognizing significant publications related to topics about Utah, Carbon, and Wasatch County history and economic development, including individuals, families, communities, and institutions in those counties. In 2020, we created an additional Clarence Dixon Taylor Research Grant to foster and encourage research on Utah, Carbon, and Wasatch County history and economic development. Alyssa Russell (History; Duke University) was our 2022 awardee for her research "Economic Development at What Cost? The Fantasy Company, Financial Subsidies, and Working-Class Communities, 1919–1999."

PUBLIC PROGRAMMING AND OUTREACH

During winter semester, the Redd Center contributed to western studies at BYU by sponsoring guest lectures that were available via live feed to viewers elsewhere. In January, Professor Simon J. Bronner of PSU–Harrisburg delivered the William A. "Bert" Wilson Folklore Archives Founder's Lecture, which the center co-sponsored. His topic was "A Resonant Background: Landscape, Region, and Makerspace in Folklore and Cultural Studies."

In February, Religious Studies Professor Fred E. Woods presented his new documentary *Bright Lights in the Desert: The Latter-day Saints of Las Vegas*. In March, University of Utah Professor and American West Center Director Gregory E. Smoak presented the Annalee Naegle Redd Lecture entitled "History at the Center(s) of the West: Thoughts on Regional Public History Practice."

In May, the center co-sponsored a "Railroads in Native America Gathering" in Ogden. In June, the center organized and presented a session highlighting "Latter-day Saint and Mormon History Association Connections to the Charles Redd Center" in Logan, Utah. We simultaneously commemorated Leonard J. Arrington's

influence as the founder for both entities. During August, the Redd Center supported a conference at the University of Utah entitled “Indigenous Perspectives on the Meanings of Lamanite” in Salt Lake City.

The center sponsored the Clarence Dixon Taylor Lecture in October, entitled “Exploring the Settlement of Utah County” and delivered by William W. Tanner, editor of the *Pioneer* magazine and winner of the 2021 Clarence Dixon Taylor Award. That same month, the Redd Center hosted a fiftieth anniversary jubilee reception at the Western History Association meeting in San Antonio, Texas. We also co-sponsored a lecture with the history department delivered by Darren Parry, former chairperson of the Northwestern Band of the Shoshone Nation, whose book *The Bear River Massacre: A Shoshone History* was the BYU history department book of the year.

In November, Adam M. Sowards, Professor Emeritus of History, University of Idaho, delivered the Butler-Peters Lecture entitled “Making America’s Public Lands: The Contested History of Conservation.” We finished the year by co-sponsoring a Global Women’s Studies Lecture given by Tiffany J. Gonzalez, Assistant Professor of History, James Madison University.

REDD CENTER JUBILEE

On March 25, 2022, the center celebrated its fifty-year history in conjunction with our annual board meeting. The daylong symposium included a presentation in the morning about the history of the Redd Center. Participants included Thomas G. Alexander, Jessie L. Embry, Ed Geary, Brian Q. Cannon, Brenden W. Rensink, and Jay H. Buckley.

In the afternoon, the children of Charles and Annaley Redd shared memories of their parents and family. Panel participants included Katheryn “Kathy” Anne Redd Mullins, Charles Hardison “Hardy” Redd, Robert Byron Redd, Paul David Redd, Maraley Redd Rasmussen, Beverly Redd Woods, Regina “Gina” Mitchell, and Rebecca “Becky” Sue Redd Lambert.

After the family reminiscences, we celebrated the fifty-year history of the Charles Redd Center for Western Studies with birthday cake and unveiled a book entitled *A Golden Jubilee History: The Charles Redd Center for Western Studies* (Provo, UT: Charles Redd Center for Western Studies, 2022). This was a labor of love made possible by help from past directors Tom Alexander, Ed Geary, Brian Cannon, and especially past associate director Jessie Embry. Two of Charlie and Annaley Redd’s sons, Hardy and Robert, and Clarence Dixon Taylor also helped edit and illustrate the family portions of the jubilee history. BYU students Andra Lainhart Wells, Camilla Richardson, Nicole (Nikki) Smith, and Emily White contributed research drafts for some of the

chapters. I am extremely grateful for Amy Carlin’s careful editing, layout, and assistance with the publication!

NEW AND CONTINUING INITIATIVES

The center continues to support a broad range of diversity endeavors. This year was the first of our Native American Civil Rights Seminar. BYU faculty Mike Taylor, Jay Buckley, and Jenny Pulsipher took a dozen students to Rapid City, South Dakota, Mount Rushmore, the Crazy Horse Monument, Pine Ridge Indian Reservation, Cheyenne River Indian Reservation, and Standing Rock Indian Reservation. We also did a service project for native youth spearheaded by Civil Rights leader Madonna Thunderhawk. On Sunday, we attended the Fort Yates Branch before flying home from Bismarck. The College of Family Home and Social Sciences graciously provided travel funding for the students and faculty.

We are involved in BYU’s Indigenous and African Slavery Initiative. The center’s board of directors approved a Mae Timbimboo Parry Indigenous Studies Award for the Mormon History Association to recognize excellent Indigenous scholarship. The MHA recognized Mae Timbimboo’s grandson, Darry Parry, and awarded him the inaugural award. The center honored its Memorandum of Understanding with the *Journal of Mormon History* and the Mormon History Association for the duration of Jessie Embry’s term as editor, which will end in August 2023.

Moreover, the first funding cycle for several BYU student awards and scholarships took place. BYU undergraduate students Paul Guajardo and Gabrielle Segura received the Ignacio Garcia Scholarship for Indigenous and Students of Color, which is co-sponsored between the history department and the Redd Center. As two students were awarded, each will receive half tuition for the year. Professor Garcia remains the Lemuel Hardison Redd Jr. Professor in Western American History (2006–present). Garcia, a pioneer in Mexican American Studies, is a prolific historian. His work illuminates the Chicano, Hispanic, and Latina/o/x emergence as a major political and cultural force in the Intermountain region.

The center funded the brand-new Bertis L. and Anna E. C. Embry Award in Global Latter-day Saint History student award in the history department as well as other student awards across campus, including the Eugene E. Campbell Award in Utah History, the Fred R. Gowans Award in 19th C. American West History, the American Indian Studies Indigenous History Award, and the William J. Snow Award in American West or Latter-day Saint History (co-sponsor). These were funded by the Bertis L. and Anna E. C. Embry endowment. We express gratitude to Jessie Embry for her continued support of and contributions to the Redd Center.

The center awarded publication grants to several books including Michael K. Johnson, *A Black Woman's West: The Life of Rose B. Gordon* (Helena: Montana Historical Society, 2022); Michelle Berry, *Cow Talk: Work, Ecology, and Range Cattle Ranchers in the Postwar Mountain West* (Norman: University of Oklahoma Press, 2023); and Yolanda Youngs, *Framing Nature: The Creation of an American Icon at the Grand Canyon* (Lincoln: University of Nebraska Press, forthcoming).

We extend our appreciation to outgoing board members: Val Anderson, Dennis Cutchins, and Jason B. Jones. We extend our welcome to our newer board members Lisa Bendino-Anderson, J. Gordon Daines III, Brock McMillan, and Michael Taylor. We are pleased to announce that Farina King, Michael Taylor, and James Swensen's book *Returning Home: Diné Creative Works from the Intermountain Indian School* (Tucson: University of Arizona Press, 2021) won a number of awards, including one from the Mormon History Association and the Best Book in Utah History from the Utah Division of State History and the Utah Historical Society.

We are excited to announce a new summer seminar and forthcoming anthology on "Religion in the American West," spearheaded by organizers and editors Todd M. Kerstetter and Fred E. Woods. The call for papers went out and the editors have selected a dozen promising essays. The center will host a summer workshop for the prospective contributors the first weekend in June.

Student outreach efforts continued in several ways. The College of Family, Home and Social Sciences generously provided \$14,000 of experiential learning funds split between the Redd Center and the American Indian Studies Minor that Buckley also directs.

Twelve students received experiential learning funds in 2022: 1) Sam Alger, Ellie Hart, Makoto Hunter, Emma Kenney, Emily Lambert, Halle Mason, Lindsey Meza, Deveney Reber, and Kate Stahlecker as Redd Center research assistants; 2) Lindsey Meza and Sydney Wilson as Redd Center interns; and 3) indigenous students Kimberlyn Yellowhair, and Sydney Zundel as AIS program coordinators.

With the capable and talented assistance of Associate Director Brenden Rensink and Office Specialist Amy Carlin, the Redd Center continues to improve our outreach and contributions to western studies. Rensink continues his excellent efforts to develop the center's region-wide digital public history venture, *Intermountain Histories*. Faculty and students in history courses on several campuses and student interns under Rensink's supervision contribute to the project, which has published more than 650 stories. See Rensink's report for updates on this public history venture, as well as his *Writing Westward* podcast and the center's newsletters.

DIRECTOR BUCKLEY'S HISTORY DEPARTMENT ACTIVITIES

Faculty in the history department typically teach five courses a year. I receive a course release during winter and fall semesters due to my director responsibilities at the Redd Center. During 2022, I taught three courses: History 220 (United States History to 1877); History 360 (American West to 1900); and History 387 (American Indian History since 1830). I also co-directed the FHSS 351 Native American Civil Rights Seminar with Mike Taylor and Jenny Pulsipher.

In early 2022, the University of Oklahoma Press issued a paperback edition of my co-authored book with Matthew L. Harris, *Zebulon Pike, Thomas Jefferson, and the Opening of the American West* (hardcover 2012).

I love mentoring students, and one of my experiential learning projects resulted in a peer-reviewed article with BYU undergraduate Nathan Benavidez, "Mountain Men Reveal Yellowstone: Observations of Daniel Trotter Potts, Warren Angus Ferris, and Osborne Russell in the 1820s and 1830s" in the *Rocky Mountain Fur Trade Journal* 16 (2022): 92–127. Nathan and I also spoke at a professional conference commemorating Yellowstone's sesquicentennial (1872–2022) in Bozeman, Montana, in June and another conference focused on the fur trade at the Museum of the Mountain Man in Pinedale, Wyoming, in July.

Being an on-camera expert is always a challenging yet rewarding experience. I was featured in two episodes of the docu-drama series *Into the Wild Frontier*. The episodes feature the Lewis and Clark expedition and a fur trapper named Thomas Fitzpatrick. The episodes aired on television in March on the INSP channel and are now available through Amazon Prime.

I served as an ad hoc article reviewer for the *Great Plains Quarterly* and the *Journal of Mormon History*. Meanwhile, I serve as president of the Utah Valley Historical Society. I also serve on the editorial board of *We Proceeded On*, the peer-reviewed journal of the Lewis and Clark Trail Heritage Foundation. I work with Dr. Mike Taylor (English) in directing BYU's interdisciplinary American Indian Studies Minor. We also launched a Native American Field Study in 2022 and accompanied BYU students to the reservations in the Dakotas.

I am grateful to Redd Center board members for their active participation, excellent suggestions, and judging services in our annual awards competitions. I am grateful to history department Chair Brian Q. Cannon and FHSS Dean Laura Padilla-Walker for their continued support both of me and the center. We also appreciate the continued financial support of the extended Redd, Butler, Peters, Dixon, Taylor, and Embry families. Finally, I express my gratitude to Associate Director Brenden W. Rensink and Office Manager Amy Carlin for their hard work and professionalism. It is a pleasure to serve with you.

ASSOCIATE DIRECTOR'S REPORT: BRENDEN W. RENSINK

While we haven't yet seen a complete return to normalcy, my activities at the Redd Center in 2022 represented a step in that direction. This report offers a summary of the projects for which I serve as the primary administrator. I have also included details on my other professional activities. Please reference Director Jay H. Buckley's report for the various Redd Center activities he oversaw.

REDD CENTER AWARDS AND FUNDING

While the pandemic seemed to reduce the overall number of applications again, the field was no less competitive and our decisions were no easier. The board members who aided in judging the different award categories were presented with proposals diverse in field, topic, approach, and intended outcomes, but the quality was mostly high across the board. Redd Center endowment funds continue to be put to good use, supporting an array of projects that might otherwise struggle to receive adequate support. I am grateful to the judges for their time and expertise and to our office manager Amy Carlin for her help throughout the process. The fields or disciplines from which we received applications in 2022 included anthropology, biology, civil and construction engineering, comparative arts and letters, design, education, English, forestry, geography, history, literary arts, Mexican American studies, museum and curatorial studies, photography, plant and wildlife sciences, psychology, rangeland stewardship, religious studies, social justice, and sociology, along with proposals from independent scholars and public-facing institutions. I also represented the Redd Center in judging a number of other awards that we fund, including the Utah National History Day competition, the BYU Fulton Mentored Research poster competition, and various publication grants.

REDD CENTER EVENTS AND MEDIA

I helped organize and oversee the following public events, and I managed the live stream for those that were available online:

- Fred Woods, lecture on Latter-day Saints in Las Vegas
- Gregory E. Smoak, Annaley Naegle Redd Lecture
- Redd Center 50th Anniversary Celebrations and associated Panels
- William Tanner, Clarence Dixon Taylor Lecture
- Adam M. Sowards, William Howard and Hazel Butler Peters Lecture

I also continue to manage Redd Center publicity and media. I added some new content in the 2022

newsletters to transform the semiannual update into more than just a recap of items from our blog or social media. This newsletter is distributed to hundreds of subscribers. I also manage the Redd Center website and blog, and the social media accounts for the Redd Center, *Intermountain Histories*, the *Writing Westward* podcast, and the BYU Slavery Project on Facebook and Twitter. Our following and engagement continue to grow. The tedium of creating content, responding to inquiries, and dealing with occasional trolls is worth the effort as social media tools are proving effective in reaching new audiences and maintaining engagement with multiple constituencies.

REDD CENTER PUBLIC HISTORY PROJECTS AND PROFESSIONAL ENGAGEMENT

My *Intermountain Histories* digital public project continues to grow. During 2022, I edited and published 130 new stories, bringing the project total to over 650. Site analytics recorded an average of 8,000–9,000 users and 12,500 page views per month in 2022. I continue to host one or two interns each semester on the project, as well as a research and editorial assistant.

By year's end, the *Writing Westward* podcast totaled forty-nine episodes with many award-winning guests and from multiple disciplines. As a one-man operation, the podcast remains a time-consuming endeavor. However, I continue to be energized by the conversations and gratified by the increasing notoriety of the podcast in my professional (and some personal) circles. All episodes are available at writingwestward.org and via Apple Podcasts, Spotify, Stitcher, and various other podcast apps and distribution networks.

The Redd Center continues to support the **BYU Slavery Project**, along with the BYU Department of History; the College of Family, Home, and Social Sciences; and the Neal A. Maxwell Institute for Religious Scholarship. I currently serve as the Steering Committee chair. This project joins a growing community of universities studying the effects and legacies of slavery in their campus histories. The project has assembled an impressive steering committee and advisory board to direct activities. (View members at byuslaveryproject.org.) During summer 2022, the project employed a number of student research assistants, and we are working toward building a website to host their findings.

I represented the Redd Center by serving on several professional committees, including as chair of the Western History Association Membership Committee, board member of the Utah Valley Historical Society, member of the National Council on Public History Local

Arrangements Committee, member of the *Journal of Arizona History* Editorial Advisory Board, member of the Biennial Conference on the Science and Management of the Colorado Plateau Organizing Committee, and fellow of the Center for Great Plains Studies.

PERSONAL RESEARCH, PUBLISHING, SPEAKING, AND HONORS

I taught two courses in 2022: one section of the early American survey course for the Department of History and the Western American Studies Lecture Series course for the American Studies Program. In the spring, I was honored to give a keynote address on digital and public history at the *Mapping Tahlequah History* workshop at Northeastern State University on the Cherokee Nation. I participated in a roundtable celebrating the 50th anniversary of the Redd Center at our campus event and at the Mormon History Association annual conference. Besides a couple book reviews, my large publishing

accomplishment in 2022 was the November release of *The North American West in the Twenty-First Century* by the University of Nebraska Press. I served as the editor of this collection, which grew from the seminar I organized and hosted in summer 2019. The volume is gorgeous to look at and the contents are no less impressive. If the generous foreword and afterword by Patricia Limerick and Frank Bergon are to be believed, this anthology may have significant impact in the field.

In conclusion, 2022 was productive and rewarding, both professionally and personally. These annual opportunities to review past accomplishments continue to deepen my excitement for the Redd Center's mission and the broad influence we have. This is possible thanks to the generosity of past donors who built our various endowment funds and current associates who encourage our efforts in various ways. I continue to benefit from supportive colleagues at BYU and the Redd Center.

PLANS FOR 2023

The Charles Redd Center for Western Studies will continue to fulfill its mission to promote the study of the Intermountain West (AZ, CO, ID, MT, NV, NM, UT, and WY) through grants, awards, fellowships, public programming events, and publications in a variety of academic disciplines including history, geography, sociology, anthropology, politics, economics, religious studies, literature, art, folklore, range science, forestry, popular cultures, as well as others.

The center will continue collaboration with the Utah Humanities Council, the Utah State Historical Society, and the University of Utah in sponsoring conferences and lectures elsewhere in Utah. We will continue to sponsor prizes and events in conjunction with professional organizations including the Western History Association, the Western Literature Association, the Western Political Science Association, Phi Alpha Theta, the Western Museum Association, the Native American Literature Symposium, the Mormon History Association, the Utah State Historical Society, and the Buffalo Bill Historical Association. We will continue to support National History Day in the eight affiliated Intermountain West states of Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

The center's student outreach efforts continue to expand. The College of Family, Home and Social Sciences generously provided \$14,000 of experiential learning funds split between the Redd Center and the American Indian Studies Minor that Buckley also directs. The center will

continue to provide experiential learning opportunities for BYU students through assistantships, internships, and mentored student learning.

The center will continue its partnership with the Buffalo Bill Center of the West in supporting the Cody Digital Archive editorial internship at BYU under the direction of English professor Frank Christianson for BYU undergraduates.

The center will sponsor Charles Redd Center Awards in conjunction with the Department of Plant and Wildlife Sciences' Graduate Research Conclave. The center will offer awards for student papers through the BYU English Symposium and the BYU history department.

The center will continue to advertise and award research fellowships, including visiting fellow appointments. The center will continue to provide honoraria and travel funds for guest lecturers in western studies who visit BYU to speak to classes or deliver public lectures.

The center will continue to select and fund the Butler Young Scholar Award for BYU faculty. We will continue to fund the Lemuel Hardison Redd Jr. Endowed Chair in Western History. The center will sponsor a luncheon each semester for its BYU affiliates in western studies to promote collegiality and discussion of western studies topics.

The center will continue its outreach to K-12 teachers by funding up to four \$750 fellowships to enable teachers to attend the annual Western History Association meeting

and up three \$750 fellowships that enable K–12 teachers to attend the Western American Literature Association conference. Teachers produce lesson plans based in part upon what they have learned at those meetings, and those lesson plans will also be accessible on the center’s website.

The center will continue its tradition of promoting understanding of western American literature by cosponsoring a plenary session at the Western American Literature convention.

The center will host a summer seminar for a forthcoming anthology on “Religion in the American West,” spearheaded by organizers and editors Todd M. Kerstetter and Fred E. Woods. The call for papers was sent out in 2022, out and the editors have selected a dozen promising essays. The center will host a summer workshop for the prospective contributors the first weekend in June.

The center will continue its *Writing Westward* podcast to extend engagement with new scholarship beyond the select few authors we are able to bring to campus for public lectures. Dr. Rensink will conduct interviews with authors about new books or scholarship for dissemination as a podcast. New social media pages will be created for the podcast as well.

We will reevaluate and reassess our three-year commitment to collaborate with the Utah State Historical Society and the history department at the University of Utah to support the Thomas G. Alexander Editorial Fellowship at the *Utah Historical Quarterly* in recognition of Tom’s contributions to the Redd Center, as well as to Utah and western history. The center also signed an MOU with the *Journal of Mormon History* and the Mormon History Association for the duration of Jessie Embry’s term as editor, which ends in August 2023.

The center will continue building its digital history project, thereby promoting civic engagement and student research and generating historical content. This work engages students in mentored scholarly projects that generate resources for the study of the West. In 2022, the board approved discontinuing the Western Studies Minor to repurpose our student outreach efforts.

The Redd Center joins with the BYU Department of History, Africana Studies, American Indian Studies, the Anti-Human- Trafficking Club, the BYU Black Alumni Association, and the Native American Alumni Association to seek ways to end racism in our community. Rensink also chairs the BYU Slavery Project Steering Committee. The project involves student and faculty collaborators who study Indigenous and African American slavery connections in Utah Territory and possible benefits—direct and indirect—to the university, with recommendations on possible forms of acknowledgement. As a beginning step, the center signed an MOU with the BYU history department to co-sponsor the Ignacio García Scholarship for Indigenous and Students of Color.

The publication grant program will continue to provide funding to presses publishing scholarly books pertaining to the study of the Intermountain West.

The center will support a 2023 symposium on “The Life and Legacy of Juanita Brooks” at Utah Tech University.

The center will fund a Clarence Dixon Taylor Research Grant of up to \$1,500 to encourage and facilitate research about Central Utah (Utah, Carbon, and Wasatch Counties). The grant is named for a representative of the Taylor and Dixon families who established an endowment in memory of these families’ contribution to the economic development of Provo and central Utah.

The center will also hold an annual board meeting.

LECTURES, PRIZES, AND EVENTS

LECTURES

March 25: Gregory E. Smoak, History, University of Utah
Annaley Naegle Redd Lecture
“History at the Center(s) of the Weest”

October 6: William W. Tanner, Publisher of the Sons of Utah Pioneers’ flagship publication Pioneer magazine
Clarence Dixon Taylor Lecture
“Exploring the Settlement of Utah County”

November 3: Adam M. Sowards, Professor Emeritus of History, University of Idaho
William Howard and Hazel Butler Peters Lecture

“The Integrity of the Public’s Land: Turning Points on the Path toward a Democratic Landscape”

CO-SPONSORED LECTURES

January 26: Simon J. Bronner,

William A. Wilson Folklore Archives Founder’s Lecture

“A Resonant Background: Landscape, Region, and Makerspace in Folklore and Cultural Studies”

Co-sponsored with the William A. Wilson Folklore Archives

February 17: Fred E. Woods, Church History and Doctrine, BYU

“Bright Lights in the Desert: The Latter-day Saints of Las Vegas” Film Screening and Discussion

Co-sponsored with BYU Religious Education

November 18: Tiffany González, History, James Madison University

Co-sponsored with the BYU Department of History and BYU Global Women’s Studies

PRIZES

The Western Political Science Association awards the Charles Redd Award for Best Paper on the Politics of the American West. The 2022 prize of \$250 was presented to Mahina Tuteur, University of Hawai’i at Mānoa, for “The Hawaiian Land Hui Movement: Race, Property, and the Law in Territorial Hawai’i.”

The center sponsors two \$250 Beatrice Medicine Awards in American Indian Studies at the Native American Literature Symposium. In 2022, the Best Published Monograph award went to Lisa Tatonetti for *Written by the Body: Gender Expansiveness and Indigenous Non-Cis Masculinities* (University of Minnesota Press, 2022) and the Best Published Essay award went to Laura Furlan for “The Archives of Deborah Miranda’s Bad Indians” (Studies in American Indian Literatures, 2022).

The Rural American West Paper Competition award of \$500, awarded by the AAG Rural Geography Specialty Group every other year (odd years), was not given in 2022.

The Western Museum Association Award for Exhibition Excellence is sponsored by the Charles Redd Center. In 2022, the award of \$500 went to the Whatcom Museum for the exhibition “Many Wests: Artists Shape An American Idea.”

The Arrington-Prucha Prize is awarded by the Western History Association for the best article of the year in Western American Religious History. In 2022, the award of \$500 went to Eileen Luhr for “Pilgrims’ Progress: ‘Efficient America,’ ‘Spiritual India,’ and America’s Transnational Religious Imagination,” *Pacific Historical Review*.

The Jensen-Miller Award is awarded by the Western History Association for the best article in the field of women and gender in the North American West. In 2022, the award of \$500 went to Lina-Maria Murillo for “Birth Control, Border Control: The Movement for Contraception in El Paso, Texas, 1936–1940,” *Pacific Historical Review*.

Two Charles Redd Teaching Excellence Award were given in 2022, enabling schoolteachers to attend the Western History Association’s annual convention. The \$500 prizes were awarded to Matthew Todd Gragg (Capitol Hill High School, Oklahoma City, OK) and Liam Concannon (Notre Dame Academy, Hingham, MA).

The Charles Redd Teaching Excellence Award enabling a schoolteacher to attend the Western Literature Association’s annual convention was not given in 2022 but will resume for 2023. This award was last offered in 2019, the \$750 prize was awarded to Katharine Anthony for her instructional plan titled “Establishing Roots: Place-Based Learning in a Multicultural, Title I High School.”

The Charles Redd Center for Western Studies Award for the best general interest article of the year appearing in the *Utah Historical Quarterly* was awarded to Lisa Olsen Tait for “I Have Shot My Betrayer: the Trial of Amanda Olson, 1890.” (Spring 2021).

The Charles Redd Center–Phi Alpha Theta Book Award for the best book in Western American history of \$500 is given every other year and was not awarded in 2022. In 2019, it was awarded to Kristin Lee Hoganson for her book *The Heartland: An American History*.

The Clarence Dixon Taylor Prize of \$3,000 was not awarded in 2022. It was last given to the National Society of the Sons of Utah Pioneers *Pioneer* magazine, acknowledging their efforts in publishing two issues on Utah County in 2020. Another \$3,000 was distributed among the fifteen authors (approximately \$200 each) to recognize their scholarship on Utah County.

The center sponsors awards for the Mary Lou Fulton Conference poster contest dealing with the Intermountain West/Mountain West (the states of Utah, Idaho, Montana, Wyoming, Colorado, Nevada, New Mexico, and Arizona). This spring, first place was awarded to Autumn Welling for “A City Set on a Mine: Negative Health Effects of Mining on Utah Communities” and second place was awarded to Sophia Harris for “Investigating Characteristics of The Spanish Flu Pandemic (1918-1920) in Utah Mining Communities.” In fall 2022, first place was awarded to Sabrina Wong for “Liminal Belonging: The Role of Documentation Status in Shaping Utah Immigrants’ Sense of Belonging.” Second place was awarded to Kirsten Sanders and Abigail Henrie for “Investigating the Bioavailability of Toxic Heavy Metals in the Soil of Utah Parks in Salt Lake City, Utah.” Third place was awarded to Isaac Jordan for “Pottery Takes Flight.”

Two \$500 Charles Redd Center Awards were given at the 2021 Plant and Wildlife Sciences Graduate Research Conclave to Kaylee Draughon (oral session) and Kyle Cook (poster session).

Seven Charles Redd Center Awards PCB-AHA were given in 2022. The recipients were Donna Anderson, Eliana Buenrostro, Peter Hick, David Kerry, Hayden Nelson, Jenni Tiff-Ochoa, and Brendan Thomas.

In 2022, the center partnered with the BYU Department of History to contribute \$750 toward a scholarship, as well as several \$150 awards. The Ignacio Garcia Scholarship for Indigenous and Students of Color was awarded to Paul Guajardo and Gabrielle Segura (half tuition for each awardee). The Bertis L. and Anna E. C. Embry Award in Global Latter-day Saint History was awarded to Ellie Hancock for “The Ground Where Hares, Foxes, and Hounds Ran: The Missionary Work and Persecution of the Mormons in 1840s Britain,” the Eugene E. Campbell Award in Utah History was awarded to Makoto Hunter for “Secede and Come to Dixie: The Lost Cause, Community Identity, and White Supremacy in the ‘Secessions’ of Utah’s Dixie, 1987–1990,” the Fred R. Gowans Award in 19th C. American West History was awarded to Ruth Hardy for “Reimagining Indigenous Female Power: Inter-marriages in the North American Fur Trade,” the American Indian Studies Indigenous History Award was awarded to Colin Tompson for “Navajo Nation Self-Determinism,” and the co-sponsored William J. Snow Award in American West or Latter-day Saint History was awarded to Grace Soelberg for “Peculiar Students of a Peculiar Institution: A Historical Analysis of Racial Minority Students and Race Relations at Brigham Young University as Presented in the Banyan from 1911–1985.”

The center also sponsored awards for state National History Day competitions in Arizona, Colorado, Idaho, New Mexico, and Utah.

EVENTS

March 25; The Redd Center hosted a 50th anniversary jubilee at the Harold B. Lee Library.

May 19–21: The Redd Center co-sponsored the Railroads in Native America Gathering at Ogden Union Station.

October 12: The Redd Center sponsored the public history reception at the annual WHA meeting.

October 15: The Redd Center sponsored a 50th jubilee reception at the annual WHA meeting.

2022 REDD CENTER AWARDEES

Annalee Naegle Redd Assistantships

The Annalee Naegle Redd Assistantship is open to professors at Brigham Young University, who can then employ graduate and undergraduate students in a mentored learning environment. It provides students an opportunity to work closely with leading scholars in Western American Studies.

In 2022, the Redd Center awarded the following individuals:

Clifton Farnsworth, Civil and Construction Engineering, Brigham Young University, “Comparison of Infrastructure Asset Management Processes for Rural and Urban Populations in Utah”

Paul Frandsen, Plant and Wildlife Sciences, Brigham Young University, “Evaluating the Effect of Megafires in the West Using Environmental DNA”

Rollin H. Hotchkiss, Civil and Construction Engineering, Brigham Young University, “Assessing Dangers at Low-Head Dams in the American West”

Randy Larsen, Plant and Wildlife Sciences, Brigham Young University, “Mountain Lions (*Puma concolor*), Recreation,

and the Wildland–Urban Interface: Improving Conservation of an Iconic Species Native to the West—Year 2”
Reily C. Nelson, Biology, Brigham Young University, “Western Assassin Flies (Insecta: Diptera: Asilidae): Revision of the Genus *Proctacanthus* in the New World, with Special Reference to the *Philadelphicus* Species Group”
Steven L. Petersen, Plant and Wildlife Sciences, Brigham Young University, “The Response of Great Basin Bristlecone Pine to a Changing Climate”

Tom Smith, Plant and Wildlife Sciences, Brigham Young University, “Can the Identification of Novel Scents Improve the Census and Management of Carnivores of the Intermountain West?”

Total granted for 2022–2023: \$30,000

Annalee Naegle Redd Student Award in Women’s History

The Annalee Naegle Redd Student Award in Women’s History is given annually to an undergraduate or graduate student performing research on women in the American West.

In 2022, the Redd Center awarded the following individuals:

Chrissy Carlson, History, University of Central Oklahoma, “Beyond the Homestead: How Western Women Leveraged Commercial, Business, and Social Power into National Suffrage, 1870–1920”

Millie Tullis, English, Utah State University, “The Legacy of Utah Peepstone Women in Family Histories”

Total granted for 2022–2023: \$2,100

Charles Redd Fellowship in Western American History

The Charles Redd Fellowship in Western American History is designed to facilitate access to Western American manuscript collections in Special Collections and has been greeted with excitement and enthusiasm by researchers.

In 2022, the Redd Center awarded the following individuals:

Donna Doan Anderson, History, University of California, Santa Barbara, “America is in the Heartland: Land Policy, Immigration, and Rural Asian America from 1860 to 1950”

Evan Bonney, History, *Sciences Po Paris*, “Forests and Power in the United States Empire, 1891–1914”

Austin Clements, History, Stanford University, “Religious Origins of American Anticommunism”

Robert McMicken, History, University of Arizona, “‘Arizona is our Persia.’ Regional Boosters and Cultural Diversity in the late Nineteenth and early Twentieth-Century American Southwest”

Kristen Phipps, History, University of Nevada, Las Vegas, “Slaveries and the Old Spanish Trail”

Total granted for 2022–2023: \$7,200

Independent Research and Creative Works Award

The Independent Research and Creative Works Award is open to individuals who are not connected to an academic institution as a faculty member or student.

In 2022, the Redd Center awarded the following individuals:

Jennifer Champoux, “C. C. A. Christensen: Pioneer Artist”

John Dinger, “Idaho Territory and the End of Mormon Polygamy”

George R. Matthews, “Billy the Kid, Thomas Catron and the Santa Fe Ring”

Zak Podmore, “Glen Canyon Rises: The Death of Lake Powell and the Rebirth of the Colorado River”

Samantha M. Williams, “In their Own Words: Student Writings at the Stewart Indian School, 1890–1980”

Total granted for 2022–2023: \$4,000

John Topham and Susan Redd Butler Faculty Research Awards

The John Topham and Susan Redd Butler Faculty Research Awards are designed to illuminate some aspect of the American experience in Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and/or Wyoming.

In 2022, the Redd Center awarded the following Brigham Young University faculty:

Janalee Emmer, Museum of Art, Brigham Young University, “Maynard Dixon—Searching for a Home: Painted and Poetic Imagination in the American West”

Erika Feinauer, Teacher Education, Brigham Young University, “Ethnic identity and School Belonging for Pacific Islander High School Students in Utah”

Fred E. Woods, Church History and Doctrine, Brigham Young University, “Saints by State Website”

Total Granted for 2022–2023: \$8,000

In 2022, the Redd Center awarded the following off-campus faculty::

Andrew J Gulliford, History, Fort Lewis College, “Great Landscapes of the American West: BLM’s National Conservation Lands”

Fumi Arakawa, Anthropology, New Mexico State University, “Coal Bed Village Excavation in Montezuma Canyon of the Southeast Utah”

John Dwight Hines, Literary Arts and Social Justice, Point Park University, “Rural/Small-Town Gentrification in COVID Times”

Sojung Lim, Sociology and Anthropology, Utah State University, “Gender Inequality in Higher Education in Utah”

Clayton Whitesides, Anthropology and Geography, Coastal Carolina University, “Long-Term Monitoring of Musk Thistle (*Carduus nutans*) on the Wasatch Plateau of Central Utah”

Total Granted for 2022–2023: \$10,000

Public Programming Award

The Public Programming Award is open to any organization that is planning a conference, museum exhibit, or lecture series focusing on Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and/or Wyoming.

In 2022, the Redd Center awarded the following organizations:

American West Center at the U of U, “Reflections on Scholarship and Indigenous Studies on the Meanings of ‘Lamanite’”
Better Days, “Utah Women Making History Event”

Hal Crimmel, “Utah’s Air Quality Issues: Problems and Solutions”

Journal of Mormon History, “*Journal of Mormon History* Book Review Editor/Copy Editor”

Marissa Ortega-Welch, “Reimagining Wilderness Podcast”

Montana Historical Society, “Montana History Conference”

Mormon History Association, “Welcoming Reception, Art Exhibit and Concert for Annual Mormon History Association Conference”

Rocky Mountain American Religion Seminar, “Rocky Mountain American Religion Seminar: Indigenous Religions Series”

Springville Museum of Art, “Utah Art at Mid-Century Exhibition”

Utah Humanities, “The Charles Redd Center for Western Studies Author”

Utah State University MESAS Program, “Intermountain Memories: Boarding School Music and Stories”

Western Literature Association, “2022 Western Literature Association Conference: Palimpsests and Western Literatures”

Wyoming State Museum, “Education Trunks with the Wyoming State Museum”

Total granted for 2022–2023: \$29,100

Research Award for Upper Division and Graduate Students

The Summer Awards for Upper Division and Graduate Students helps promising students begin serious research on Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and/or Wyoming.

In 2022, the Redd Center awarded the following Brigham Young University students:

Isabella Marie Errigo, Plant and Wildlife Sciences, Brigham Young University, “Moving beyond Morphology: Using DNA Metabarcoding to Better Understand Biodiversity Change”

Teagan Mulford, Biology, Brigham Young University, “Taxonomy and Phylogenetics of the Robber Fly Genus *Proctacanthus* (Insecta: Diptera: Asilidae): Inhabitants of Sand Dunes in Western North America”

Hanna Seariac, Comparative Studies, Brigham Young University, “Magical Mormon Women”

Joseph Andan Sheppard, School of Family Life, Brigham Young University, “Project M.E.D.I.A.; Specific study: ‘Where Did You Learn that?’: Media’s Socialization of Children and Families”

John Paul Szabo, Design and Photography, Brigham Young University, “111th Meridian West: A Photographic Exploration”

Total granted for 2022–2023: \$6,000

In 2022, the Redd Center awarded the following off-campus students:

Sophie S. Alves, Mexican American Studies, University of Arizona, “A Wall of Silence: Denaturalizing Anti-Immigrant Discourses about Mexican Immigrant Women and their Babies”

Shelby Byerly, Biology, Northern Arizona University, “Juniper Dieback in Northern Arizona”

Hailey Doucette, History, Colorado State University, “Created by Copper: Superior, Arizona’s Connection to the Mining

Industry”

Paige Figanbaum, History, University of Nevada, Las Vegas, “Competing Desert Landscapes: The Relationships between Environmental Perception, the Nevada Tourism Industry, and Land Management”

Matt Green, History, University of Utah, “The Culture & Commerce of Risk in Backcountry Skiing”

Edward Hill, Forest and Rangeland Stewardship, Colorado State University, “Live and Dead Canopy Effects on Juvenile Pinyon Pine Vigor across Tree Sizes”

William C Holly, History, Arizona State University, “For the Benefit of the Mountain’: Legal and Cultural Conflicts over Development on Arizona’s San Francisco Peaks, 1968–1978”

Jaime Jacobsen, Anthropology, Montana State University, “Towards Transnationalism: Exploring Venezuelan Immigration in the Intermountain West through Co-created Documentary”

Kyle Kittelberger, Biological Sciences, University of Utah, “Population Dynamics, Community Ecology, and Phenology of Migratory Birds in Southeastern Utah”

Mark Kreider, Forest Management, University of Montana, “Effects of Immediate Post-Fire Climate on Longer-Term Forest Development Trajectories”

Mary Ludwig, History, University of Nevada, Las Vegas, “Incarcerated Nations: Removal and Confinement on Indigenous Lands: Indian Policy, Internment, and Incarceration on the Colorado River Indian Reservation, 1865–1952”

Kimberly Sheets, History, Washington State University, “The Social Lives of Animals: Elucidating Social Identity from Zooarchaeological Deposits in the Homol’ovi Settlement Cluster, Northeastern Arizona”

Bonnie Swenson, English, Utah State University, “No One Died?: Uncovering the Voices of the Women of the Hole-in-the-Rock Expedition”

Brian Wright, History, Princeton University, “Conquest on Paper: Archives and the American West”

Total granted for 2022–2023: \$16,500

Mollie and Karl Butler Young Scholar Award

The Mollie and Karl Butler Young Scholar Award acknowledges outstanding academic promise of faculty members at the assistant or associate professor levels at Brigham Young University, based upon record of research, teaching, and university citizenship. The award carries with it an annual \$3,000 salary stipend and \$5,000 research support for three consecutive academic years.

In 2022, the Redd Center awarded the following individual to serve the term as noted:

Benjamin Abbott, Ecology, 2022–2025

Continuing Young Scholars:

Scott Sanders, Sociology, 2019–2022

Michael Taylor, English, 2020–2023

David-James Gonzales, History, 2021–2024

Publication Grants

The Redd Center offers publication grants to presses to help offset the costs of publishing Intermountain West titles. Grants permit presses to improve the quality of the publication and/or make the book more affordable.

In 2022, the Redd Center awarded a publication grant to the following press:

The Montana Historical Society for Michael K. Johnson’s *A Black Woman’s West: The Life of Rose B. Gordon*

The University of Oklahoma Press for Michelle K. Berry’s *Cow Talk: Work, Ecology, and Range Cattle Ranchers in the Postwar Mountain West*

The University of Nebraska Press for Yolanda Youngs’s *Framing Nature: The Creation of an American Icon at the Grand Canyon*

Total granted for 2022–2023: \$9,000

Clarence Dixon Taylor Award

The Clarence Dixon Taylor Award recognizes outstanding scholarship on Central Utah (Utah, Carbon, and Wasatch Counties). Nominations may include theses, books, papers, monographs, articles, symposiums, dramatic presentations, lectures, etc. from students and faculty of Brigham Young University, other institutions, or independent scholars. Significant scholarship will be recognized with a maximum of \$5,000 awarded for major achievements.

In 2022, the Redd Center was unable to find a publication for this award.

Clarence Dixon Taylor Research Grant

The Clarence Dixon Taylor Research Grant is named for a representative of the Taylor and Dixon families who established an endowment in memory of these families' contribution to the economic development of Provo and central Utah. The grant provides up to \$1,500 to encourage and facilitate research about central Utah (Utah, Carbon, and Wasatch Counties).

In 2022, the Redd Center awarded the following individual:

Alyssa Russell, History, Duke University, "Economic Development at What Cost? The Fantus Company, Financial Subsidies, and Working-Class Communities, 1919–1999"

Total granted for 2022–2023: \$1,500

Interdisciplinary Studies Grants

The Redd Center offers interdisciplinary studies grants of up to \$10,000 to groups of three or more scholars collaborating from three or more fields on a topic regarding the Intermountain West.

In 2022, the Redd Center awarded an interdisciplinary studies grant for the following proposal:

Keely Song Glenn (Dance), Ben Abbott (Ecology), and Luke Gibson (Design), Brigham Young University, "Within the Lake"

Total granted for 2022–2023: \$10,000

Visiting Fellow Program

The Visiting Fellow program is open to university faculty of all ranks, independent scholars, freelance authors, and other public intellectuals who are working on a significant article- or book-length study. The visiting fellow may be in residence for two to four months during either the fall semester (September–December) or the winter semester (January–April). The center provides a stipend of \$2,500 per month of residency, office space, a networked computer, campus library and activity privileges, and limited photocopying and printing.

In 2022, the Redd Center awarded the following individual:

Ryan A. Davis, Hispanic Studies, Illinois State University, Winter 2023

Total granted for 2022–2023: \$10,000

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PHIL S. ALLEN, PLANT AND WILDLIFE SCIENCES, BRIGHAM YOUNG UNIVERSITY, "SUB-ALPINE WILDFLOWER MEADOWS AS A TEMPLATE FOR WATER-CONSERVING LANDSCAPE DESIGN"

RICHARD A. GILL, BIOLOGY, BRIGHAM YOUNG UNIVERSITY, "BIOCRUST CONTROLS OVER REGIONAL CARBON CYCLING ON THE COLORADO PLATEAU"

RANDY LARSEN, PLANT AND WILDLIFE SCIENCES, BRIGHAM YOUNG UNIVERSITY, "MOUNTAIN LIONS (PUMA CONCOLOR), HUMAN RECREATION, AND THE WILDLAND-URBAN INTERFACE: IMPROVING CONSERVATION OF AN ICONIC SPECIES NATIVE TO THE WEST"

RILEY NELSON, BIOLOGY, BRIGHAM YOUNG UNIVERSITY, "THE BEE-KILLERS: TAXONOMY AND PHYLOGENETICS OF THE ROBBER FLY GENUS PROCTACANTHUS (INSECTA: DIPTERA: ASILIDAE) WITH SPECIAL REFERENCE TO THOSE OF WESTERN NORTH AMERICA"

SAM ST. CLAIR, PLANT AND WILDLIFE SCIENCES, BRIGHAM YOUNG UNIVERSITY, "WILDFIRE AND DROUGHT IMPACTS ON PLANT INVASIONS IN THE WESTERN UNITED STATES"



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Phil S. Allen	Email Address:	phil_allen@byu.edu
Address:	2123 LSB Provo , Utah 84602	Phone Number:	801-422-24221
Project Title:	Sub-alpine wildflower meadows as a template for water-conserving landscape design		
Organization/ Institution:	BYU Plant and Wildlife Sciences	Submission Date:	12/12/2022

Name of Award Received:

Annalee Naegle Redd Assistantship Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The central research question for this project involved whether native plants from sub-alpine meadows in the Intermountain West can be used to create water-conserving alternatives to lawns. Funds from the Charles Redd Center were used to hire undergraduate students to support the research.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

1) We created a database of 34 native plants identified in our meadow located near Grove Creek Canyon, six miles above Pleasant Grove Utah (see proposal for details). This includes a timeline of flowering and identifies plant features that will be useful for design purposes.; 2) We completed and published key studies with a subset of species to determine likelihood that they can be successfully grown at lower elevations; 3) Under the supervision of M.S. degree student Alyssa Joy Brown, 4undergraduate students were mentored on this research. They have each succeeded in preparing for meaningful careers or graduate studies as a result (see "Comments" section below).

Publications and/or presentations based on your Redd Center research or program:

Brown**, A.J. and P.S. Allen (2023, In Press). Elevation impact on seed germination requirements for two Asteraceae species. Native Plants Journal (Accepted October 26, 2022).

Allen, P.S. and A.J. Brown**. 2022. Sub-alpine wildflower meadows as a template for water-conserving landscape design in the Western United States. Acta Horticulturae DOI 10.17660/ActaHortic.2022.1345.26 .

Brown**, A.J. and P.S. Allen. 2022. Commonplace or commonly replaced? Presence and population distribution of *Balsamorhiza hookeri* var. *hispidata* in Utah compared to historic records. Acta Horticulturae DOI 10.17660/ActaHortic.2022.1345.42 .

**indicates student

Next steps for your research process:

BYU chose to discontinue the long-term relationship with the The USDA Forest Service Shrub Sciences Laboratory located adjacent to campus. Since the Lab was uprooted and moved to Cedar City, the drone monitoring studies will be completed at a later date (and probably different location).

Future plans for publication and/or presentations:

Three peer-reviewed papers are published or in press. An additional publication, dealing with seed germination and propagation of wildflowers, will be submitted to the peer-reviewed journal "Native Plants" in 2023.

Comments:

Four undergraduate students were mentored on this project: Abby Kjar ('22, professional landscape designer), Ashlee Weight ('24, two-time national NALP scholarship recipient), Adam Boden ('22, graduates in December with two excellent employment offers) and Sarah Krenzer ('23, successful internship with Davey Resource Group in Minnesota, focusing on ecological restoration). Alyssa Brown, also mentored on the project, was the graduate student that supervised undergraduate efforts. Alyssa will have a total of six refereed journal articles from her BYU research, including four that were supported by funding from the Charles Redd Center—THANK YOU! Alyssa received a prestigious fellowship to complete her PhD at Columbia University, which she began in August 2022.



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Gill Report for *Biocrust Controls over Regional Carbon Cycling on the Colorado Plateau*.

Dryland ecosystems comprise over 40% of terrestrial landcover and nearly 35% within the United States, making them key ecosystems in many global and local biogeochemical processes (Belnap 2013, Wertin et al. 2017). Drylands support a diversity of native desert flora and fauna, contribute to agricultural production, and are home to essential biological soil crusts which play an essential role in carbon sequestration (Reynolds et al. 2006, Thomey et al. 2011). Drylands support other anthropogenic activities such as providing rangelands for livestock and areas for recreational use (Bestelmeyer et al. 2013, Bestelmeyer et al. 2015, Whitney et al. 2017, Duniway et al. 2019). The vegetative patterns and community structure are essential to the productivity and function of drylands, and current climate stress has already shifted historical patterns. Understanding what current management practices and future climate projections may affect the balance comprising the landscape is key to predicting how drylands may become less productive, both ecologically and for human use.

Future climate projections show an increase in temperature and decrease in precipitation, resulting in the prevalence of more intense and prolonged droughts across the southwest US (Wertin et al. 2012, Zelikova et al. 2013, Wertin et al. 2017, Winkler et al. 2019). Cayan et al. contextualize the current drought of the 21st century by comparing it to the severe dry periods throughout the last millennium. With rising aridity, issues like increased plant mortality (Munson et al. 2011a, Munson et al. 2011b), increased wildfires (Abella 2010, Bowman 2015, Horn et al. 2015, St Clair et al. 2016, Gill et al. 2018), and the expansion of invasive species present many concerns (Concilio et al. 2013, Bishop et al. 2019). This cascade of negative climatic effects will have consequential transformations to the landscape and vegetative patterns of the system.

Because of the important role dryland ecosystems play, extensive monitoring of key ecosystems components like vegetation, soil, and biocrusts will provide an understanding of the role and health of drylands. These indicators of productivity then allow monitoring of how climate change, human-land use, and natural variations might affect dryland ecosystems in the future. By knowing where the ecosystem currently operates and how future scenarios will specifically affect those operations, we can make more informed decisions about how to best manage the land to prevent any loss of function or diversity.

Because of the prevalent terrestrial landcover, dryland ecosystems are a major regulator of global carbon sequestration. The ecosystem components that drive this service are not fully understood, but biological soils crusts (biocrusts) may be key components to promoting increased carbon sequestration into soils (Duran et al. 2021). Biocrust have an estimated cover of up to 70% of dryland ecosystems, however future projections show the potential loss of 25 – 40% cover due to anthropogenic climate change and human land use (Rutherford et al. 2017, Rodriguez-Caballero et al. 2018). This may lead to several other issues including dust emissions, increased albedo, alterations in geochemical cycling (decreased carbon uptake), and further degradation of rangeland soils (Rutherford et al. 2017). Besides overall coverage loss, biocrust communities (comprised of microbes, mosses, and lichens) are susceptible to change. The composition of these micro communities helps determine function and productivity. Biocrust communities are complex networks of different organisms. These communities are often comprised of lichens, mosses, different cyanobacteria, fungi, and algae. While timing of

successional states and different ecosystem function (nitrogen fixation, water retention) may help to differentiate these different organisms within biocrust cover (Belnap 2013), these cover organisms also have different responses to climate conditions, physical disturbance, and CO₂ behavior. Biocrusts and their microbiota are facing a massive shift from historical function and cover and could cause major repercussions for drylands.

Dryland ecosystems are largely characterized by patches of exposed soils and groups of plants, commonly referred to as “islands of fertility”. This structure of fertile islands provides a framework to understand dryland functions on scales from plants and soils to the entire landscape (Okin et al. 2015). Some defining characteristics of these islands are their impact on temperature regulation and light availability (due shading), nutrient availability (potassium, phosphorous, overall soil organic carbon from litter accumulation), and soil water content (Wardle et al. 2009, Darby et al. 2010, Allen et al. 2011). These abiotic characteristics also largely impact the microbial community within biocrusts, specifically by allowing soil microbes to be more abundant and diverse underneath fertile islands. These unique traits of islands of fertility create an interesting contrast to bare soil and allow for the opportunity to explore how biocrusts may differ in productivity and carbon exchange across a dryland landscape.

Seasonal climate patterns, specifically wetting events, have a large impact on biogeochemical cycling especially within biocrust activity. Overall decreases in seasonal rain have shown loss in biocrust photosynthetic biomass, cyanobacterial diversity, and overall crust cover (Reed et al. 2012). The phenomenon known as the Birch Effect refers to when dry summer soils are wetted by an isolated precipitation event causing a burst of decomposition, respiration, and release of CO₂ (Birch 1958, Vance and Chapin 2001, Lang et al. 2009, Koranda and Michelsen 2021). This Birch Effect may drive responses to summer precipitation events during prolonged droughts and could turn biocrusts into major carbon sources, rather than carbon sinks (Miralles et al. 2018). Reversing the carbon sink services of biocrusts could have larger implications for dryland ecosystems’ role in climate change. During the current drought that Moab is experiencing, this allows a timely opportunity to monitor biocrust response to seasonal precipitation events in an in-situ setting.

While previous studies have examined controls over crusts under experimental conditions, no work has been done to understand the fine scale (hourly and daily changes) controls over production and respiration in a native, contemporary setting. Furthermore, no fine scale monitoring has looked at native biocrust behavior between wetting events, and the interaction between temperature and soil moisture. In this chapter, we implement high resolution automated gas exchange chambers installed at a field site in Moab to record hourly measurements of CO₂ efflux, soil temperature, soil moisture, and other meteorological data. We hypothesize that annual and seasonal variation of biocrust CO₂ flux will correlate with the temperature and soil moisture. The treatment of our study is spatial location within dryland landscape (underneath shrubs or inter-shrub space) to understand how plant presence correlates with soil microclimate variation (a crust’s proximity to an “island of fertility”). This project is the first to connect carbon and soil environmental conditions by measuring a high-resolution data set of changes in temperature, moisture, and carbon. With this data, we hope to identify patterns in how microclimate changes might drive changes in carbon uptake and loss across spatial distributions of crusts.

Specific Aims & Hypotheses:

1. Explain annual variation of biocrust CO₂ flux, on an hourly scale, using biological and biophysical drivers

Hypothesis 1: We hypothesize that CO₂ patterns will fluctuate on an hourly basis due to diurnal patterns of heating/cooling, and photosynthetic dependability on light.

2. Determine how proximity to “islands of fertility” affect the variation of biocrust carbon dynamics within a landscape

Hypothesis 2: We hypothesize that interspace crusts will experience less variation in microclimate, and therefore be more consistent in carbon uptake and loss, especially in response to seasonal moisture events. Collectively, we hypothesize that fewer shrubs in dryland ecosystems will lead to less carbon uptake and increased carbon release.

3. Determine how boundary conditions and pulse/press events affect variation in biocrust carbon dynamics across differing landscape conditions

Hypothesis 3: We hypothesize that pulse moisture events during a press drought will lead to large CO₂ emissions in conjunction with the birch effect within biocrust soils.

Material and Methods:

While this study is applicable to dryland ecosystems on a global scale, our specific study site for the experimental setup is near Moab, Utah and focuses on blackbrush plant communities and soils with moderately disturbed biological soil crusts Colorado Plateau. We hope to scale our intensive sampling to areas including Canyonlands National Park, Arches National Park, and the sandstone dominated regions of the Colorado Plateau

Initial deployment of experimental system:

The first step was installing the LI-8100 with 8 automated gas exchange chambers in Moab. These chambers were placed on intermediately disturbed biocrusts in two environmental conditions (adjacent to shrubbery and within shrub interspace). The experimental design was deployed in the end of 2020 and the addition of a cellular modem in 2021 permitting hourly measurements to be downloaded remotely. Data was collected weekly and added to analyses to monitor the different responses over time between spatial treatments. Additionally, specific weeks (between winter and summer seasons) and specific days (following monsoons or heavy precipitation) are isolated in analysis to monitor how these crusts respond to natural climate variations.



Photo 3: The long-term chamber setup in Moab, UT.

Current Progress:

The chambers were installed at a site in Moab in October of 2020 and ran through August of 2022. They have now been brought in from the field for cleaning and calibration while data is being processed and analyzed. Final analysis and manuscript preparation will be completed in Winter 2023. By having a better understanding of how biocrusts behave in an in-situ environment, accurately tracking their carbon efflux or sequestration to climate conditions becomes more accurate. Additionally, having a carbon response curve to temperature, moisture, and spatial relationships to vegetation provide the opportunity to map larger areas with scaled-up projections derived from the high-resolution data collected. If a given amount of carbon is released from biocrusts directly under shrubs, we can implement GIS methods to map out larger landscapes that fit these conditions to create more accurate carbon modeling for dryland ecosystems.



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Randy Larsen	Email Address:	randy_larsen@byu.edu
Address:	4105 LSB PROVO, UT 84602	Phone Number:	8014222322
Project Title:	Mountain Lions (<i>Puma concolor</i>), Human Recreation, and the Wildland-Urban Interface: Improving Conservation of an Iconic Species Native to the West		
Organization/ Institution:	BYU	Submission Date:	10/15/2022

Name of Award Received:

Annalee Naegle Redd Assistantship Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

In Fall of 2021 and Winter of 2022, we commenced a long-term project with the Utah Division of Wildlife Resources, Utah Mountain Lion Conservation, Utah Hound Association, and Brigham Young University to further understanding of cougars and how they use the urban interface. During this first year, we captured 26 unique mountain lions and placed GPS transmitters on them. This number far exceeded our most optimistic forecasts and was possible due to an extremely dedicated team of researchers. These GPS collars collect a location every two hours with an expected battery life of just over four years and so our success during the first year will provide valuable data over the next four years. In addition, thanks to support from the Redd Center, we were able to involve undergraduate students in the capture work, but also subsequent investigation of habitat selection including use of the urban interface and prey selection. Undergraduate students have visited hundreds of locations where cougars with GPS collars killed something to eat in order to document prey selection along the urban interface for this species. Year one has been a resounding success and we are very grateful for the support from the Redd Center. THANK YOU!

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

We used Redd Center funds to support mentoring of undergraduate students which also greatly magnified our ability to locate mountain lions without GPS collars (for subsequent capture), to capture located cougars, and to then collect data on habitat use and prey selection along the urban interface. Use of remote cameras placed and maintained by undergraduate students along the Wasatch front from Salt Lake City to Nephi allowed us to find mountain lions without GPS collars and successfully capture 26 of them far exceeding our most optimistic expectation. From the GPS collars on these animals and subsequent investigation of prey items consumed, we have learned a great deal. First, with only a few exceptions, collared animals have mostly avoided human structures and landscapes along the Wasatch front. Additionally, to date, they have only killed and consumed wild animals (primarily mule deer) and we have no evidence of mountain lions with GPS collars killing or consuming livestock or pets along the urban interface. Our focus this first year has been capture of a reasonable sample of mountain lions and we expect to learn much more in subsequent years.

Publications and/or presentations based on your Redd Center research or program:

This research is in the initial year and several years will be required to collect enough data for publication. We are planning, however, to make a presentation in March of 2023 highlighting the first year of this work at the Utah Chapter of the Wildlife Society Meetings. This presentation will be given by one of our outstanding undergraduate students (Kendra Billman). We will be sure to share the presentation with the Redd Center once complete in March.

Next steps for your research process:

Our next steps in year two include continued capture of additional mountain lions. Given our success with capture of 26 during the initial year, we have raised our goal to 40 total. In addition, the GPS collars on each of the captured mountain lions will collect a location every two hours for just over four years. We will be using this information to understand patterns of habitat selection and prey selection along the urban interface.

Future plans for publication and/or presentations:

We expect to publish this research, but it will take several years of data collection (minimum of three) to produce something that is publishable. During that time, we will be making presentations at professional meetings such as the annual meetings of The Wildlife Society (primary professional organization for wildlife biologists). Our first presentation will be given in March of 2023 and we will be happy to share the presentation with the Redd Center.

Comments:

This first year has been an amazing success and we are so grateful for the support from the Redd Center. This support has allowed us to magnify our efforts by hiring undergraduate students which has allowed us to find, capture, mark (with GPS collars), and monitor 26 unique mountain lions along the Wasatch front. Some of these experiences have been life changing for the students and will help them acquire the skills and experience needed to reach their career goals. THANK YOU!



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	C. Riley Nelson	Email Address:	rileynelson@byu.edu
Address:	Department of Biology, 4102 LSB PROVO, UT 84602	Phone Number:	8018222442
Project Title:	Western Assassin Flies (Insecta: Diptera: Asilidae): Revision of the genus Proctacanthus in the New World, with special reference to the Philadelphicus species group		
Organization/ Institution:	Brigham Young University	Submission Date:	11/28/2022

Name of Award Received:

Annalee N. Redd Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

My graduate student Teagan Mulford and I, used the funds from the 2022 Annalee N. Redd Award and another 2022 award for graduate students from the Redd Center to travel and visit collecting spots in Utah, Arizona, Florida, New Mexico, Colorado, and New Jersey to get specimens of the robber fly genus Proctacanthus we are studying. We were fortunate to be able to collect fresh specimens of several rarer species for the DNA analysis which will be done soon. While on these trips we contacted numerous fly researchers that were also able to send us freshly caught specimens. We were also able to hire an undergraduate student, Carson Siebert, to photograph many of the species in the laboratory. We will (and have already!) use these photographs in the publication that we expect to submit later in 2023.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

We collected four species we would never have been able to collect without the help of the Redd Center funds and many other species that will enhance our publication. We would never have been able to collect without the help of the Redd Center funds. These species will help us answer key questions of morphological and molecular relationships needed for the keys and phylogenies in our planned publication. We were also able to see, in person, that several species of Proctacanthus can overlap in time and space on their habitats. This microhabitat sharing has not previously been so clearly documented. We also learned that two species, *P. gracilus* and *P. heros* truly are rarely encountered. Teagan visited sites known to harbor these species, but was not able to find them. On a cheerier note, she made friends on these trips with persons that will be able to search the habitats even more extensively as they live nearer these sites. Teagan's trip to the desert southwest showed her firsthand the microhabitats these flies use so she can include those photographs and impressions in our publication.

Publications and/or presentations based on your Redd Center research or program:

Teagan presented a preliminary report of the taxonomy and distribution of Proctacanthus at the meetings of the North American Dipterists Society in New Jersey in June. She met specialist colleagues there and recruited them to help with the project.

Teagan also presented at the November meetings of the societies in Vancouver, Canada, including the Annual Meeting of the Entomological Societies of America and of Canada. At those meetings she presented the up to the minute distributions of Proctacanthus based on over 11,000 records. I was present with her at both these presentations. Again, we were able to contact folks to help us with the freshest possible specimens needed for the molecular work. Our attendance at these work meetings would not have been easily accomplished without help from the Redd Center.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Thank you for the support our work is progressing well. Our team in the Nelson lab is working well on our projects concerning the Proctacanthus of the West. Please give my regards to the Redd family for their generous help.



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BYU Redd Center
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Award Report

Name:	Sam St. Clair	Email Address:	stclair@byu.edu
Address:	4124 LSB Provo, UT 84602	Phone Number:	8017177829
Project Title:	Wildfire and drought impacts on native plant and animal communities and its consequences for plant invasions in the western United States		
Organization/ Institution:	Brigham Young University	Submission Date:	10/13/2022

Name of Award Received:

Annaley Naegle Redd Assistantship

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

We as a project team used the funds to collect and process another two years of data (six total) from our experimental plots at Lytle Ranch and Rush Valley that experimentally tested how repeat fires and drought affect plant invasions and the build up of fine plant fuels that trigger fires in our western deserts. A second unexpected study emerged from the project examining how fires and cattle activity can increase soil nitrogen levels that promote invasion and subsequent fire in the Mojave Desert.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Funds were used to hire student research crews to conduct the plant surveys and to rent rental cars since each student had to travel in their own vehicle because of covid. The funding came at just the right time because 2020 was a record drought. The data show an almost complete loss of plant cover in 2020 in response to the drought with a strong resurgence of cheatgrass in 2021, particularly in experimental burn plots and poor recovery of native grasses and forbs. These results suggest that in addition to repeat fires, increasing drought frequency is likely to exacerbate annual grass invasion and fire frequency. The second study examined how post-fire conditions on BLM land in the Mojave Desert and cattle activity increase soil nitrogen that promotes the spread of invasive grasses.

Publications and/or presentations based on your Redd Center research or program:

Rebekah L. Stanton, Baylie C. Nusink, Kristina L. Cass, Tara B.B. Bishop, Brianna Woodbury, David Armond, Samuel B. St. Clair. Fire frequency and drought effects on plant community characteristics in the Great Basin and Mojave Deserts of North America. *Fire Ecology*; Submitted for review 10/10/22

Elijah A. St. Clair, S. Isaac St. Clair, Bryn E. St. Clair, Seth B. St. Clair, Grace E. St. Clair, Daniel A. St. Clair, Samuel J. Lowry, Samuel B. St. Clair

European exotics drive a North American invasion: fire legacies on soil resource gradients and patterns of annual brome invasion. *Oecologia*; submitted for review 10/11/22

Sam St. Clair European exotics drive a North American invasion: fire legacies on soil resource gradients and patterns of annual brome invasion. Western North American Climate Meeting, Invited Presentation, December 2021

Sam St. Clair European exotics drive a North American invasion: fire legacies on soil resource gradients and patterns of annual brome invasion. Ecological Society of America Annual Meeting. Montreal Canada August 2022.

Next steps for your research process:

The data have been analyzed and two papers have been submitted for publication. The next steps are to continue through the review process until the two papers are published.

Future plans for publication and/or presentations:

In addition to seeing the two papers through to publication, two oral presentations have been given. I've also integrated the data and experimental study into three of my courses as a case study for hypothesis development and data analysis practice for my students.

Comments:

Thank you for your continued support of our research program! We have used the funds to support the mentored research experience of many undergraduate students at at BYU and to publish numerous paper on drivers of change the deserts and forests of the western US. As in the past, I'm always happy to visit classes and give presentations based on our most recent research project results and highlight the contributions of the students working on the projects.



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ANNALEY NAEGLE REDD STUDENT AWARD IN WOMEN'S HISTORY

CHRISSY CARLSON, HISTORY, UNIVERSITY OF CENTRAL OKLAHOMA, "BEYOND THE HOMESTEAD: HOW WESTERN WOMEN LEVERAGED COMMERCIAL, BUSINESS, AND SOCIAL POWER INTO NATIONAL SUFFRAGE, 1870-1920"

MILLIE TULLIS, ENGLISH, UTAH STATE UNIVERSITY, "THE LEGACY OF UTAH PEEPSTONE WOMEN IN FAMILY HISTORIES"



BYU Redd Center
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Award Report

Name:	Christine R Carlson	Email Address:	ccarlson5@uco.edu
Address:	19420 Sportsman Rd. Edmond, OK 73012	Phone Number:	4055090360
Project Title:	Domesticity or Public Power?: How Women Built Economic, Advocacy and Marital Systems in turn of the 19th Century American West		
Organization/ Institution:	University of Central Oklahom	Submission Date:	10/05/2022

Name of Award Received:

Annalee Naegle Redd Student Award in Women's History

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

With my \$1250 award from the Charles Redd Center, I conducted research in Utah and Idaho to complete my master's thesis: Domesticity or Public Power?: How Women Built Economic, Advocacy and Marital Systems in the turn of the 19th Century American West. My thesis compares the lives of Cora Diehl Harvey of Oklahoma, Leah Maria Gorton of Oklahoma and Margaret Caine of Utah to illustrate how women in the west built new western communities in the 1880s-1910s. My research will expand understanding about women's broad participation in and contribution to the economies of western towns, the way they leveraged power in social groups advocating for important causes including woman suffrage, and the ways they took advantage of broader marriage and divorce social mores and legal frameworks to exercise their own power in forming and dissolving marital relationships.

The focus of my Redd Center funding was to allow me to expand my research on Margaret Caine and Leah Gorton, and the funds went towards airfare, car rental and hotel accommodations for my June 2022 research trip. I traveled to Provo, Utah to work at the BYU Harold B. Lee Library, where I read about the Caine family in both manuscripts and rare books. I worked in Logan, Utah at the USU special collections, where I learned about the ways Margaret exerted autonomy over her marital choice. I traveled to Boise, where I learned about Leah Gorton's participation in the Rebekah Lodge in the Minnie S. Dunton papers. I also traveled to Soda Springs, Idaho where I visited the Soda Springs Public Library, where I discovered a treasure trove of local and non-printed area research, which revealed the importance of the Gortons in the towns founding and early community building.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The most important discovery made about Margaret Caine through this research trip was that I was actually researching two Margaret Caines: Margaret Nightingale Caine, wife of Senator John T. Caine and first president of the Utah Woman Suffrage Association, and her daughter-in-law Margaret Ann Caine, secretary of the UWSA, the Utah Women's Silk Association and the Salt Lake Stake Relief Society, and organizer of the Mormon exhibit at the Chicago World's Fair in 1893. This was discovered in a series of old, rare print books in the Americana section of the BYU Library. This allows me to expand my understanding of how these two related women each contributed to Utah women's growing influence over community structures. I also dove into Margaret and her spouse Alfred's letters during courtship, and discovered that Margaret's father tried to slow or stop their courtship. I learned that Margaret found her own autonomy in her marriage choice, significant in a society where marriage was an essential element of social and religious structure.

I discovered that Leah Gorton was the founder and naming member of her chapter of the Rebekah Lodge, and discovered the conventions she attended and offices she held. I was surprised to learn how integral she was to several social and advocacy groups. I also learned about

her importance to the community as one of its pioneers, and her economic influence through her family's supply company touched the entire town.

This archival research is central to the way I can move forward to tell these western women's stories.

Publications and/or presentations based on your Redd Center research or program:

I presented early research about Leah Gorton at the 2022 Mormon History Association Symposium. I will continue to add to that presentation with what I learned on my research trip. I am currently working on completing my thesis, and plan to submit individual chapters on each of the women I researched to journals focusing on the west, women's history and Mormon history.

Next steps for your research process:

I am currently in Utah finishing research at the University of Utah's special collections, looking at the correspondence between the Caine's regarding the silk industry in Utah. I continue adding my research to my chapter on Leah Gorton, and will complete Margaret's story by the end of the year. My thesis defense will be conducted in Spring 2023.

Future plans for publication and/or presentations:

I hope to be able to expand my presentation on Leah and add my research on Margaret Caine for future presenting or publication.

Comments:

Thank you so much for the generous grant that made possible a new depth to my study of western women's lives and the surprising ways they influenced their communities.



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Award Report

Name:	Millie Tullis	Email Address:	millie.tullis@gmail.com
Address:	465 W 200 S Basement Smithfield, UT 84335	Phone Number:	4357577942
Project Title:	"The Legacy of Utah Peepstone Women in Family Histories"		
Organization/ Institution:	Utah State University	Submission Date:	10/11/2022

Name of Award Received:

Annalee Naegle Redd Student Award in Women's History

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

With the funds provided by the Annalee Naegle Redd Student Award in Women's History, I was able to conduct three interviews with descendants of "the Logan peepstone woman," Elvine Petersen, as well as one interview with Nadine McCombs Hansen. Hansen shared a family story about her grandmother, Lydia Duella Nelson, visiting Elvine Petersen to ask for marriage counseling around 1915. To conduct these interviews, I traveled to Layton and Cedar City. I was also able to conduct archival research at the Church History Library in Salt Lake City. To do this archival research, I traveled to Salt Lake City for five research days. I am currently transcribing these interviews. They will be deposited into the special collections and archives at Utah State University in spring 2023. Both the oral histories conducted and the archival research I was able to do at the Church History Library will be central to my Master's Thesis at Utah State University, "Marriage, Magic, and Lost Livestock: The Logan Peepstone Woman in Mormon Family Folklore." My thesis will be completed by May 2023.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

This research set out to uncover more about women's peepstone use in Utah, specifically at the end of the 19th century and into the beginning of the 20th. I hoped to learn more about how peepstone women functioned in their communities, specifically as counselors and mentors to other women (often through telling them who to marry). While there are limited contemporary sources that provide any detail about peepstone women, many families still tell stories related to their own peepstone pioneer ancestors. At the onset of this research, I hoped I would be able to interview descendants of the Logan peepstone woman, Elvine Petersen. I was surprised to learn how eager many of Petersen's descendants were able and eager to talk with me about her peepstone use. As I spoke with Petersen's descendants, and continued to deepen my own understanding of this time period and spiritual gift through archival and secondary research, I was astonished at the depth of Petersen's impact on her Logan, Utah community and history. Petersen's descendants were eager to illustrate the popular and positive influence she had on members of her local community. Petersen's descendants emphasized her peepstone use was a spiritual gift responsibly used to help others. By interviewing Nadine McCombs Hansen, a granddaughter of Lydia Duella Nelson, a Smithfield woman who asked Petersen who to marry around 1915, I was also able to see the other side of this narrative history. For Hansen, her grandmother's story of visiting the peepstone lady was a cherished family story; Hansen felt bonded to her grandmother through listening to this story in her childhood. Moreover, for active members of the Church of the Jesus Christ of Latter-Day Saints, family stories that confirm marriage as revelation establish a spiritually significant start to their family.

Publications and/or presentations based on your Redd Center research or program:

"Love Magic Among the Mormons: The Legacy of the Logan Peepstone Woman" will be presented at the American Folklore Society's Annual Conference (Oct 2022)

I will also apply to present a section of this research at the Mormon History Association's Annual Conference (2023) title forthcoming

Next steps for your research process:

I still have one interview pending with a descendant of Elvine Petersen which I hope to complete by Nov 2022. In the future, I would like to expand this research into a doctoral degree. I hope to build on these oral histories and gather further family stories relating to Utah peepstone use and women's spiritual gifts in Utah. Conducting further oral histories would allow my research to develop a stronger sense of this understudied phenomenon in the Utah period from approximately 1850-1915.

Future plans for publication and/or presentations:

"Love Magic Among the Mormons: The Legacy of the Logan Peepstone Woman" will be presented at the American Folklore Society's Annual Conference (Oct 2022)

I will also apply to present a section of this research at the Mormon History Association's Annual Conference (2023) title forthcoming

Comments:

I do not currently have forthcoming publications based on this research, but I hope to submit several journal articles in the near future that will build on the research this award allowed me to conduct. I greatly appreciate the support and opportunity to conduct archival research and oral histories with this award and will be sure to cite the Redd Center's support.



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CHARLES REDD FELLOWSHIP AWARD IN WESTERN AMERICAN HISTORY

DAVID R M BECK, NATIVE AMERICAN STUDIES, UNIVERSITY OF MONTANA, “‘BRIBED WITH OUR OWN MONEY,’ FEDERAL MISUSE OF TRIBAL FUNDS IN THE TERMINATION ERA”

CAROLINE JOHNSTON, HISTORY, VANDERBILT UNIVERSITY, “LAND RIGHTS AND ANTI-STATIST COALITIONS DEVELOPED IN THE WEST”

GWENDOLYN LOCKMAN, HISTORY, UNIVERSITY OF TEXAS AT AUSTIN, “RECREATION AND RECLAMATION: PARKS, MINING, AND LAND USE IN BUTTE, MONTANA”

KELSEY JENNINGS ROGGENSACK, HISTORY, UNIVERSITY OF EXETER, “MIGRATION AND TRADITION IN THE AFRICAN AMERICAN WEST, 1880-1930”



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Award Report

Name:	David Beck	Email Address:	davebeck56@gmail.com
Address:	309 Gregory Hall, 810 S. Wright Street Urbana, IL 61801	Phone Number:	4062417111
Project Title:	Visiting Professor, Department of History		
Organization/ Institution:	University of Illinois, Urbana- Champaign	Submission Date:	10/08/2022

Name of Award Received:

Charles Redd Fellowship Award in Western American History

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I spent two weeks in the archives at BYU in spring 2022. I hoped to accomplish two things in relation to my book manuscript, which consists of a series of case studies of the U.S. federal termination policy impacts on tribal nations in the 1950s and 1960s, with historic background in each case dating to the establishment of the impacted reservation communities. The manuscript also begins with an overview of federal policy initiatives. At BYU I wanted to firm up the policy section of the work, which was already largely complete. I also wanted to use the Wilkinson and other papers to fill out my analysis of the termination of the Mixed-blood Utes on the Uintah and Ouray Reservation. I was able to accomplish this and more using the following collections:

- *Ernest L. Wilkinson Personal Papers, UA 1000
- *National Council of American Indians Collection, MSS 1704
- *Wilkinson, Cragun, and Barker Indian Claims Commission records, MSS 2291
- *Wilkinson, Cragun, and Barker records, MSS 2382

A main cause of tension within the Ute tribes and a key cause of the termination of certain members of the tribes was the successful \$32 million claims case brought by Ernest Wilkinson and his associates. These papers contain a plethora of documents relating to that case, which are reflected in the endnotes for the Ute chapter of the manuscript. The documents also filled in some holes in the policy chapters at the start of the manuscript, especially in relation to the history of the Indian Claims Commission.

As a bonus, the Wilkinson firm also served as attorneys for the Menominee Indian Tribe of Wisconsin, another case study in the manuscript. I was able to use some of the material from the Menominee lawsuit found in the papers above to strengthen that chapter as well.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The focus of my manuscript is the federal use of tribal monies (withholding funds) to bribe Indian tribes to accept termination of their relationship with the United States in the 1950s and 1960s, under a policy known as Termination. Two questions informed my fellowship work. The basic issue, in relation to the Uintah and Ouray Utes, was to identify the source of the funds that Congress and the Bureau of Indian Affairs would use to bribe them. Once I could describe that, I asked how the bribery actually occurred, and to what extent was it effective.

The funds came from a successful \$32 million case in the Court of Claims that Ernest Wilkinson's firm conducted. The suit was initially brought by Raymond Bonnin, whose papers are also interspersed in the BYU archives. Senator Arthur Watkins of Utah refused to release the Uintah and Ouray portion of the funds unless the tribes agreed to termination. Tribal meetings, meetings with the attorneys, attorney correspondence, and court filings all fill in this part of the story.

Another basic question that I came to BYU with was the relationship of the U.S. Court of Claims to the Indian Claims Commission (ICC). I did not know that I would find answers in the archives there, but it turns out the Ernest Wilkinson played a key role in drafting the ICC bill. Wilkinson was perhaps the most important attorney filing claims for tribal nations during this time, for the better for some tribes, and not so helpful to others. But his role in two of the cases I am writing about (Ute and Menominee) are revealed in depth in the papers I read, and his and his team's writings clarify the federal coercive tactics toward tribal nations in the 1950s.

Publications and/or presentations based on your Redd Center research or program:

Book manuscript tentatively titled _“Bribed with our own money”: Federal Abuse of American Indian Funds in the Termination Era_. Currently with readers at the University of Nebraska Press.

Next steps for your research process:

The research for the book is completed; now the manuscript is in the initial stages of the publication process.

Future plans for publication and/or presentations:

My book manuscript is now with readers through the University of Nebraska Press. Some of the material that I gathered and learned during the fellowship will become part of classroom presentations.

Comments:

Thank you for this fellowship. The research played a key role in my ability both to complete and strengthen my book manuscript.

I was Professor in the Native American Studies Department at the University of Montana when I received the fellowship; I have since moved to the History Department at UIUC.



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Award Report

Name:	Caroline Johnston	Email Address:	caroline.a.johnston@vanderbilt.edu
Address:	1306 Eastland Ave Nashville, TN 37206	Phone Number:	3039032551
Project Title:	"The Sagebrush Rebellion and the Remaking of Myth: Political Synthesis in the Rocky Mountain West, 1976–1983"		
Organization/ Institution:	History, Vanderbilt University	Submission Date:	02/09/2023

Name of Award Received:

CR Fellowship

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

My research focuses on the Sagebrush Rebellion, a movement in the Rocky Mountain West of the late 1970s and early 1980s, organized to win public land from the federal government in order to place it under state and private control. The movement drew upon the concrete political organization and the more abstract American mythology in the Rocky Mountain West. The Rebellion fought against federal ownership and power in a region where half of all land made was owned by the federal government. In fighting what conservative activists regarded as the leviathan of the twentieth century federal expansion, Sagebrush Rebels inspired coalition-building among Western ranchers, farmers, miners, politicians, and extractive business owners that led to the crystallization of an anti-statist worldview linking the myth of Western individualism with opposition to federal power. My research at the Redd Center helped me to hone my understanding about how and why federal land use regulations expanded in the 1970s and the way that Utah constituents responded to this expanding regulatory state. By examining congressional papers and local land use studies completed by policy experts, I was able to ground my project in a complex understanding of local land use negotiations in which local lawmakers balanced delicate western ecosystems and resource use from agricultural workers and extractive resource industries.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Wallace Foster Bennett Papers in particular provided insight into a multitude of western groups with vested interests in public land use, conservation, and regulation. I seek to understand the ways that westerners who formed the Sagebrush Rebellion in opposition to the 1976 Federal Land Policy and Management Act began to form political alliances with one another based on their shared understanding of the meaning and purpose of American western land. I found their anti-statist interests already percolating in the Wallace Foster Bennett Papers: ranchers, farmers, private business interests, and land developers each encouraged their senator to reduce federal land oversight and push for expanded resource use on public lands. These correspondents clarified the ways that different western groups thought of themselves and each other. Paired with other papers directly related to the Sagebrush Rebellion, the development of these groups' ideologies from the time of Senator Bennett's tenure through the Sagebrush Rebellion becomes clear. While different western interests vied for similar policies, many did not yet see each other as direct political allies before the Sagebrush Rebellion based on my research at the Redd Center. This is valuable information, since it provides me with an idea of the western political landscape just before the rebellion. While these groups' interests remained stable from the early 1970s through the early 1980s, my research at the Redd Center illuminated the enormous self-conscious ideological alliance wrought by the Sagebrush Rebellion.

Publications and/or presentations based on your Redd Center research or program:

None

Next steps for your research process:

This research is part of my dissertation, which will be completed by Spring 2025. I will be going to archives throughout the Rocky Mountain West again beginning in Summer 2022, and will spend the following two school years writing my dissertation with research during the summer months.

Future plans for publication and/or presentations:

I plan to participate in several conferences beginning in Spring 2022 and will notify the Redd Center when I present work based on research funded by the Center.

Comments:

Thank you!



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BYU Redd Center
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Award Report

Name:	Gwendolyn Lockman	Email Address:	gwendolyn.lockman@utexas.edu
Address:	3312 Hollis St Missoula, MT 59801	Phone Number:	4063968239
Project Title:	Recreation and Reclamation: Parks, Mining, and Community in Butte, Montana		
Organization/ Institution:	University of Texas at Austin	Submission Date:	10/14/2022

Name of Award Received:

Charles Redd Fellowship Award in Western American History

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I consulted the Granville Stuart Papers, the Weeden Letters, the Toole Smelter, the G.M. Blair letter, and the Emmeline B. Wells Flowers and Songs of the Wasatch. My research questions revolved around ideas about land, mining, territorial governance, and hunting and fishing.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

the Granville Stuart Papers were particularly helpful for getting a better grasp on the ideology of pioneers and political men in early Montana Territory and the young state of Montana. Stuart was also an amateur sketch artist and an avid outdoorsman, who went hiking, camping, and hunting with his brother and their acquaintances. This information has been helpful for the foundation of the ideas I present in my dissertation about land and place.

Publications and/or presentations based on your Redd Center research or program:

"RE/CREATING BUTTE, MONTANA: HOW HISTORICAL INFRASTRUCTURES OF MINING AND RECREATION INFLUENCED THE CREATION OF PUBLIC SPACE THROUGH SUPERFUND REMEDIATION"

Next steps for your research process:

I am currently drafting my dissertation while in residence at Dumbarton Oaks as a Junior Fellow in Garden and Landscape Studies. I plan to finish in 2023 or 2024.

Future plans for publication and/or presentations:

I intend to publish my dissertation as a monograph, and hopefully publish chapters in academic journals.

Comments:

Thank you for your support for my research!



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Kelsey Jennings Roggensack	Email Address:	kjr58@cornell.edu
Address:	2421 East Rocky Slope Drive Phoenix, AZ 85048	Phone Number:	4807738304
Project Title:	"Migration and Tradition in the African American West, 1850-1930"		
Organization/ Institution:	Cornell University	Submission Date:	10/15/2022

Name of Award Received:

Charles Redd Fellowship Award in Western American History

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The following collections were especially informative to my research: "William and Annette Curtis Collection of African Americana and LDS Church History Materials" (MSS 6223); "African American Oral History Project transcripts, case files, and other material, 1980-1995" (Series; Identifier: MSS 7752 Series 17); "Utah's Negro Pioneers of 1847" (MSS 792) "Louise Pound, Folklore—Negro Songs" (MSS 281; Box 1, Folder: 15); "Slave Narratives" (MSS 5896); "John C. Briggs correspondence" (File — Multiple Containers; Identifier: MSS SC 130); "Cecil B. DeMille Papers" (MSS 1400), specifically the sub series pertaining to "Negro applicants" (File -oversize: 265, Folder: 22); "T. Pat Matthews interview with Thomas Hall" (File — Folder: 1; Identifier: MSS 2903); "Rhoda R. Dougall paper on World War I, date of production not identified" (File — Box: 2, Folder: 10; Identifier: MSS 8208 Series 2).

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

With funding from the Charles Redd Center for Western Studies at Brigham Young University, I have been able to research sources that speak directly to my premier research question: How did African Americans imagine and experience the American West? My dissertation project, "Homeward Crossing: African American Migrations to the American West, 1840-1930," analyzes African American perceptions of migration to and subsequent life in the American West. While studying at the Redd Center, I consulted many collections that will figure prominently in my dissertation, most especially oral historical accounts of Black residents of Idaho and Utah in the early 20th century from the collection "African American Oral History Project transcripts, case files, and other material, 1980-1995" (Series; Identifier: MSS 7752 Series 17). Additionally, the collection entitled "John C. Briggs correspondence" (File — Multiple Containers; Identifier: MSS SC 130) included written documentation of enslaved Black people migrating to the American West. Through my research at the Redd Center, I was able to write an article, currently under review at the Western Historical Quarterly, concerning the lives of Mary and Willis Johnson, who migrated from Missouri to California in 1859 as enslaved people, which is informed by the "John C. Briggs correspondence" collection.

Publications and/or presentations based on your Redd Center research or program:

I submitted an essay titled: "I want you to write to me and tell me where my children are. I wrote 6 times and got no answers": African American Enslavement in the US West, 1859-1866" based on my research findings at the Redd Center. The paper is currently under review at the Western Historical Quarterly.

Next steps for your research process:

The most recent step in my research process was writing an essay as a result of my research at the Redd Center, which I have submitted for review to the Western Historical Quarterly. Next, I plan to analyze further research findings from the Redd Center as I continue my dissertation research. I plan to conduct nine months of research starting in December of 2022. When I return to Cornell University in the fall of August 2023, I will be writing my dissertation full time. My time spent at the Redd center has already been hugely informative to my research process and will continue to inform my dissertation in terms of scope and method.

Future plans for publication and/or presentations:

I submitted an article titled: “‘I want you to write to me and tell me where my children are. I wrote 6 times and got no answers’: African American Enslavement in the US West, 1859-1866,” based on my research at the Redd Center. The paper is currently under review at the Western Historical Quarterly.

Comments:

Thank you kindly for your generosity in granting me the Charles Redd Fellowship Award in Western American History. I am grateful for this experience! My time at the Charles Redd Center was enjoyable and productive. I greatly appreciated the opportunity to meet and learn from faculty at the Department of History, Drs. Jay Buckley and Brenden Rensink. Thank you also to Mrs. Amy Carlin for facilitating my time at the Redd Center. I felt welcomed and supported throughout my visit as a researcher on BYU’s campus!



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MAKAYLA REID, HUMANITIES, PENNSYLVANIA STATE UNIVERSITY, "THE FAUNAL REMAINS OF CAMP FLOYD, FAIRFIELD UTAH AN ARCHAEOLOGICAL VIEW INTO HISTORICAL MILITARY PROVISIONING"



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Makayla Reid	Email Address:	makayla.reid@gmail.com
Address:	Stocker Rd, Exeter EX4 4PY, United Kingdom Baring, Arkansas 72923	Phone Number:	8018508936
Project Title:	Provisioning Camp Floyd: An Analysis of Faunal Remains		
Organization/ Institution:	University of Exeter	Submission Date:	11/02/2022

Name of Award Received:

Clarence Dixon Taylor Research Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I Revisited Utah SHPO by traveling from Arkansas and finished analyzing the remainder of the Camp Floyd Collection from the Fort Douglas Military Museum which comprised of 175 boxes, currently estimating 12,000 animal remains.

This work included generating new tags and a digital artifact catalog for the state and museum records. The catalog includes physical tags with the artifacts, a photographic collection and a complete digital catalog of the data collected.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Redd Center greatly assisted me in covering travel and lodging costs to the location of my research, paying for supplies and research resources.

Publications and/or presentations based on your Redd Center research or program:

There have not been any at this time. I'm sure there will be when I finish the results and analysis.

Next steps for your research process:

I am conducting the results based on my findings while in Utah, then it will go towards my thesis.

Future plans for publication and/or presentations:

I will let you know if any become available. A short version that was started in my undergraduate is published in the fall 2021 edition of the Utah State Historical Quarterly Magazine. We have discussed doing an update when I'm finished. The information is also available and may be used by future students and the Utah State SHPO as well as the Fort Douglas Military Museum.

Comments:

Thank you very much for your time and assistance with my research. Programs like this keep us turning.

NANCY FORD, "UW WOOL LABORATORY, 1907-2012"

TIM GRAHAM, "LA SAL MOUNTAIN ALPINE ARTHROPOD COMMUNITIES: ESTABLISHING BASELINE CONDITIONS"

ABRAHAM PROFITT, "OVERUSE IN THE UNCOMPAHGRE: RECREATION IMPACTS AND VISITOR PERCEPTION IN THE UNCOMPAHGRE NATIONAL FOREST"



BYU Readd Center
Charles Readd Center for Western Studies

Award Report

Name:	Nancy Ford	Email Address:	nancy@nancyford.com
Address:	PO Box 284 Saratoga, WY 802331	Phone Number:	970-225-9136
Project Title:	UW Wool Laboratory, 1907-2012		
Organization/ Institution:		Submission Date:	10/11/2022

Name of Award Received:

Independent Research and Creative Works Award

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

I am grateful for the Charles Readd Center's award as it allowed me to accomplish my initial research goal of examining the contents of the University of Wyoming's (UW) Wool Laboratory. What I discovered was the UW Wool Laboratory is just one important component of a large and varied collection entitled, "UW Wool Division Records: 1874-2007," housed in both the Emmet D. Chisum Special Collections at COE Library and the American Heritage Center. I learned to search and access the contents of this collection and as a result, I believe that worthwhile stories about Wyoming's wool history do exist and need to be written.

From this initial research, I began to develop a bibliography and a table of contents for a future book. Materials came from (1) researching the collection's contents online, (2) looking through the Wool Laboratory's 5-drawer filing cabinet of index cards divided into many wool topics, and (3) searching through several of the collection's storage boxes.

In addition to researching in Laramie, I also explored the Saratoga Public Library for books written about Wyoming's wool industry. I found books on related topics such as shepherding and the sheep wars. I also found books on Wyoming's history that include chapters and segments about wool but did not find any book that examined the entire industry including consumers of wool. This confirms the need for a book focused on the history of Wyoming's wool industry. The book needs to include the benefits UW contributed through its wool department, wool laboratory, and extension service. It also needs to include information on Wyoming's sheep growers, government, education, and industry leaders and their contributions to the growth of Wyoming's wool industry.

The contacts I made with the many librarians will continue to be invaluable as I conduct my research in the future.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The CRC award was extremely helpful to my research. It supported my travels to Laramie to initially explore the materials within the "UW Wool Division Records: 1874-2007." This collection is large and contains collections from several organizations such as the UW Wool Laboratory and the Wyoming Woolgrowers Association, to name a few. There are various materials including photographs, letters, research papers, books, etc. Because of the breadth of this collection, future visits to Laramie will be necessary.

Another way the CRC award was helpful is that it provided an allowance to purchase several reference books that I found in the collection that cannot be borrowed. Having those books to review at my convenience saves much time and effort.

My initial research helped to clarify the role the UW Wool Laboratory had in supporting the woolgrowers; it primarily conducted research. For example, one longitudinal study examined the effects of different inputs on increasing the weight of a sheep's fleece. The Wool Laboratory was also a storehouse of information on everything sheep. Information came from the activities and research of the UW Wool Laboratory, Agriculture Experiment Station and Wool Department. The library was catalogued using index cards and included national and international research on sheep and their biproducts--wool and meat.

A few fun facts I learned was that Wyoming's sheep growers included its first governor, Francis E. Warren. Despite the sheep wars that occurred, sheep and cattle can coexist very well because of their different grazing habits. Sheep often pasture in mountainous areas. In the 1930s, a UW research experiment showed that a herd of sheep were able to survive in the Red Desert.

Thanks to the CRC award, I look forward to writing more facts and stories about Wyoming's wool industry that hopefully will be enjoyed by many people.

Publications and/or presentations based on your Redd Center research or program:

None currently.

Next steps for your research process:

Next steps in my research process will first include synthesizing the many documents gathered from this initial research. More online work is needed to make sure I am accessing everything that is available and am not missing important information. Afterwards, I will be making more trips to Laramie to peruse more boxes and their contents. In addition, I will need to interview important people throughout the state associated with the Wyoming sheep and wool industry. With these steps, I should have enough information to complete a table of contents and an introductory book chapter.

Future plans for publication and/or presentations:

Future plans for publication are to find a publisher interested in publishing a book on the history of wool production in Wyoming entitled, "Wyoming Wool: Its History in the Cowboy State." Ultimately, I would like to present my work to the Wyoming Wool Producers, the Wyoming State Historical Society, and the UW Board of Trustees, to name a few.

Comments:

Thank you to the Charles Redd Center for the Independent Research and Creative Works Award. As an independent researcher, it is especially helpful to receive monetary support and encouragement from such an esteemed institution.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Tim Graham	Email Address:	lasius17@gmail.com
Address:	1701 Murphy Lane Moab, Utah 84532	Phone Number:	(435)220-0189
Project Title:	La Sal Mountain alpine arthropod communities: establishing baseline conditions		
Organization/ Institution:	independent researcher collaborating with the Manti-La Sal National Forest Moab District and Canyonlands Natural History Association	Submission Date:	11/15/2022

Name of Award Received:

Independent Research and Creative Works

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Most of the work conducted in 2021, funded by the Charles Redd Center funds along with funding from Canyonlands Natural History Association (CNHA) consisted of processing pitfall and pollinator trap contents, separating invertebrates in the traps from debris, and sorting specimens into similar-looking categories. This work can be done by people with no previous experience with insects and other invertebrates, and can be an efficient way to clean the samples and organize specimens. This process requires large numbers of specimen vials, and isopropyl alcohol to preserve the specimens. As with everything else, the cost of these supplies increased in 2021, and a major portion of the Redd Center funding went to purchase these supplies. While I did not have many volunteers sorting samples, I spent little time in the field, and made significant progress sorting samples.

I did not travel to museums as much as I'd planned, primarily due to COVID restrictions and cautions, but also because I received less than my full budget request. Reducing travel expenses was the easiest way to adjust expenditures to match the grant amount. I did get up to the USDA Bee Lab in Logan, Utah and the Natural History Museum of Utah in Salt Lake City, the former to work with specialists to identify more of the bees collected in the pollinator cup traps (mostly small Andrenidae and Halictidae), and the latter to train a few volunteers to sort samples, and to begin the process of donating specimens from this study to the museum to ensure their long-term preservation and availability for subsequent comparative work on La Sal alpine arthropod communities anticipated as part of an assessment of impacts on the introduced, non-native mountain goats on La Sal alpine ecosystems.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I made good progress in identifying specimens to family at least, and some to genus or even species, building a voucher collection which will facilitate quantifying the taxa that comprise arthropod communities of the different habitats and sites in the La Sals. This will allow better comparisons between the baseline conditions documented by this current project and any future assessments of alpine arthropod populations and communities for changes that might have resulted from the introduced mountain goats, climate change, increased recreation, or other disturbances. Having the supplies to sort and separate the many specimens in the samples into taxonomic categories allows me to begin to describe and compare samples, and thus characterize arthropod communities from different habitats at the same site and from the same habitat types from different sites. This is essential to assessing change over time in these systems.

Even without comparing samples directly, either quantitatively or even qualitatively, as I've worked through the samples, some patterns have emerged, which can provide some guidance for the next steps in processing and analyzing the samples. Identifying common taxa, or those that may be limited to a particular site or habitat may reveal good candidates for indicators in future monitoring of alpine ecosystem conditions, including subsequent work that would compare arthropod communities described by this work to communities after a longer period with mountain goats in the system.

One pattern that has become apparent is that there are many fewer pollinators flying around in late August and early September than earlier in the summer. I will quantify this in 2022 as I work through the samples to identify and enumerate the specimens, but surveys in the future to assess changes in these communities may not require late summer surveys.

Publications and/or presentations based on your Redd Center research or program:

I did not give any presentations to regional or national science meetings in 2021 related to this study. I did give presentations to the Canyonlands Natural History Association (also funding this project) board, as well as to a University of Utah Environmental Studies class and a Master Naturalist Teacher Workshop sponsored by the Natural History Museum of Utah broadly describing the problem this study addresses: that nothing is known about the La Sal alpine arthropods in the face of new and increasing threats (e.g., mountain goats, climate change, non-motorized recreation). I will provide you with copies of any publications that come out of this study.

Next steps for your research process:

I need to continue to work on identifying specimens to order and family, and where possible to genus and species, or at least to designated morphospecies categories. As stated above I still have quite a few samples, from both pitfall traps and pollinator cup traps, that need to be sorted, adding to the identification work load. I have a large data set of net-collected pollinators (primarily Hymenoptera, Lepidoptera and Diptera). Most of the bees and butterflies have been identified to species, but many of the wasps, moths, and most of the flies have only been identified to family. All of the specimens have data associated with them that provide important information about the ecology of these insects that perform the critical ecosystem function of pollination and thus reproduction of many flowering plants of the alpine zone. There are important categories I have not organized yet, including the temporal component, both within and between years, of when each species is active, as well as arranging the data so any correlations between host flower use and time of year or differences between years can be examined. These data, coupled with the weather data from nearby meteorological stations may reveal patterns in floral use and weather to help determine whether observed seasonal activity of pollinators is influenced by floral resources or weather conditions, some interaction between weather and plants, or other environmental factors.

The Moab District of the MLSNF is monitoring vegetation to determine whether there are changes that correlate with mountain goat activity. Once my invertebrate data processed I can explore potential relationships between invertebrates and plant species, identifying particular habitats at greater risk from mountain goat or other disturbances that are more important for arthropod species or communities.

Future plans for publication and/or presentations:

I hope to present results of parts of this project at future Ecological Society of America (ESA) and Entomological Society of America (EntSoc) annual meetings, and upcoming Colorado Plateau Biennial Conferences (Flagstaff). The ESA meetings are relatively close which will make travel to them easier to afford: ESA--Portland 2023, Long Beach 2024, Salt Lake City 2026; and EntSoc--Phoenix 2024, Portland 2025.

If the community analyses warrant, I will try to publish papers in scientific journals reporting these results. I will be sure to notify the Redd Center of any presentations I make and of any manuscripts I write and submit for publication.

Comments:

Support from the Charles Redd Center was instrumental to being able to continue working on this project over the past couple years, and I greatly appreciate that I was able to continue this work thanks to you. The closing of National Parks in 2020 and 2021 due COVID concerns greatly reduced revenue for Canyonlands Natural History Association which has been my primary source of funds, and they reduced funding in 2020, and funded no projects in 2021. Fortunately, National Park visitation has rebounded. CNHA was able to fund the project at a slightly enhanced level in 2022, but this is the last year they will fund this project, so they can provide funding for other important research on public lands in Southeastern Utah. I did not apply for Redd Center funding in 2022, but I may be back with a request in 2023; there is still much to do in the realm of arthropod identification and then examining habitat needs and other ecological relationships that might be at risk from disturbances such as climate change, introduced mountain goats.

Award Report



BYU Redd Center
Charles Redd Center for Western Studies

Name:	Abraham Woodville Proffitt	Email Address:	abeprof@gmail.com
Address:	613 N Beech Street Cortez, CO 81321	Phone Number:	abeprof@gmail.com
Project Title:	Ouray Ranger District Recreation Visitor Use Study		
Organization/ Institution:	Western Colorado University	Submission Date:	02/09/2023

Name of Award Received:

Independent Research and Creative Works Award

Independent Research and Creative Works Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

For several decades, visitors have traveled to Ouray, Colorado, to camp and recreate in the Uncompahgre National Forest. With a relatively low number of campers, the land, its residents, and the regional Forest Service have supported the traditional "choose-your-own" campsite model with dispersed camping. Since 2011, however, there has been a ~300% increase in visitor numbers on the Blue Lakes Trail (Mt. Sneffels Wilderness) and ~3,000 monthly vehicles observed on the Off-Highway Vehicle (OHV) trails system. To understand the ecological impacts of increased visitation, I conducted a landscape assessment from June 1st to October 15th, 2021, using infrared trail cameras, a campsite inventory, and water tests and mapped this data using ArcGIS. Through funding from the BYU Redd Center, I was able to purchase equipment, pay for travel and lodging during the field study, and pay for my undergraduate intern, who assisted me in collecting data.

Additionally, I summarized public comments regarding trail/campsite conditions and recommendations submitted during a preliminary NEPA scoping period that occurred during my project. My research found a substantial increase in ecological damage in the Blue Lakes area and the OHV trails system compared with prior smaller-scale studies. Additionally, public comments from the NEPA scoping support these findings. In response to the user-created impacts, the Ouray Ranger District is developing a comprehensive assessment and management strategy for the region later this year. Some of my recommendations include 1) increasing backcountry education and signage (online and at the trailhead), 2) updating infrastructure in the front-country (parking) and backcountry (compost toilets, trail maintenance, designated campsites), and 3) instituting a permit system for busy months and restricting areas for rehabilitation.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Funding from the Redd Center was instrumental in purchasing the trail monitoring equipment and materials for research, including batteries and paper for survey forms. I also used funds to pay for travel and lodging in Ouray. My permanent home is in Cortez, CO, which is over 100 miles from Ouray, so a large portion of the funds covered gas and meals. Lastly, I used funds to pay for my undergraduate intern's travel and meals. During the field season, he helped me collect and analyze over 2000 trail and road camera entries, and I could not have paid him without the help of the Redd Center. Overall, this scholarship helped me answer an essential question for the Forest Service: How has unmitigated recreation impacted the Ouray region, and what management strategies should we use in order to curb these impacts?

Publications and/or presentations based on your Redd Center research or program:

My research was presented in three formats.

The first was a master's thesis presentation at Western Colorado University. Masters' students are required to complete a 600+ hour project in collaboration with a project sponsor, in my case, the U.S. Forest Service. I presented my findings in May 2022 to a panel consisting of members from the Western Environmental Studies Department, Master of Environmental Management department, U.S. Forest Service, and the broader community. The presentation was recorded and added to Western's online portfolio of master's projects so that future students may use the research.

The second format was a master's portfolio. This portfolio's specific contents included a gap analysis, a resume, a statement of career goals, a presentation of skills, and a form of visual work that best represents the study. The portfolio was intended to highlight the project outcomes and the skills and experiences I have learned throughout the process to increase my employment opportunities after graduation. The third format was a report for the U.S. Forest Service illustrating the study outcomes and recommended management strategies. Visitation and environmental impact data observed during this study assisted the U.S. Forest Service in updating its forest-wide strategic plan.

Next steps for your research process:

my research is finished

Future plans for publication and/or presentations:

At this time, I do not have plans for publication or future presentations; however, the Ouray Ranger District has used my research to make a management decision for the Mount Sneffels Wilderness, and my report was featured in the local newspaper. If I decide to pursue publication or a presentation, I will notify the Redd Center.

Comments:

I also have a final report that I'm happy to share with the Redd Center so let me know!



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JOHN TOPHAM AND SUSAN REDD BUTLER BYU FACULTY RESEARCH AWARD

JOEY STANLEY, LINGUISTICS, BRIGHAM YOUNG UNIVERSITY, "THE DEVELOPMENT OF UTAH ENGLISH IN HEBER CITY"



BYU Readd Center
Charles Readd Center for Western Studies

Award Report

Name:	Joey Stanley	Email Address:	joey_stanley@byu.edu
Address:	4068 JFSB Provo, UT 84602	Phone Number:	7062965790
Project Title:	The Development of Utah English in Heber City		
Organization/ Institution:	BYU Linguistics Department	Submission Date:	09/30/2022

Name of Award Received:

John Topham and Susan Readd Butler BYU Faculty Research Award

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

I applied for this grant to help process the interviews with Heber residents, recorded on 751 cassette tapes, in order to study early rural Utah English. True to my application, 100% of the funds from this grant went towards student wages. However, because the received amount was a little less than what was requested, I adjusted the task that was to be completed by the student workers. Instead of hiring a small team of workers to transcribe roughly 40 hours of audio, I hired one student to listen to the first few minutes of each time and record any metadata about the interviewees. This student listened to all 751 tapes and gathered enough metadata to find 505 of the interviewees on Family Search. This provides invaluable information on when and where they lived, as well as their family heritage; such rich metadata is not normally collected in linguistic studies.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Prior to this grant, I had a very incomplete picture of what this collection of cassette tapes contained. While the tapes still haven't been transcribed, the information gathered thanks to this grant now provides me a much more complete picture of the demographic background for these interviewees. For example, I thought that the interviewees were mostly born in the 1930s–1940s, but in reality, I now know that the bulk were born between 1915 and 1935: an entire generation older than I anticipated. Just five were born after WWII and a few were born in the late 1800s. A little over half were born and raised in Wasatch County, which was less than I anticipated, but it does give me the opportunity to compare across regions within Utah.

Most importantly, what I learned is that I now know what the first 30 tapes I want to transcribe are, and the next 30 after that, and the next 30 after that. It is a daunting task to transcribe 751 tapes, and starting transcriptions more or less randomly would end up with a haphazard sample that would be difficult to analyze linguistically. But I can now focus on people born in Heber within a certain time range. This means that after only 30 or so tapes being transcribed, I'll have enough data—from a homogenous sample—to provide a useful linguistic analysis.

Publications and/or presentations based on your Readd Center research or program:

Currently none. I still need to transcribe the data before I can do anything with it.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

I apologize that I wasn't able to complete as much work as I hoped to with this grant, that no publications/presentation have been done, and that the project is on hold. The grant really did provide important information to me about these tapes and I can now make informed decisions about which tapes to begin with. It's just such a big project that will take years and a lot of funding to complete, so it takes a lot to even get it started. The grant went a long way towards completing this project, it's just that there is a much longer way remaining before I can get it done.



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MICHAEL A. AMUNDSON, HISTORY, NORTHERN ARIZONA UNIVERSITY. "ON THE TRAIL OF CLYDE A. MCCOY IN UTAH'S NATIONAL PARKS: REPHOTOGRAPHING 1940 COLOR STEREO IMAGES IN BRYCE CANYON AND ZION NATIONAL PARKS" (DELAYED FROM 2019 BY HEALTH AND COVID)

KATHERINE BENTON-COHEN, HISTORY, GEORGETOWN UNIVERSITY, "COPPER MONEY: THE PHELPS DODGE FAMILY EMPIRE"

JOSH CLOUGH, NATIVE AMERICAN STUDIES, UNIVERSITY OF OKLAHOMA, "MISS INDIAN AMERICA CONTESTANTS IN THEIR OWN WORDS"

JOHN HINES, SOCIAL JUSTICE STUDIES, POINT PARK UNIVERSITY, "RURAL GENTRIFICATION AND THE PERSISTENCE OF TRADITIONAL AGRICULTURE IN THE NEW WEST"

SANDRA MATHEWS, HISTORY, NEBRASKA WESLEYAN UNIVERSITY, "INDIGENOUS LAND AND SOVEREIGNTY: CONFRONTING SETTLER-COLONIALISM OF SPAIN, MEXICO, AND THE US IN NEW MEXICO, 1680-1870"

DYLAN MCDONALD, LIBRARY ARCHIVES AND SPECIAL COLLECTIONS, NEW MEXICO STATE UNIVERSITY, "THE TETON DAM, FORTY YEARS IN THE MAKING" (DELAYED FROM 2020 BY COVID)

AMANDA STASIEWICZ, ENVIRONMENTAL STUDIES, SAN JOSE STATE UNIVERSITY, "EXPLORING LOCAL FIRE DEPARTMENT CAPACITY TO DEAL WITH WILDFIRE EVENTS—ENHANCING RURAL COMMUNITY'S ABILITIES TO ADAPT TO EXACERBATING WILDFIRE RISK"

ERIN STILES; ANTHROPOLOGY; UNIVERSITY OF NEVADA, RENO; "THE DEVIL SAT ON MY BED: THE SPIRIT WORLD AND MORAL WORTH IN A LATTER-DAY SAINT COMMUNITY IN UTAH"



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Amanda Stasiewicz	Email Address:	amanda.stasiewicz@sjsu.edu
Address:	124 Peyton St Santa Cruz, CA 95060	Phone Number:	208-874-2800
Project Title:	Exploring local fire department capacity to deal with wildfire events—enhancing rural community#s abilities to adapt to exacerbating wildfire risk		
Organization/ Institution:	San Jose State University	Submission Date:	01/29/2023

Name of Award Received:

John Topham and Susan Redd Butler Off-Campus Faculty Research Award: Exploring local fire department capacity to deal with wildfire events—enhancing rural community#s abilities to adapt to exacerbating wildfire risk

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Funds from the Redd Center were utilized to fund travel to Idaho (i.e., airfare, lodging, registration, rental car) to attend the Idaho Fire Chief Associations meeting--a three day meeting in Coeur d'Alene, conduct preliminary interviews by phone, and begin development of a survey instrument. Supplemental funding was secured to hire a student researcher to assist with the project--which originally aspired to conduct interviews with fire department leaders and firefighters as well as implement a survey instrument. The student researcher has connections to the fire service and has been assisting with survey design and piloting the survey for administration.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Redd Center funds were essential for getting the project running in the absence of other funding sources. Partnerships with fire departments and their associations were made possible by the travel funds. The opportunity to connect with other state's fire chief's associations and the Western Governor's Association also arose, allowing us to tailor our questions to the needs of various organizations in the western US dealing with increasing wildfire risk.

Publications and/or presentations based on your Redd Center research or program:

n/a

Next steps for your research process:

Once survey piloting is complete, it will be administered at upcoming Fire Chief Association meetings and by the separately-funded student researcher to recruit departments that do not have the capacity to send representatives to the annual meeting. Part 2: Interviews, will occur over the course of late spring and into fall 2023 in a manner that is respectful of firefighters' demanding professional work during summer fire season.

Future plans for publication and/or presentations:

Future goals is for the study to scale up--there is interest in replicating the study across additional states. I will be certain to share publications, presentations, and subsequent replicate work to the Redd Center! Galvanizing this much interest in the project would not have been possible without the seed funding this \$1500 award provided.

Comments:

N/A



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Dylan McDonald	Email Address:	dylanmcd@nmsu.edu
Address:	Archives & Special Collections MSC 3475 PG Box 30006 Las Cruces, NM 88003-8006	Phone Number:	575-646-7711
Project Title:	The Teton Dam, Forty Years in the Making		
Organization/ Institution:	New Mexico State University	Submission Date:	11/10/2022

Name of Award Received:

2020 John Topham and Susan Redd Butler Off-Campus Faculty Research Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I used the funds to cover my travel expenses from Las Cruces, New Mexico to Boise, Idaho, where I spent three days at the Boise State University Special Collections and Archives (December 21-23, 2020) reviewing the Cecil Andrus papers, the Frank Church papers, the Len Jordan papers, and the Hugh Lovin papers. Additionally, I spent December 29-30, 2020 at the Idaho State Historical Society researching in the John Evans papers, Robert Smylie papers, the Ferris Weddle papers, and the Idaho Department of Water Resources records. The funds paid for airfare and meals. Due to the closure of the National Archives and Records Administration facilities during the pandemic, I was not able to visit NARA's Denver research room until the fall of 2022. I greatly appreciate the Redd Center granting me this extension of time to conduct my research. The funds covered transportation costs, food, and housing while at the archive from September 12th through the 16th. While there I reviewed the records of the U.S. Bureau of Reclamation, specifically project files, reports, and correspondence from the agency's Pacific Northwest Region (Ashton, Boise, Burley, and Newdale), Denver, and Washington, D.C. offices.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

My research into the Teton Dam focused on the development of the political will to build the dam in spite of all the economic, legal, scientific, and environmental roadblocks and the crowded landscape of other proposed irrigation and hydropower projects in the Snake River drainage. My time in Boise focused on Idaho's congressional and statehouse players and their thoughts on the many water projects. Their archival records showed the usual "horse-trading" of support amid the litany of infrastructure projects and environmental preservation initiatives. The fear of Idaho stream flows being diverted for use in the Southwest, especially to California, along with the rise in environmental legislation, notably NEPA and the Wild and Scenic Rivers Act, and legal challenges, saw Idaho politicians, regardless of party, work to develop the state's water resources as quickly as possible. They saw the window for tapping the federal treasury closing quickly. These issues likely contributed to the overreach with the Lower Teton Project, a decision that backfired spectacularly. In Denver, I finally got to delve into the mind of Bureau employees - some irrigation evangelists, others devoted technocrats - and see their single-mindedness to developing water projects regardless of the red flags. As would be said in the subsequent investigations into the cause of the collapse, once the project was in motion, nothing would or could stop it even when confronted with legitimate concerns.

Publications and/or presentations based on your Redd Center research or program:

None as of yet.

Next steps for your research process:

I plan to visit two more archives - the University of Arizona Special Collections in Tucson, Arizona, to review the Stewart L. Udall papers (AZ 372), who served as the U.S. Secretary of the Interior when the Lower Teton Project was submitted by the Bureau of Reclamation to Congress for authorization; and the Southwest Collection at Texas Tech University in Lubbock, Texas, to review the Marc Reisner papers (R43.1), who wrote Cadillac Desert: The American West and Its Disappearing Water, which extensively discusses the Teton Dam.

Future plans for publication and/or presentations:

The COVID-19 pandemic saw the temporary closure of numerous libraries and archival repositories, effectively limiting research opportunities. Additionally, my employer, New Mexico State University, curtailed authorized travel as a result of state public health directives. As such, I am at least 18 months behind the schedule I had initially envisioned when I submitted my award application. In preparation for my upcoming tenure review, I plan to submit and have accepted for peer-review publication at least two papers on my Teton Dam research before September 2024. My ultimate goal is to submit a manuscript to a university press, potentially to be printed in time for the 50th anniversary of the failure of the Teton Dam in 2026.

Comments:

Thank you for your generous support of my research project.



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Award Report

Name:	Erin Stiles	Email Address:	estiles@unr.edu
Address:	1665 N Virginia Reno, NV 89557	Phone Number:	9162480601
Project Title:	The Devil Sat on My Bed: The Spirit World and Moral Worth in a Latter-day Saint Community in Utah		
Organization/ Institution:	University of Nevada	Submission Date:	10/07/2022

Name of Award Received:

John Topham and Susan Redd Butler Off-Campus Faculty Research Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I received support to complete field research on contemporary experiences of the spirit world among members of the Church of Jesus Christ of Latter-day Saints in northern Utah. Latter-day Saint scripture and prophetic teachings describe a robust spirit world, and for many Mormons in this community, these teachings become manifest in encounters with spirits. Through the analysis of narratives of spirit visits collected through ethnography and archival research, this project's central research question was: to what extent do members' accounts of spirit encounters reflect local Utah Mormon conceptions of moral worth, moral progress, and moral action?

The Redd Center funding allowed me to continue fieldwork in Cache Valley--funds supported travel and expenses while there. The funds also allowed me to hire graduate assistants to collect and copy narratives in special collections at BYU. I have not yet used up the funding, and I would like to spend the remainder to have another graduate student complete work at BYU.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Redd Center funding allowed me to understand the complexity of interactions that Latter-day Saints in northern Utah have with spirits of kin and with evil spirits.

In an article forthcoming in the *Journal of the American Academy of Religion*, I explore contemporary Latter-day Saint conceptions of evil in northern Utah through considering both the lived experiences of spirits and the didactic tales of spirits that are a rich part of local folklore. Latter-day Saints are visited by both benevolent and malevolent spirits. These encounters with spirits are connected with local conceptions of "righteousness," a moral framework that is centered on positive action. Malevolent spirit visits are typically understood as the consequence of "unrighteous" actions or as impediments to exceptionally righteous activity; indeed, the most righteous actions are perhaps the most spiritually dangerous. Negative visitations reflect a cultural framework of evil as a human phenomenon that results from the temptations and distractions of an aggressive, external cosmological force—Satan.

In an article accepted by the *Journal of the Royal Anthropological Institute*, I show that most spirit visits are those of helpful kin—the deceased and of children not yet born. The visits show that the Mormon cosmological notion of the eternal family is not simply abstract or something to imagine and long for in the afterlife. Rather, spirit members of the family are active in the world of the living, and both

spirit and living members of the family are involved in the mutual project of salvation. The living and the spirits co-exist in a relationship of mutual ethical responsibility centered on assisting one another with spiritual progress. Mormon notions of the eternal family are manifest in the mutual responsibility between the spirit world and the mortal world.

Publications and/or presentations based on your Redd Center research or program:

Publications

Under contract, *The Devil Sat on My Bed: Spirits and Spiritual Progress in Mormon Community in Utah*, Oxford University Press. Manuscript complete and with publisher.

Accepted, “‘They Have Shown Me What I Need to Know’: Spirits, the Eternal Family, and Collective Ethical Responsibility in Mormonism.” *JRAI: Journal of the Royal Anthropological Institute*.

Forthcoming 2022 “‘The Evil Spirits are Always Trying to Bring you Down’: Righteousness and Spirit Harassment among Latter-day Saints in Northern Utah,” *Journal of the American Academy of Religion*, fall, 1-18

Presentations

2022 “Where the Veil is Thin: Posthumous Baptism and the Gratitude of Spirits among Latter-day Saints in Utah” Paper presented at Society for Applied Anthropology, March

2021 “‘They Have Shown Me What I Need to Know’: Righteous Personhood and Spirit Encounters in Northern Utah” Paper presented at American Anthropological Association, November.

Next steps for your research process:

My research is mostly complete. The two articles have been accepted, and the book manuscript is complete and under contract with Oxford University Press. I am, however, finishing up research for another article on spirit children with two graduate students, who are assisting me with archival research and interviews. We expect this research to be completed by Spring 2023, when we hope to present a paper at the annual meeting of the Southwestern Anthropological Association. Following this, we will prepare a paper for publication in the journal *Anthropology and Humanism* or the new journal of the Mormon Social Science Association.

Future plans for publication and/or presentations:

I will be contributing to a roundtable on the Anthropology of Mormonism at the annual meeting of the American Anthropological Association in November 2022. My book with Oxford University Press should come out in fall 2023. One article is coming out this fall in the *Journal of the American Academy of Religion*, and another article has just been accepted by the *Journal of the Royal Anthropological Institute*, and should come out in 2023. As noted above, I am planning a conference presentation in spring 2023, and a final article based on this research to be submitted in summer 2023.

I would be delighted to present my work at the Charles Redd Center or elsewhere at BYU. I am frequently in Utah, and would welcome to show my gratitude to the Center by sharing the results of my research. Please feel free to contact me if this would be of interest.

Comments:

Thank you so much for supporting this research. It is often hard to find support for relatively inexpensive ethnographic projects, and the Redd Center's support has been invaluable. In addition to the financial support, it has been very helpful for my fieldwork to have support from a center at BYU--interviewees are often very pleased to learn that this research project was given the stamp of approval by BYU.



BYU Readd Center
Charles Readd Center for Western Studies

Award Report

Name:	John Dwight Hines	Email Address:	jdhines@pointpark.edu
Address:	201 Wood St. Pittsburgh, PA 15222	Phone Number:	4123928182
Project Title:	Rural Gentrification in a Time of Pandemic		
Organization/ Institution:	Point Park University	Submission Date:	10/16/2022

Name of Award Received:

John Topham and Susan Readd Butler Off-Campus Faculty Research Award

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

At the beginning of October 2022, with the funds I received from the Charles Readd Center, I initiated research on the ongoing causes and effects of rural gentrification on the Teton Valley of eastern Idaho. I am currently 10 days into that research. I have spent my time here surveying the landscape for the signs of and impacts of rural gentrification on this county and interviewing real estate agents, local officials, and residents to ascertain their understanding of the changes affecting this community.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Readd Center funds allowed me to secure accommodations for the three weeks that I sought to pursue fieldwork in Teton County, Idaho. The funds were invaluable in facilitating my time here; without them I would not have been able to spend as long a time in the area. As I have barely completed a week of work here, the results of my research are still not yet clearly discernible; however, they will hopefully be available to share and/or publication early next calendar year.

Publications and/or presentations based on your Readd Center research or program:

As previously noted, I have yet to complete my fieldwork, let alone begin a comprehensive analysis of it. Nevertheless, I anticipate that the data that I collected here in the next few weeks will be instrumental in the production of a presentation I have planned for the American Association of Geographers annual conference next spring as well as a subsequent publication upon which I intend to work later this fall.

Next steps for your research process:

The next step will be to complete the fieldwork I have initiated here in Idaho, as well as a subsequent, corollary research site I intend to visit in Colorado in November. Upon completion of those two phases of fieldwork, I intend to compile, analyze, and prepare the data for presentation and publication in the new year.

Future plans for publication and/or presentations:

As previously noted, once I complete my fieldwork and analysis of it, I intend to use it in the production of a presentation at the American Association of Geographers annual conference in March 2023 as well as a subsequent publication upon which I intend to work later this fall.

Comments:

I wish to thank the Redd Center for its support of my research.



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Award Report

Name:	Josh Clough	Email Address:	jjc@ou.edu
Address:	2626 McComb Rd Norman, Oklahoma 73026	Phone Number:	405-410-9834
Project Title:	Miss Indian Americas in Their Own Words		
Organization/ Institution:	University of Oklahoma	Submission Date:	10/08/2022

Name of Award Received:

John Topham and Susan Redd Butler Off-Campus Faculty Research Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The funds received from the Charles Redd Center were used to travel to Sheridan, Wyoming, and Crow Agency, Montana, in August of 2022. I examined documents related to the Miss Indian America Pageant and made several contacts with whom I will be conducting phone interviews over the next year. Because I previously had only period newspaper articles with which to inform my questions presented to former Miss Indian Americas, the material collected during my trip should allow me to ask more nuanced questions and thus enrich the final narrative considerably.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The archival sources consulted during the research trip provided clarity on several matters that had not been adequately explained by newspapers or contestants themselves. For instance, the pageant had been canceled several times during its thirty-plus year duration, but the details as to why the event was paused were murky. Examining financial documents and internal correspondence related to the pageant demonstrated that not only a lack of funding but also lukewarm community support for the endeavor prompted organizers to pause the event on more than one occasion. In addition, several ladies with whom I had spoken to previously had mentioned the degree of control exercised by the MIA governing body over the activities and speeches they gave during their year-long reigns. Documents found during my trip will allow me to craft a book chapter examining the power struggles between the Native contestants and the largely nonNative board. The relationship was by no means entirely antagonistic, but when it became contentious, the board's responses to challenges to their authority illuminate the state of race relations between whites and Indians generally in the 1960s and 1970s and call into question some of the stated goals of the pageant.

Publications and/or presentations based on your Redd Center research or program:

I have not yet published or presented on the subject but hope to begin writing after conducting interviews with living contestants with whom I have not yet spoken over the next nine to twelve months. I have been invited to join a monthly chat session with former MIAs and am going to be on a planning committee for a 70th year reunion of the pageant in Sheridan next summer. The more former winners/contestants I meet, the more impressed I am with what they have accomplished professionally post-pageant and their wonderful personalities (and memories).

Next steps for your research process:

I have spent two months organizing the documents copied at Sheridan and Crow Agency and have a substantial list of interviewees lined up for the next year. Because more than half of the pageant winners are no longer living, I am reaching out to surviving husbands, children, and friends to make sure these individuals are recognized and honored as well. This adds significantly to the number of interviews to be conducted, but it is the least I can do to honor the legacies of these fine ladies.

Future plans for publication and/or presentations:

Having just completed a book for the University of Nebraska Press over a Native political action group in the 1920s which left behind no archive and very little documentary evidence of its existence, I am astounded at the amount of material with which I have to work on this project. A substantial monograph could have been written based solely on interviews, but with the rich trove of documents found at Sheridan and Crow Agency, this book will offer a detailed analysis of not only the women's time as Miss Indian America, but also the application process for the pageant, changes made over time to the contracts signed by the pageant winners, and the factors that led to the event's move to Bismarck, North Dakota, and eventual closure for good in the late 1980s.

Comments:

I am humbled and grateful for the financial assistance provided by the Redd Center for this project. The funding has allowed me to renew old acquaintances with individuals I met years ago while working on my dissertation. and offers me the chance to make many new acquaintances. By writing this book about the Miss Indian America pageant, I hope to in some small way give back to the many Native folks who have shared their knowledge and stories with me during my academic journey.



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Award Report

Name:	Katherine Benton-Cohen	Email Address:	kab237@georgetown.edu
Address:	3700 O St NW WASHINGTON, DISTRICT OF COLUMBIA 20057	Phone Number:	2023747399
Project Title:	Copper Money: The Phelps Dodge Family Empire		
Organization/ Institution:	Georgetown University	Submission Date:	10/12/2022

Name of Award Received:

John Topham and Susan Redd Butler Off-Campus Faculty Research Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Thank you for these funds. The bulk of them went toward the first research trip I had taken since before Covid. From July 7-13, 2021, I spent a week, and almost 800 miles of driving, in Clifton-Morenci, Playas, and Bisbee, copper mining and smelting towns of Arizona and New Mexico. It was glorious and productive. This was my first trip to Clifton-Morenci, and I made important connections and inroads on research meeting with the town's city manager, local historians, participants in its infamous 1983 strike, and going on a nearly three-hour Jeep tour of one of the world's largest active mining sites with a retired Phelps Dodge employee. It helped solidify new research avenues for me into the 1983 strike. From there I drove to remote Playas, New Mexico, for a tour of a closed (and super creepy) smelter town now owned by New Mexico Tech University. It consists of hundreds of buildings and is mostly abandoned, although there is a training center for the military and they occasionally billet National Guard troops there. I received a two-hour tour of the facility from its manager, a former state legislator from a Silver City mining family. I concluded with a brief trip to Bisbee, Arizona, with archival research into company records and oral histories. I took a second trip to Arizona from October 3-7, to attend the retired miners' reunion to meet potential oral history participants and an employee of PD's successor, Freeport McMoran, who grew up in Playas and Bisbee (as did his wife, who also grew up in another Arizona mining town, Ajo). In between, I lived in New York August 2021 conducting research into the Phelps Dodge family's nineteenth-century business records as well as the papers of the American University of Beirut, run by the Dodge Family.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

These research trips advanced my research by leaps and bounds. They jumpstarted the long fallow period of Covid, when I had a young child at home and was still teaching and running the graduate program full-time. They re-energized me, reassured me of the importance of the project in general, and of Clifton-Morenci, Playas, and the 1983 strike in particular. Indeed, they were transformative for the project: I have added Playas as a major component of the project, I have thus realized that late 20th century environmental politics were critical, I conducted several important oral histories, and I saw a path forward to a book that builds on my older work but pivots in a crucial way to new questions about the history of late capitalism. I have also continued conversations into how I can make this research accessible to a larger public.

Publications and/or presentations based on your Redd Center research or program:

Because I am working on a trade book, I'm not focused on peer-reviewed articles for this project. I have, however, made several presentations and given papers related to my new research. These include:

"Seeking the History of Phelps Dodge," Copper Queen Library (Bisbee Arizona) Zoom Talk, July 2022.

Paper given, "Was Phelps Dodge a Railroad Company?", Business History Conference Paper, Mexico City (virtual), April 2022.

"Clemente Soto's Scrapbook," unpublished paper presented to History Faculty Workshop March 24, 2022.

"In the Middle: Being a Historian at Middle Distance, Middle Age, and in the Middle of It," Pflaum Endowed Lecture, Invited Speaker, Dickinson College Department of History, April 2022.

More to come!!!

Next steps for your research process:

Working on a book proposal (trade book proposals are much longer) and writing!

Future plans for publication and/or presentations:

Writing! I'll be in touch when this thing is a book!

Also here is a link to the talk at the Copper Queen Library if that's useful.

<https://www.youtube.com/watch?v=5oMOrC8awAQ>

Comments:

It's wonderful that you offer this research to scholars at all levels outside of the BYU community. It was really rocket fuel for me and I'm very grateful.



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Award Report

Name:	Michael Amundson	Email Address:	Michael.Amundson@nau.edu
Address:	4532 S Kathy Road Flagstaff, Arizona 86005	Phone Number:	928-326-3309
Project Title:	On the Trail of Clyde A. McCoy in Bryce and Zion National Parks		
Organization/ Institution:	Northern Arizona University	Submission Date:	11/02/2022

Name of Award Received:

2018 Charles Redd Center Faculty Research Grant

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

After postponing my award for four years because health issues first and then Covid 19, I wrote to Brenden Rensink asking if I could change the focus of my project from rephotographing scenes in Zion and Bryce Canyon National Parks to conducting research and rephotographing for the same project in Indiana, Michigan, and Iowa. After he responded positively, I used the \$700 grant to rent a car and drive from my home in Flagstaff, Arizona, to Fort Wayne, Indiana, then to Holland, Michigan, and finally to Marengo and Grinnell, Iowa. The trip turned out to be very productive. I was able to see where my subject, Clyde McCoy, had lived and worked in Fort Wayne, Indiana, rephotograph sites there and another in Holland, Michigan, where I rephotographed Rita Hasley who was 5 years old when McCoy photographed her in 1940 and is now 87.

After Holland, I traveled to Grinnell, Iowa where McCoy attended college and found a few items at its archives about where he lived while attending school and rephotographed the one surviving building from 1940. I then went to the small town of Marengo, Iowa, where McCoy had graduated from High School in 1922. Their Carnegie Library had copies of his 1922 high school yearbook as well as a searchable online version of the town newspaper, where I found two dozen articles mentioning McCoy that helped to fill in research gaps and even provide new leads. For example, one article mentioned that he had worked for the B&O Railroad and so I was able to contact the B&O museum archives, and get McCoy's employment records.

I drove 3800 miles between May 30 and June 8, 2022 and appreciate the Redd Center's assistance and flexibility.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I was able to see first hand where McCoy had grown up, went to college, and lived and worked. I also was able to access archives in Iowa not accessible from Arizona and finally I was able to rephotograph locations in Indiana, Michigan, and Iowa. This part of my project had been delayed four years because of the pandemic so it was great to finally be able to get there.

Publications and/or presentations based on your Redd Center research or program:

"America in 1940 in 3D color: The Mysterious Collection of Clyde A. McCoy" presented at the The National Stereoscopic Association's Sessions on the History of Stereoscopic Photography at the National Stereoscopic Association's Annual Conference, 3-D Con 2022, held August 1-8 in Tacoma, Washington. <https://3d-con.com/history.php>

I have been invited to submit images and a recap of my presentation to Stereo World, the official publication of the organization for its recap of the convention as well as submit an article on the project as well.

Next steps for your research process:

I continue to do 3D repeat photography, in fact completing more of it at the Western History Association conference in San Antonio this year. I have plans to do more in Los Angeles and then to start writing a book on the project.

Future plans for publication and/or presentations:

Two articles for Stereo World and then hopefully a book.

If you'd like me to come to Provo and give a 3D presentation, I'd be glad to do it! I have a box of 3D glasses so everyone could see it in 3D.

Comments:

I really appreciate the Redd Center's patience with me on this project and then its flexibility in letting me change the focus a bit to make it work.



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Award Report

Name:	Sandra Mathews	Email Address:	mathewsbenham@yahoo.com
Address:	PO Box 57361 Lincoln, NE 68505-7361	Phone Number:	402-416-1551
Project Title:	"Indigenous Land and Sovereignty: Confronting Settler-Colonialism of Spain, Mexico, and the US in New Mexico, 1680–1870"		
Organization/ Institution:	Nebraska Wesleyan University	Submission Date:	10/14/2022

Name of Award Received:

John Topham and Susan Redd Butler Off-Campus Faculty Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

This funding allowed me to spend uninterrupted time during a writing retreat (that I actually took in March 2022 instead of Summer 2021). During this writing retreat, I sifted through letters/journals/diaries, read newspaper articles I had collected at the New Mexico State Archives, as well as my original dissertation. This research allowed me to compile a 45 page detailed timeline and diagram connecting key figures to the complicated social network that developed during the Mexican and early U.S. Territorial period of New Mexico. The timeline also included in less detail key events and laws from the 1590s until the late 1990s for context. This work allowed me to step back from the political, social, and economic details of daily interactions to look at the broader landscape of the question of Indigenous sovereignty juxtaposed with settler-colonial policy, expansion, and encroachment.

This work allowed me to conceive of the entirety of the project and plot out chapters (which in turn gave me the ability to apply for an NEH Fellowship, by the way). THANK YOU!

This work also allowed me to conceptualize the one chapter I had left out of the co-authored (with Bruce Gjeltema, UNM-Gallup) textbook on New Mexico history that I forgot to include in my portion; shockingly, a chapter on Land Grants of New Mexico.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The funds gave me uninterrupted time away from all responsibilities so that I to pour through my research that I had collected over the past four years. I actually learned about several new friendships, and potentially conflicts of interest in land decisions, that will potentially alter the manner in which I write the chapter on what I may term New Mexico's first Santa Fe Ring. As a result of this uninterrupted time, I was able to create a web of connections to accompany that timeline that illustrated the connection between Donaciano Vigil and John S. Watts, as well as understand the impossibility of the timing of the Cruzate (1689 land grant) documents appearance in Valencia County purported from El Paso just 20 days from when they were created.

Publications and/or presentations based on your Redd Center research or program:

My publications are not ready yet, as I have much more work to do on this project. I did utilize some of this research for the paper I wrote for the WHA in San Antonio. My paper entitled, "Indigenous Identity v. Settler Colonialism: Hawai'i and New Mexico, A Study in Determinism," unfortunately will not be presented Saturday. Unfortunately, several panelists had serious issues that resulted in a decision to cancel our panel a few days before the WHA. I have resubmitted my paper for the Historical Society of New Mexico Conference in March/April 2023 in Silver City, New Mexico.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Thank you so much for the opportunity to have time away for a writing retreat. My campus professional development does not cover writing retreats (although they will cover research and presentations), and this is one of the most important things for scholars--the time away to contemplate, ponder, and create. I cannot thank the Redd Center and the John Topham and Susan Redd Butler Off-Campus Faculty Award committee for supporting my research.



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PUBLIC PROGRAMMING AWARD

BOISE ART MUSEUM, “MANY WESTS: ARTISTS SHAPE AN AMERICAN IDEA”

HIGH DESERT MUSEUM, “LESLIE MARMON SILKO LECTURE AND DISCUSSION”

JOHN HARDISON REDD AND ELIZABETH HANCOCK FAMILY ORGANIZATION, “SPANISH FORK HISTORICAL ROAD TOUR—HIGHLIGHTING THE HISTORY OF THE JOHN H. REDD HOUSEHOLD”

MORMON HISTORY ASSOCIATION, JOURNAL OF MORMON HISTORY

NORTHERN ARIZONA UNIVERSITY, “BIENNIAL CONFERENCE: VOICES FOR THE AMERICAN SOUTHWEST” (DELAYED BY COVID FROM 2020)

NEVADA HUMANITIES, “NEVADA READS 2021: CULTIVATING ENVIRONMENTAL LITERACY”

ROCKY MOUNTAIN AMERICAN RELIGION SEMINAR, “TEACHING HARD HISTORIES: RACE, RELIGION, AND COLONIALISM IN UTAH”

SPRINGVILLE MUSEUM OF ART, “REINTERPRETING CYRUS DALLIN’S ‘MASSASOIT’”

THE CENTER FOR PUBLIC LANDS, “THE CO-MANAGEMENT OF ANCESTRAL, PUBLIC LANDS FIELD SCHOOL AT BEARS EARS NATIONAL MONUMENT”

THIS IS HER PLACE PODCAST, “THIS IS HER PLACE PODCAST—SEASON 2”

UTAH HUMANITIES COUNCIL, “THE CHARLES REDD CENTER FOR WESTERN STUDIES AUTHOR”

WESTERN LITERATURE ASSOCIATION, “PALIMPSESTS AND WESTERN LITERATURES CONFERENCE”

Award Report



BYU Redd Center
Charles Redd Center for Western Studies

Name:	Boise Art Museum	Email Address:	melanie@boiseartmuseum.org
Address:	670 Julia Davis Drive Boise, ID 83702	Phone Number:	(208) 345-8330 x 111
Project Title:	"Many Wests: Artists Shape an American Idea"		
Organization/ Institution:	Boise Art Museum	Submission Date:	02/09/2023

Name of Award Received:

Public Programming

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The Charles Redd Center for Western Studies provided an award of \$1,500 to support Boise Art Museum's (BAM) exhibition, "Many Wests: Artists Shape an American Idea," which was on view from July 31, 2021 to February 13, 2022. 12,435 people visited the exhibition at BAM, a significant number given pandemic conditions. The exhibition, co-organized as an audience development and collection sharing initiative by five nationally accredited art museums, offered multiple views of "The West" through the perspectives of 48 modern and contemporary artists. Their artworks question old and racist cliches, examine tragic and marginalized histories, and illuminate the many communities and events that continue to form this region of the United States. The exhibition explored the specific ways artists actively shape our understanding of the life, history and myths of the American West. The exhibition will now travel to the Whatcom Museum of Art in Bellingham, Washington, followed by the Jordan Schnitzer Museum of Art in Eugene, Oregon, Utah Museum of Fine Art in Salt Lake City, Utah, and finally, the Smithsonian American Art Museum in Washington, D.C.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

"Charles Redd Center funds helped BAM to print exhibition announcements, text panels, artwork labels, and collaborate with artists with works in the exhibition to record an audio guide. Participating artists included Corwin Clairmont, Damian Charette, Gail Tremblay, Joe Feddersen, Marie Watt, Marita Dingus, Melanie Yazzie, Molly Murphy Adams, Roger Shimomura, and Wendy Maruyama. The artists each responded to a set of questions - what motivated the creation of the work, how their experience of place (geography, culture, history, etc.) informed their art making, and the ways their work expresses ideas about, or relates to, the West.

"Many Wests" proposed that the American West is a complex cultural construct built by the popular imagination as well as politics and that artists reveal and assert its multifaceted and always-evolving nature. By sharing multiple perspectives, the exhibition increased visitor understanding of multiple narratives of the West, especially Black, Indigenous, Asian American, Latinx, and gendered experiences. The printed materials provided critical context for the artwork on display throughout the exhibition, and the audio guide helped to deepen audience connections to, and understanding of, the works on view."

Publications and/or presentations based on your Redd Center research or program:

In partnership with the Boise Philharmonic, a free community concert took place at BAM on February 5, 2022, "Music of Remembrance." Drawing parallels between music and visual art encouraged further exploration and deeper understanding of the concepts within "Many Wests." Roger Shimomura and Wendy Maruyama's large-scale works of art tell the relatively unknown story of the perspectives of Japanese

Americans who were incarcerated at Camp Minidoka in Idaho, as a result of Executive Order 9066. Roger Shimomura lived in Camp Minidoka as a toddler and his painting lays bare the realities of this time. Wendy Maruyama's sculpture visually represents the 11,000 people who were imprisoned at Camp Minidoka, offering a poignant reminder for all of us of the people whose lives were forever changed by this world event. Composer Paul Chihara was one of 120,000 Japanese Americans who were forced into incarceration camps during World War II. His work "Minidoka (Reveries of...)" is in remembrance of his years in Camp Minidoka. Chihara was in attendance at the concert and shared his lived experience before the piece was performed.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

BAM is grateful for the support of the Charles Redd Center to help make groundbreaking exhibitions such as "Many Wests" possible. Thank you!



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BYU Readd Center
Charles Readd Center for Western Studies

Award Report

Name:	Dana Whitelaw	Email Address:	dwhitelaw@highdesertmuseum.org
Address:	59800 US-97 Bend, OR 97702	Phone Number:	(541) 382-4754 Ext. 326
Project Title:	Waterston Desert Writing Prize Literary Event		
Organization/ Institution:	High Desert Museum	Submission Date:	10/13/2022

Name of Award Received:

Charles Readd Center Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

On October 4, 2021, the Museum hosted a live streaming event that celebrated the power of the written word and showcased literary excellence in desert-themed nonfiction. Featuring readings and discussion by Waterston Desert Writing Prize guest judge Liz Woody (Warm Springs), winner Ceal Klinger, and finalists Joe Wilkins and Charles Hood, this event explored the vibrant literary tradition of desert writing.

The Waterston Desert Writing Prize winners and guest judge offered a wide range of perspectives and backgrounds on desert landscapes in the intermountain west. For example, Woody, a critically acclaimed writer who has written extensively about her relationship to place, described the High Desert as an ecosystem that is both powerful and fragile and read a poem that explored themes of homeland, ancestry and displacement. The 8th Poet Laureate of Oregon, Woody won the American Book Award from the Before Columbus Foundation and the William Stafford Memorial Award; in addition, she was a finalist for the Oregon Book Award. Wilkins read from an essay about his boyhood on a sheep and hay ranch in eastern Montana. Hood, who lives in the Mojave Desert, read a piece celebrating the small details of the desert environment where he frequently walks. Finally, Klinger's winning piece, "How We Live With Each Other," elucidated the intricacies of how animals, plants, organisms, and environmental forces are interconnected at the overlap of the Mojave and Great Basin deserts.

While we originally planned to host this event in person, the fall 2021 increase in COVID-19 cases required us to adapt our plans. We worked closely with the participating writers, however, to produce an event that would support our place-based mission and our goal of meaningfully engaging people with the High Desert through the literary arts. The virtual format expanded our ability to reach audiences from various locations.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Readd Center funds were critical in enabling us to recruit a well-known guest judge such as Liz Woody and provide a free program for our audiences. Although we intended to host an in-person event featuring Leslie Marmon Silko as a guest judge, unexpected challenges forced us to revise our plans. Increased COVID-19 regulations following the rise of the Delta variant in fall 2021 limited our ability to hold in-person events, and last-minute schedule changes from Silko required us to shift our plans and find a new guest judge. Despite these obstacles, we successfully accomplished the event goals, including connecting people and place through the power of the written word; sparking meaningful dialogue about the region; raising awareness of nonfiction works inspired by desert landscapes in the intermountain west; and highlighting Indigenous ways of knowing about this region.

Since recently adopting the Waterston event, we have worked to expand the voices featured through this literary programming. Through Woody's role as a guest judge and reader, the event successfully elevated Indigenous ways of knowing about the intermountain west and the Plateau region. In addition, the writers' varying backgrounds and perspectives raised awareness of the range of work inspired by the region's complex desert landscapes. The presentation sparked meaningful dialogue among participants about topics such as fragile desert ecosystems; cultural misunderstandings about rural desert communities; and the often-unseen richness of nocturnal desert landscapes. Attendees participated in the dialogue by submitting questions.

While the pandemic created multiple obstacles, we learned the value of adapting our approaches and collaborating with partners to develop innovative solutions and facilitate shared goals. For example, Klingler joined the broadcast live from the Museum, while Wilkins and Hood joined remotely. The recording was posted on the Museum's YouTube page , making this high-quality literary event widely accessible to broad audiences.

Publications and/or presentations based on your Redd Center research or program:

The Charles Redd Public Programming Award facilitated a one-hour live streaming presentation that is still available on YouTube: <https://www.youtube.com/watch?v=FCmO11ua48>. In addition, the Waterston Desert Prize winner and two finalists engaged in a small-group Zoom conversation with the Waterston advisory committee facilitated by poet and writer Ellen Waterston. This conversation enabled the writers to directly engage with committee members who had read their work, creating additional opportunities for literary dialogue and community-building.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Because of the support this program has received and its growing recognition in the community, the audience for the Waterston Desert Writing Prize event has expanded significantly; in 2022, the event reached an audience of over 130 people. We are excited to continue growing this event. Thank you for helping us expand community access to outstanding literature that showcases the role of desert landscapes in the High Desert.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Tonya Saxton Reiter	Email Address:	tonya.colorllc@gmail.com
Address:	2640 South 1900 East Salt Lake City, Utah 84106	Phone Number:	801.755.0574
Project Title:	Blessed in House and Habitation-A Journey into the Redd Past		
Organization/ Institution:	John Hardison Redd Family Organization	Submission Date:	10/16/2022

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

As part of the ongoing goal of discovering and sharing an accurate history of the John Hardison Redd household, the members of the family organization board wanted to direct the wider family to sites in Spanish Fork, Utah that were important to the Redd family experience in early Utah Territory.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Videography, we quickly learned, is very expensive when done well. The generous grant we received from the Redd Center allowed us to produce a product that we could proudly share.

Publications and/or presentations based on your Redd Center research or program:

We produced a professional video tour of Spanish Fork that enabled family members all over the world to participate in a family reunion. It introduced them to the place where the Redd family first settled after making the decision to leave the South and gather with the Saints. While guiding family members to various places in the area, we were able to narrate the story of John Hardison Redd and his family based on more recent historical research. Much of the older histories included factual errors that we wanted to correct in this presentation. While celebrating the contributions of the organization's namesake, we hoped to present an honest look at the man and some of the complexities of his story.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Thank you for the grant!



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Christine Blythe	Email Address:	christine@mormonhistoryassociation.org
Address:	3214 N University Ave #406 Provo, Utah 84604	Phone Number:	8017934966
Project Title:	Opening Reception and Panel Discussion		
Organization/ Institution:	Mormon History Association	Submission Date:	12/14/2022

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The Mormon History Association held its annual conference opening reception, which for 2021, highlighted the impact of Mark Hoffman's forgeries on the Church of Jesus Christ of Latter-day Saint and the Mormon history community with presentation by an expert-panel. The event was held in Utah Olympic Park, which also gave attendees a unique look into the local landscape of Utah's Park City. In the wake of COVID, the Redd Center made it possible for MHA to host the event outdoors and maintain safety protocols.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The panel reflected on and was conversant with a 1986 panel about the impact of Mark Hoffman in Mormon Studies entitled "The Document Diggers and Their Discoveries" and the newly released docuseries "Murder Among the Mormons."

Publications and/or presentations based on your Redd Center research or program:

The opening reception is one of the most well attended (and only free-public programming) events of the annual Mormon History Association Conference.

Expert-panel on Mark Hoffman

Next steps for your research process:

NA

Future plans for publication and/or presentations:

NA

Comments:

The Mormon History Association would like to express its sincerest appreciation for the support of the Charles Redd Center.



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Lara Schmit	Email Address:	Lara.Schmit@nau.edu
Address:	Campus Box 6077 Flagstaff, AZ 86011	Phone Number:	303-704-2779
Project Title:	Biennial Conference (Colorado Plateau) Keynote Speaker		
Organization/ Institution:	Northern Arizona University	Submission Date:	3/27/2022

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The Charles Redd Center's \$3000 Public Programming grant allowed the Biennial Conference of Science and Management for the Colorado Plateau and Southwest to host an evening with Stephen Pyne, a noted fire historian, who gave a talk on Monday, September 12, which was open to conference participants and the public. The talk was entitled The Pyrocene Comes to the Plateau.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Redd Center funds allowed conference participants and the public to gain a better understanding of how human actions have created the current wildfire conditions that are not ravaging the western United States and many other parts of the world. Dr. Pyne also discussed fire policy and suggest possible actions that could improve the way fire is managed. Wildfires and their causes and possible responses are of tremendous interest to resource managers in the Southwest, which is the primary audience for the Biennial Conference. Since our programming goal is to provide useful information to resource managers, the Redd Center support helped use reach this goal. The conference was deemed very successful. We also appreciated that Dr. Brenden Rensink served on the conference planning committee and helped shape the conference program.

Publications and/or presentations based on your Redd Center research or program:

Public keynote presentation for the Biennial Conference: Dr Stephen Pyne, Monday, Sept 12, 7 pm, Prochnow Auditorium, Flagstaff, AZ - The Pyrocene Comes to the Plateau (free to conference participants and public)

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

The Biennial Conference is very grateful to the Charles Redd Center for its continues support, which has allowed us to host thought-provoking speakers for public keynote event. We very much enjoy working with Dr. Rensink and appreciate his contributions, particularly ideas for speakers.



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BYU Readd Center
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Award Report

Name:	Nevada Humanities (Christina Barr)	Email Address:	cbarr@nevadahumanities.org
Address:	P.O. Box 8029 Reno, NV 89507	Phone Number:	775-784-6587
Project Title:	Nevada Reads 2021 – Cultivating Environmental Literacy		
Organization/ Institution:	Nevada Humanities	Submission Date:	10/14/2022

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

Funding was used to support Nevada Humanities' Nevada Reads programs that encouraged Nevadans to experience the outdoors, with topics that address the value of our public lands, environmental stewardship and sustainability in the West, and how creativity can foster deeper relationships with wild places and landscapes.

Self-Guided Walking Tours & Guide: Nevada Humanities published *Sagebrush to Sandstone: A Humanities Guide to Outdoor Nevada*. Part nature guide, part poetry book, and part workbook, this 100-page guide is composed of poetry, art depicting Nevada's natural beauty, as well as creative prompts accompanied by scientific text to inspire self-directed walking experiences and more active and reflective engagement with the world around us. Nevada Humanities printed 1,500 copies of the book and it has been distributed for free to Nevadans across the state, and is also available for free download from our website at <https://www.nevadahumanities.org/sagebrush-to-sandstone>. The publication also inspired a class activity at Innovations High School, an alternative high school in Reno, Nevada. Students created their own walking tour of downtown Reno, articulating a sense of place while referencing the flora and fauna they saw along the way; 45 students participated.

Writing Workshops: Nevada Humanities produced online writing workshops taught by author Kendra Atleework. Workshops took place on 7/10/21; 7/17/21; and 7/18/21 - 25 participants in total.

Education Programs and Creative Education Workshops: Nevada Humanities produced 24 creative workshops led by artists, naturalists, and nature journalists focused on cultivating skills and toolsets for the observation and depiction of nature. All workshops were hosted virtually on Zoom. Total workshop participants = 443. Nevada Humanities also produced 17 readings, book club visits, and conversation programs which served 589 audience members.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Funding from the Charles Readd Center allowed Nevada Humanities to think broadly about narrative storytelling about the West, creating a multitude of programs that could reach Nevadans in different ways. This program aligns closely with the Charles Readd Center's important work, particularly the Center's interdisciplinary approach to understanding and appreciating the West.

This funding also allowed us to foster strong partnerships with organizations around the state, including Innovations High School, Artown, Black Rock Press, the University of Nevada, Reno, The Discovery, Truckee Meadows Park Foundation, and the Desert Research Institute.

Publications and/or presentations based on your Redd Center research or program:

Kuo, Kathleen and Scott Dickensheets, eds. Sagebrush to Sandstone: A Humanities Guide to Outdoor Nevada (Nevada Humanities: Halcyon, 2021). <https://www.nevadahumanities.org/sagebrush-to-sandstone>

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Nevada Humanities is grateful for the Charles Redd Center for Western Studies' support for this programming. The funding allowed us to reach deeper into our work and to create programs and a publication that transformed our work in Nevada and aided many Nevadans in their pandemic journey. Thank you!



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Award Report

Name:	Joseph R. Stuart	Email Address:	joseph.stuart@byu.edu
Address:	463 Foxchase Lane Saratoga Springs, UT 84045	Phone Number:	8019790355
Project Title:	Indigenous Religions		
Organization/ Institution:	Rocky Mountain American Religion Seminar	Submission Date:	11/09/2022

Name of Award Received:

Programming Grant

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I have hosted one Indigenous scholar at the Seminar and have made plans to host a second in January 2022.

The first guest, Natalie Avalos, is crafting a comparative study of Tibetan Buddhism and Native American Religions, analyzing how settler colonialism and resilience act across time and space. Professor Avalos, per several comments from participants afterwards, made compelling arguments about how Native American Religions help reveal how politics and faith (broadly defined) contribute to the unique cultures of the American West. In particular, it was fascinating to learn how Native Americans create their own visions and autonomy through commitments to sovereignty and communal uplift.

The second guest, Abel Gomez, will share research on Roman Catholic missions, colonialism, and Indigenous ethics of survival. Like Dr. Avalos, Dr. Gomez's work shines light on how religion and the state interact with one another. I am particularly excited to discuss his project in light of how Roman Catholicism *was* the state at the time of his study in what was then called "New Spain" and how that carries forward to the present day. How, for instance, did a Roman Catholic vision of church and state differ from Protestant conceptions in other regions across the United States? In doing so, I look forward to learning about how the West was shaped not just by Protestant, Latter-day Saint, and Catholic individuals, but how their conceptions of religion, politics, and space shaped (and shape) the American West's unique place in American religious history.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I learned much about the American West and the Indigenous peoples that inhabited and inhabit it, still. I see how religion and conceptions of government, worship, community, and individual benefit have been imagined in radically different ways than I had previously appreciated. Dr. Gomez's work, which I've read in draft but have not yet discussed at the seminar, has helped me to think about different religious structures of governing and how it creates opportunities for the marginalized to push back.

While not the explicit purpose of the Seminar, I also gained insight into my own research on African Americans in the West. Professor Avalos's research helped me think about community resilience through individual religious practice and how the desire for sovereignty is directly tied to the immediate and everyday. I gained new perspectives that are sure to push my own research agenda as a postdoctoral further--learning about the American West as a region helps me better understand how race and religion work in the United States write large.

Publications and/or presentations based on your Redd Center research or program:

Participants have planned conference panel proposals for the Western History Association and the American Academy of Religion.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Thank you so much for funding the Rocky Mountain American Religion Seminar! It has deepened my appreciation for the American West and has made me a better researcher, educator, and citizen.



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BYU Redd Center
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Award Report

Name:	Springville Museum of Art	Email Address:	jsokol@springville.org
Address:	126 E 400 S Springville, UTAH 84663	Phone Number:	8014915716
Project Title:	Reinterpreting Cyrus Dallin's Massasoit		
Organization/ Institution:	Springville Museum of Art	Submission Date:	10/13/2022

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

We were able to use research to share the true identity and background of Cyrus Dallin's sculpture, Massasoit. Research showed that Massasoit was not the name of the Native American leader Cyrus depicted, but his title. The word "Massasoit" is the Wampanoag term for "leader" or "chief". His name is Ousamequin, and he was a sixteenth century leader of the Wampanoag tribe from New England. We researched different aspects of this sculpture such as the pipe he is holding and the beads on his necklace and compared them to both Ute and Wampanoag cultures along with other native tribes to allow visitors to examine how Cyrus may have been impacted by his childhood in Utah while creating a sculpture in New England. This information allowed us to use supplementary images and information that gives broader context to help viewers differentiate the sculpture's artistry from actual history. In planning this reinterpretation, we met with local Indigenous community members and learned from them to improve the new interpretation. This feedback was crucial to curate and update this exhibition in a more thoughtful and accurate way.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

For this project, our main goal was to update the interpretation of Cyrus Dallin's Massasoit so the viewer would have a more correct understanding of who the sculpture represents and what it truly depicts. The previous interpretation did not reflect museum best practices and current scholarship on this artwork. Many visitors believed the sculpture to be a Utah Native American Chief named Massasoit. We were able to create new labels and panels for this artwork that clarified the name of the Indigenous leader as Ousamequin. We specifically used Redd Center funding to create content for our digital interactive interpretative. We were able to fund VR Wizards to film and produce the content from our research that is now accessible on a digital tablet at the front of the gallery that visitors can interact with in order to explore and learn more about this artwork. This is also available on mobile devices via QR code. This interactive allows a 360 view of the sculpture and a feature to zoom in on specific parts of the sculpture with information and more context for each individual part. These clickable points on the screen also provide thoughtful prompts that challenge the viewer to explore and consider deeper thoughts about the sculpture and the world we live in. This engaging content has been funded by this grant and allows a better way for visitors to deepen their understanding of Utah, the American West and the Wampanoag perspectives.

Publications and/or presentations based on your Redd Center research or program:

We recently held an "Evening for Educators" through our POPS programming and discussed the reinterpretation of Cyrus Dallin's Massasoit project with Brenda Beyer, member of the Navajo Nation and the program coordinator for the Native American Curriculum Initiative at BYU Arts Partnership. In workshops and a keynote, we educated teachers and community members about our research and

the process we followed in working with local indigenous community members on the new interpretive. This was a meaningful teaching tool. This discussion presentation is here: https://1drv.ms/v/s!AnkyXPEPnT_Wj291cKvHtV87LFfe?e=zRjTwC as well as a ksl article that mentions our project. <https://ksltv.com/477393/native-americans-will-also-gather-for-thanksgiving-but-perhaps-for-a-different-reason/?fr=operanews>

PLEASE reach out to me if the link to the video does not work. It can be emailed.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

Emily Larsen (Springville Museum of Art), Leslie Makai Gleaves (Springville Museum of Art) and Brenda Beyal (BYU ARTS Partnership) will present “From Massasoit to Ousamequin” a workshop about their research and project at the Utah Museums Association Conference held at the Provo Marriott on Wednesday, October 26th from 10:30 am – 11:30 am. This presentation will be in person, virtual and recorded. We can submit a recording to the Redd Center after the conference.

Comments:

Thank you for your support! In conjunction with this project we also opened Contemporary Voices: Native Utah Artists. This exhibition celebrates the work and voices of a selection of contemporary Native Utah artists. These artists work with a variety of mediums, styles, subject matters, and themes. Their work shows the vibrancy of artmaking and creativity in Utah’s Native communities. They represent only a fraction of the artmaking by Native artists in the State today. The show is open from September 14th to December 24th, 2022. We invite you to this and to experience our new gallery featuring Cyrus Dallin's "Massasoit".



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Center for Public Lands	Email Address:	centerforpubliclands@western.edu
Address:	1 Western Way, Kelley Hall Gunnison, CO 81231	Phone Number:	970-943-2233
Project Title:	Public Programming for the Bears Ears Field School		
Organization/ Institution:	Western Colorado University	Submission Date:	01/28/2023

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

In April 2022, Western Colorado University, the Center for Public Lands, and the National Geographic Society held a weeklong field school at Bears Ears National Monument, a site where the concept of co-managed public lands has risen to the national stage. Co-management, in this context, is the practice of sharing power for decision making related to land management actions. At the field school, diverse parties of Tribal leaders, federal land managers, community members and interested stakeholders grappled with the complexities of managing contested landscapes in a tense political climate and how to support co-management of traditional Native homelands. The field school also engaged university students in a unique course on co-managing public lands between federal agencies and Tribal groups. A secondary goal of the field school was to develop and assess learning materials on co-management and lessons learned from Bears Ears, which can be shared to train current and future land managers. The diverse voices of the field school explored case studies to contribute to this learning and training resource, which aims to prepare land managers for the work of co-managing lands.

While not a formal research project, the process of planning and presenting the Bears Ears Field School cultivated knowledge of the complexity of collaborative management. Field school participants spoke of the importance of building relationships by spending time together, enacting fundamental skills of listening and respect. While an initial goal of the project was to share practical actions, policy interventions, and mechanisms to establish collaborative agreements, the multi-year experience instead shifted towards building informal networks, igniting conversation, listening to stories, and creating connections. The products created from the field school aim to support this type of learning, telling the stories of people and place that are at the center of management practice.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Bears Ears Field School faced numerous setbacks due to the COVID-19 pandemic, and Redd Center funding enabled the Center for Public Lands to adapt original plans to achieve the curriculum goals while expanding benefits for those unable to attend. We were also able to hold a unique preparatory event engaging the Ancestral Lands Conservation Corps (ALCC) in a site visit with students in the co-management graduate course. Over 90% of participants to the ALCC are Native American youth residing on reservations and the funding from the Redd Center enabled us to collaborate with these invested young people. Students worked alongside an ALCC crew at Bears Ears for five days, learning not only their approach to conservation work and restoration, but also their connections to place and understanding of the landscape. Their stories laid the foundation for curriculum development. In addition, ALCC participants visited Western Colorado University, where they attended classes and had a college experience, earning university credit for their Bears Ears learning. Importantly, they also participated in a campus-wide event about collaborative management and connection to place, attended by more than 100 members of our campus community.

Redd Center funds also enabled us to record presentations at the field school. Documenting the thoughts and words of Indigenous collaborators allows us to honor not only the people sharing the words but the content and the value of the words themselves. These activities transformed a singular event into a multi-year learning experience for diverse audiences, which aligns well with the topic of co-management. Both organizers and participants have learned that the work to implement impactful collaborative management will continue for years, and the need to cultivate a spirit of lifelong listening, learning, and doing underlies this work. The public curriculum is one step towards this movement.

Publications and/or presentations based on your Redd Center research or program:

Through the extended planning of the field school, presentations have taken place on multiple occasions, both in the field, online and at Western Colorado University. These have ranged from presentations on site at Bears Ears to the audience of field school participants, ALCC members, and partners/stakeholders. Presenters have included voices from groups including Women of Bears Ears, the Bears Ears Intertribal Coalition, Friends of Cedar Mesa, San Juan County Commission, and federal land management agencies. Former Secretary of Interior Sally Jewell even presented to an audience of students, ALCC members, and campus community.

Presentations at the field school and interviews with participants were recorded and are being archived at https://vimeo.com/user186203470?embedded=false&source=owner_name&owner=186203470

All aspects of the curriculum including lesson plans, visual aids, videos of interviews, case studies, learning resources are being made available for public access. Our goal is to launch the curriculum in February 2023. We will invite agency employees, environmental organizations, and students to participate in the online course. This format will make the curriculum available to broad audiences, spreading the learning opportunities beyond the Four Corners region. Our intent is that the curriculum will begin to infuse knowledge and skills throughout classrooms of future land managers, as well as the current agency workforce, enabling cultural change to take hold.

Next steps for your research process:

n/a

Future plans for publication and/or presentations:

n/a

Comments:

The Online Curriculum will launch in February 2023 and will be marketed widely to potential enrollees. The Center for Public Lands will notify the Redd Center when the curriculum launches, such that patrons and other interested parties can enroll in the inaugural and subsequent online course.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Patrick Mason	Email Address:	patrick.mason@usu.edu
Address:	0710 Old Main Hill Logan, UT 84322-0710	Phone Number:	435-797-0572
Project Title:	This Is Her Place podcast		
Organization/ Institution:	Utah State University	Submission Date:	10/26/2022

Name of Award Received:

Public Programming Grant

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The Charles Redd Center for Western Studies generously provided a \$1500 public programming grant to “This Is Her Place” podcast in 2021. “This Is Her Place” is a storytelling podcast focusing on the experiences of the remarkable women who have shaped Utah’s history and culture. The grant was used to produce the podcast’s final two episodes. One episode featured the stories of Mother Augusta and the Rev. Elizabeth McVicker, two female religious leaders who shaped Utah’s diverse spiritual landscape. The other episode examined Utah’s history of female artisan crafters by telling the stories of Violet Bear Allen, an elder in the Skull Valley Band of Goshute who was known for her gift in beadwork; Ann Cannon Woodbury, an early settler in St. George who was a leader in silk production; and Angela Brown, a photographer, editor, and founder of Craft Lake City.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The entirety of the grant went to paying salaries for the podcast’s team, specifically the producer (Allison Pond), two co-hosts (Naomi Watkins and Mike Aguilar), and audio engineer/editor (Dez Stewart). Patrick Mason worked as the podcast’s unpaid executive producer. All funds were spent by the end of August 2021. Funds allowed us to conduct interviews with our subjects, their descendants, and/or experts, and then edit those interviews and put them together in a highly produced narrative podcast form. Some of these women have received very little public acknowledgment of their contributions to Utah history.

Publications and/or presentations based on your Redd Center research or program:

The two podcast episodes mentioned above.

Next steps for your research process:

n/a

Future plans for publication and/or presentations:

n/a

Comments:

The podcast ended in 2021 after the production of fourteen episodes over the course of two seasons. It represented a significant contribution to diversifying the stories told about the history of Utah, and more broadly the American West. The podcast garnered all 5-star reviews on Apple Podcasts (see <https://podcasts.apple.com/us/podcast/this-is-her-place/id1518480964>). Listener comments were universally enthusiastic; here is a sample of just three:

“These are not the typical pioneer stories you’ve heard before — the women are diverse and their stories are unexpected. Plus this podcast has great music and storytelling — high quality production. Worth listening to even if you’re not from Utah!”

“I love this podcast because it introduces me to so many fascinating Utahns. It’s an entertaining and informative listen that changes the way I see my community. I love that the hosts’ energy and excitement comes through and I appreciate hearing from many different people in one episode. Every episode pairs Utah women in history with Utah women of today working in the same area or on the same issues.”

“As a Utah native, I have absolutely loved hearing stories of the incredible women in my own backyard. There are so many amazing women in this state whose stories I haven’t heard until now. I have truly enjoyed listening to these accounts and look forward to each week’s episode. The hosts are so incredible and provide just the right amount of comic input.”



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Award Report



BYU Redd Center
Charles Redd Center for Western Studies

Name:	Cristi Wetterberg	Email Address:	wetterberg@utahhumanities.org
Address:	202 West 300 North Salt Lake City, Utah 84103	Phone Number:	801-359-9670
Project Title:	Development Director		
Organization/ Institution:	Utah Humanities	Submission Date:	10/12/2022

Name of Award Received:

The Charles Redd Center for Western Studies Author & Scholar for the 25th Annual Book Festival

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

With the funding from the Charles Redd Center, Utah Humanities was able to invite Jonathan T. Bailey as the Charles Redd Center for Western Studies scholar to host two events for this year's annual Book Festival.

On October 18th at 6pm, Jonathan will lead a short trek at the Stokes Nature Center at 6pm while discussing his book "When I was Red Clay". This event is one of many UH Humanities in the Wild events, an exploratory outdoor experience that empowers participants to step into the landscapes that inspired some of the American West's greatest literature.

On October 19th at 6pm, Jonathan will discuss his book "When I was Red Clay" at the Under the Umbrella Bookstore.

These events could not have been possible without the Redd Center's support along with other critical partnerships with Stokes Nature Center, Torrey House Press, and Under the Umbrella Bookstore.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Jonathan T. Bailey is a photographer and conservationist who specializes in rock art. His work has contributed to the preservation of areas like the Bears Ears National Monument, Grand Staircase-Escalante National Monument, the Uintah Basin, and the U.S.-Mexico borderlands. Since 2013, he has partnered with the Utah Rock Art Research Association to record and protect Emery County's fragile archaeological resources. He is most recently the author of *When I Was Red Clay* (Torrey House Press - August 2022), *The Greater San Rafael Swell* (University of Arizona Press - Spring 2022), and *Rock Art: A Vision of a Vanishing Cultural Landscape* (November 2019). His work has appeared in numerous places such as *Landscape Photography Magazine*, *NBC News*, *Arizona Highways*, and *High Country News*. Originally from Emery County, Utah, he now lives in Tucson, Arizona, with his partner, Aaron.

"When I was Red Clay" is an intimate record that lays bare one person's experience growing up in a rural Mormon community and struggling to reconcile his sexual orientation with the religious doctrine of his childhood. Finding solace and connection in wild places, Jonathan T. Bailey lived two lives—one of trauma, the other of wonder. In "When I Was Red Clay", he navigates self-discovery, grief, and the loss of faith with unflinching honesty and biting humor.

Publications and/or presentations based on your Redd Center research or program:

Jonathan T. Bailey was invited to host two events during this year's Book Festival. The dates and links to the upcoming events are below. We invite you to join us for these events.

- 10/18 - <https://www.facebook.com/events/1406239919840144>
- 10/19 - <https://www.facebook.com/events/425676486105501>

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

Every year, we appreciate our partnership with the Charles Redd Center and we hope to continue to collaborate on impactful programming that increases knowledge and understanding of the intermountain regions.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Audrey Goodman and Lisa Tatonetti	Email Address:	agoodman@gsu.edu
Address:	PO Box 6815 Logan , Utah 84341	Phone Number:	4042132847
Project Title:	Palimpsests and Western Literatures Conference		
Organization/ Institution:	Western Literature Association	Submission Date:	11/16/2022

Name of Award Received:

Public Programming Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The programming funds provided by the Redd Center supported the 55th annual conference of the Western Literature Association. Organized around the theme "Palimpsests and Western Literatures," the conference promoted the exchange of ideas through academic presentations, keynote lectures and featured presentations, and plenary discussions by an international roster of scholars and students. Our conference theme derived from the unique qualities of the conference's location in the intermountain west. Santa Fe, the oldest capital in the United States, whose name declares the arrival of Catholicism and colonialism in the New World, has been created through layers of inscription and cycles of conquest and embodies the layered histories of place in the western U.S. At the WLA Conference in Santa Fe, we had 298 registered attendees, which included 58 graduate students and 8 from the Institute of American Arts; collectively we explored the complexity of lands, cultures, languages, and identities in the intermountain West. We invited community members to attend the public readings of Luci Tapahonso and Denise Chavez and we also welcomed students from the Institute for American Indian Arts and international scholars to to conference events.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

As an organization, the Western Literature Association conference helped us learn and bolstered our understanding of several key points. First and foremost, after several years of Covid, one conference moved online, and the current conference moved forward a year, we learned again the deep importance of in-person gatherings. The incredibly generative conversations that occurred after panels, in the halls of the Santa Fe Community Convention Center, on walks to and from the venue, and over meals, were absolutely invaluable to intellectual growth and collaborative thinking and planning. As well, we were reminded of the necessity of meeting and mentoring graduate students from outside our own universities and of fomenting community connections, which we did in our contacts with the Institute of American Indian Arts, with the New Mexico History Museum, and with local bookstores and presses.

Further, the diversity of the panels and topics at the conference allowed most of us to be introduced to new wests, to the multiplicity and elasticity of the concepts and borders that make up our field in the current day. Lastly, our time in community opened up new opportunities for collaborative scholarships. To offer one example, the opening event on Cherokee author Lynn Riggs, may well turn into a symposium on Riggs and that possibility grew directly out of conference conversations. Ultimately, the Redd Center support allows us to learn, speak, and work across disciplinary and geographical boundaries in the field.

Publications and/or presentations based on your Redd Center research or program:

For the conference program, follow this link: <https://www.westernlit.org/wp-content/uploads/2022/10/Program-2022-for-distribution-side-by-side.pdf>

For a blog about participation by Kansas State students in the conference, see <https://englishkstate.org/2022/10/27/research-and-road-trips-k-state-english-the-western-literature-association-and-the-road-to-sante-fe/>

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

The Redd Center support was essential to allowing the conference to happen. It was a tremendous success, leading to enthusiastic plans for future conferences, and also one of the most diverse conferences our organization has held in terms of programming and participation. Especially after the delays caused by the pandemic, the gathering for this conference provided many rich opportunities for everyone to debate ideas, develop new projects, and share recently published work. Thank you!



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ISABELLA MARIE ERRIGO, PLANT AND WILDLIFE SCIENCES, BRIGHAM YOUNG UNIVERSITY, "MOVING BEYOND MORPHOLOGY: USING DNA METABARCODING TO BETTER UNDERSTAND BIODIVERSITY CHANGE"

TEAGAN MULFORD, BIOLOGY, BRIGHAM YOUNG UNIVERSITY, "TAXONOMY AND PHYLOGENETICS OF THE ROBBER FLY GENUS PROCTACANTHUS (INSECTA: DIPTERA: ASILIDAE): INHABITANTS OF SAND DUNES IN WESTERN NORTH AMERICA"

HANNA SEARIAC, COMPARATIVE STUDIES, BRIGHAM YOUNG UNIVERSITY, "MAGICAL MORMON WOMEN"

JOSEPH ANDAN SHEPPARD, SCHOOL OF FAMILY LIFE, BRIGHAM YOUNG UNIVERSITY, "PROJECT M.E.D.I.A.; SPECIFIC STUDY: 'WHERE DID YOU LEARN THAT?': MEDIA'S SOCIALIZATION OF CHILDREN AND FAMILIES"

JOHN PAUL SZABO, DESIGN AND PHOTOGRAPHY, BRIGHAM YOUNG UNIVERSITY, "111TH MERIDIAN WEST: A PHOTOGRAPHIC EXPLORATION"



BYU ReDD Center
Charles ReDD Center for Western Studies

Award Report

Name:	Isabella Errigo	Email Address:	ierrigo95@gmail.com
Address:	136 Honey Hill Dr Wauconda, IL 60084	Phone Number:	8478775170
Project Title:	Metabarcoding in Grand Teton National park		
Organization/ Institution:	Brigham Young University	Submission Date:	10/25/2022

Name of Award Received:

ReDD Center Research Award for BYU Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles ReDD Center:

Each year I go to the Tetons with a group of scientists to study the impact climate change has on aquatic ecosystems as a result of increased glacial melt. My roll in the group is to use metabarcoding to study the impact on aquatic communities. With the money, I was able to go to the Tetons this year to join the group and then process my samples: I extracted DNA from the samples, amplified and cleaned the DNA, then I sequenced it. Right now I am waiting to get the sequences back from the lab so I can analyze the data.

Specifics on how ReDD Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

We have yet to learn anything from the data because I haven't gotten the sequences back.

Publications and/or presentations based on your ReDD Center research or program:

I am still waiting for data back, so I am not yet presented/published anything on it.

Next steps for your research process:

I am waiting to get the sequences back, then I will analyze the data and it will be part of a few publications about the work we are doing in the Tetons.

Future plans for publication and/or presentations:

Yes, I will notify when my work is published/presented.

Comments:

I am so grateful to the ReDD Center for this money! I am excited to keep working with this group and to get my data back soon. With this data we will be able to understand how better to manage our land and water to reduce harm and increase ecosystem stability.



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Teagan Mulford	Email Address:	teaganmulford@gmail.com
Address:	891 W 200 N Provo, UT 84601	Phone Number:	(805)268-0040
Project Title:	Taxonomy and phylogenetics of the robber fly genus <i>Proctacanthus</i> (Insecta: Diptera: Asilidae): inhabitants of sand dunes in western North America		
Organization/ Institution:	Brigham Young University	Submission Date:	10/10/2022

Name of Award Received:

Research Award for BYU Upper Division and Graduate Students (BYU Students Only)

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

With the funds from the Redd center, I was able to go to Florida, Colorado, and Arizona to collect the flies needed to complete my genetic and morphological sampling. I used an extensive database of 10,000 specimens to identify where my blind spots were in the genera's previous sampling, and was able to fill in some of those blank spots. I was also able to finish extractions on many of these specimens with funding from the Redd center, allowing me to build a preliminary tree. I collected eight new species that I did not have fresh specimens for, as well as two potential new species (pending analyzation).

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Redd Center funds enabled me to actually go into the field and prepare my own expedition. This was first time planning a trip such as this completely on my own. I know this skill will be important in my future career and was very excited to be able to learn how to do it efficiently. I learned how to manage funds, keep receipts, navigate hotels and car rentals, as well as make reasonable assumptions about how much time I need to collect in a given location. Since I was able to go into the field I also learned about my taxon's habitat, and was able to learn to recognize the gestalt of their ideal environment (sandy, partially covered), as well as their flight patterns and behaviors to enable me to catch them efficiently.

Publications and/or presentations based on your Redd Center research or program:

Not yet! I will be presenting at ESA in November using my ecological data from this project.

Next steps for your research process:

My next steps are to complete extractions, test my identification keys, and finish my ecological modeling. I am also currently making a push to get type specimens sent to me so that I can evaluate them morphologically and compare them to my current descriptions.

Future plans for publication and/or presentations:

My future plans are to present at the Entomological Society of America in November 2022, as well as at the International Congress of Dipterology in Reno in 2024. I will also be submitting my genus revision in 2023 for publication. I will be submitting my ecological work for publication in the end of 2022.

Comments:

Thank you! This funding helping me exceptionally.



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Award Report



BYU Readd Center
Charles Readd Center for Western Studies

Name:	Hanna Seariac	Email Address:	hseariac@gmail.com
Address:	1778 N 3720 W Lehi, UT 84043	Phone Number:	7742498513
Project Title:	Magical Mormon Woman		
Organization/ Institution:		Submission Date:	10/09/2022

Name of Award Received:

BYU Upper-Division and Graduate School

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

After receiving the grant, I used the funds to travel for archival research and interview. I spent several days in several key towns that I identified and tracked down obscure records about the people who are relevant to my research. At this point, I was able to obtain all primary sources necessary and am working on expanding interviews to people across the globe. I have already written one article that pertains to my research which has publication interest already. Currently, I am in the interview phase still as I decided that I needed a greater volume of interviews. I have also completed writing the introduction, the historical background section and the first chapter (Salem Witch trials up to Joseph Smith's birth).

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Readd Center funding was instrumental in helping me to travel to archives that I would not have been able to go to and also helpful as I spent a lot of time in the summer driving to various small towns in Utah to conduct my research. I was also able to use the funds to ensure that my interviews were transcribed accurately and recorded well. I was able to obtain documents that are not yet published and meet the ancestors of several individuals of interest who were also able to give me scans of diaries as well as oral history that is invaluable and new.

Publications and/or presentations based on your Readd Center research or program:

A forthcoming article called "Sewing Covenants." I am preparing two presentations and one more article for submission in early November. I have also begun to publish popular media articles on my research: <https://www.deseret.com/2022/9/9/23332120/famous-latter-day-saint-women-relief-society-midwives>

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

N/A



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BYU Readd Center
Charles Readd Center for Western Studies

Award Report

Name:	Joey Sheppard	Email Address:	joey_sheppard@byu.edu
Address:	350 KMBL Provo, UT 84602	Phone Number:	385-283-1061
Project Title:	Project M.E.D.I.A.; Specific study: "Where did you learn that?": Media's socialization of children and families		
Organization/ Institution:	Brigham Young University	Submission Date:	10/14/2022

Name of Award Received:

Research Award for BYU Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

We were able to collect the data needed to examine how family processes (measured observationally and from survey responses) impact media use, the social development, personality, and the temperament and mental health of children from infancy to early childhood. We will finally be able to test our working hypothesis, that more effective family processes will facilitate healthier media habits and choices in children which will lead to better social development in children all the way into adulthood.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Today's youth are media-saturated. For 10 to 25-year-old people in the United States media use is a full-time job. Children born now will spend from birth to death immersed in the media. These "digital natives" will be the first generation to truly grow up surrounded by the media. This means that this generation of children experiences media in a different way than other generations; they grow up with the Internet, portable media devices, and information at the touch of a button. Despite previous research suggesting the relationship between media and mental health, little research has examined this relationship for individuals living in the Mid and Intermountain West areas, an area which has the highest suicide rate in the nation. Our research is one of the first projects to examine the long-term effects of being a "Digital Native" and living in this new media environment and the first to do so in the Mid and Intermountain West areas. While the data is still in the process of being examined, the Readd Center funds allowed us to collect the data needed to study children and families in the Intermountain West area over a number of years and how their media use influences their attitudes and behavior, including their mental health.

Publications and/or presentations based on your Readd Center research or program:

N/A

Next steps for your research process:

As of now, data collection has finished and data coding and cleaning have started. This is an immersive process due to the complex nature of collecting data through the multiple methods of quantitative surveys, qualitative interviews, and controlled psychological experiments. It is estimated that data coding and cleaning will be completed by December 1st of this year.

Future plans for publication and/or presentations:

This research will be the basis of (1) my thesis, (2) many other publications and presentations in the field of family studies and child development, and (3) a resource to better educate consumers of media and intervention programs in the Intermountain West area. It is estimated that dozens, if not hundreds, of research articles and conference presentations will come from this collected data.

Comments:

Since my freshman year, I've wanted to be a professor; mentor students, perform my own original research, do all things professors do. Because of the Redd Center's contributions, I was able to develop my own psychological experiment, oversee its execution, and lead a team of research assistants in coding it. I was able to do now what I thought wasn't possible for another five years. I was given the opportunity to not just learn but do.

Thank you.

Sincerely,

Joey Sheppard



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BYU Readd Center
Charles Readd Center for Western Studies

Award Report

Name:	John Paul Szabo	Email Address:	jpszabo4@gmail.com
Address:	24 Calle Akelia San Clemente, CA 92673	Phone Number:	9494299980
Project Title:	111th Meridian West: A Photographic Exploration		
Organization/ Institution:	BYU	Submission Date:	02/09/2023

Name of Award Received:

Research Award for BYU Upper Division and Graduate Studies

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

"I am a BFA Photography student at Brigham Young University. My passion for photography grew out of my love for the outdoors and adventure. For my capstone project, I wish to create photographic images that capture the beautiful transformation of land and culture. To achieve this, I traveled from Baja California to Mexico, through the United States, and continued as far north as possible through Alberta, Canada. Numerous destinations included: Arizona, Utah, Idaho, Wyoming, and Montana.

I primarily drove this distance using my Toyota 4Runner while also living out of my vehicle as I followed the 111th meridian west, a line of longitude that lies in the Western hemisphere extending from the North Pole to the South Pole. As I followed this line, I stopped and shot whatever sight, person, monument, or intriguing feature that spoke to me at that moment.

My goal is to capture unique photographs that tell the story of this magnificent meridian and to encourage my audience to connect emotionally to my work by imagining they are experiencing this exciting adventure for themselves. By traveling such a specific route, I hope to bring attention to areas perhaps overlooked by others."

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

"Completing this experience with the generous Readd Center funds allowed me to find the inspiration I needed to obtain the best image that tells a story. I learned independence and that even when it's uncomfortable, to interact with others around me to secure what I needed. I learned to accept my limitations and not be angry with myself when things did not work out as I had imagined. Most importantly, I learned that mistakes do not equal failure, but offer opportunities for growth and introspection. I learned to trust people and to be grateful when they helped me and accepted me unconditionally. I feel such gratitude for all of the people that helped me take on this adventure which brought me so much happiness.

Preparing for my exhibit adds another dimension altogether to the project with all the details necessary to ensure the most impactful experience for my audience. This involvement is unique to this capstone project and while at times frustrating, perfectly oriented to push me out of my comfort zone where learning takes place.

Especially important is the guidance and vote of confidence I received from both James Swensen and Paul Adams, they truly made this trip a reality for me because of their belief in me to accomplish a challenging capstone project and I offer many thanks to them both."

Publications and/or presentations based on your Readd Center research or program:

My gallery show at the BYU Library will exhibit 30 of my images and five poems. The show will be in the Gallery on Five, fifth floor. The show runs from July 1, 2022, to September 2, 2022.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

In the future, I hope to create a book to include many of the images from my trip along with my journal notes, and the poems created by fellow BYU student Cody Weidner.

Comments:

Dear Donors,

My journey along this magnificent meridian took about a month and was quite revelatory. I met fascinating people who helped me appreciate their lifestyle and witnessed many breathtaking landscapes. This allowed for inspiration and freedom to capture images to tell the story of this meridian. I felt I could take chances with my work, and be more spontaneous and less critical. Moreover, the opportunity to collaborate with a fellow BYU student offered both insight and compassion as we each strived to capture our vision to share with others.

I hope experiential learning opportunities, coupled with my rigorous academic pursuits, have equipped me with the skills required to pursue a career in photography. I am five years cancer free, and each day I thank God for the chance to experience all his gifts and for the opportunity to attend an incredible university.

With great humility, I gratefully accept your generous grant and realize that your final selection must have been extremely difficult as there are so many deserving candidates. Thank you for reviewing my application and believing me deserving of such a generous honor which proved to be an integral part of my successful journey. This grant is a blessing for all who need additional resources to make dreams come true. Without your support and belief that this endeavor was worthy, I would not have been able to fulfill my dream.

With gratitude,

John "Jack" P. Szabo



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Leah White	Email Address:	leahmwhite42@gmail.com
Address:	138 Trilobite Trail Jemez Springs, NM 87025	Phone Number:	(910)391-5155
Project Title:	Influence of wildfire and forest management on large mammal distribution, habitat use, and co-occurrence in the Jemez Mountains of New Mexico		
Organization/ Institution:	New Mexico State University	Submission Date:	32/28/2022

Name of Award Received:

BYU Upper Division/Graduate Students Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

During 2021 and 2022 field seasons, we deployed and maintained 144 trail cameras across our 160-km² study area in the Jemez Mountains, north-central New Mexico. These cameras have so far collected approximately 4.3 million images of at least 27 wildlife species, including elk, mule deer, mountain lions, black bears, coyotes, bobcats, gray foxes, badgers, skunks, ringtails, turkeys, ravens, and other birds of prey. We also completed vegetation transects at each camera, measuring stand density, canopy closure, ground cover, visual obstruction, forest regeneration, and density of mast-producing plant species. We are using the spatially explicit occurrence data from these cameras to develop single- and multi-species occupancy models to make inference about how wildlife species and communities respond to wildfires and forest restoration treatments, including prescribed burns and forest thinning. The research is still in progress, but we recently finished processing all 2.3 million images from the 2021 season and are completing preliminary analyses.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The funds from the Redd Center were used to purchase batteries and hard drives for storing the nearly 9 terabytes of images collected by our cameras. While the final answers for the research questions are still forthcoming, the research goals would not have been possible without these funds. We have employed six undergraduate technicians to assist with processing and identifying the images collected, and each of these needed their own hard drive for storing and transporting these images. Data is currency, so having access to high-quality, secure external storage devices has been critical for this project.

Publications and/or presentations based on your Redd Center research or program:

Presentations:

Jones Applied Quantitative Ecology Lab: Invited Talk, June 2022

NMSU Biosymposium, March 2021

The Wildlife Society/American Fisheries Society NM/AZ Joint Annual Meeting, February 2021

USGS New Mexico Cooperator Meeting, October 2020

Next steps for your research process:

Fieldwork is ongoing and will conclude at the end of October. I am currently finishing preliminary analyses to present at TWS in Spokane this November. After that, I will refocus on finishing the processing of 2022 field season images, completing analysis, and writing, defending, and publishing the thesis.

Future plans for publication and/or presentations:

I will present my preliminary results in the "Student Research in Progress" category at the national meeting of The Wildlife Society this November. I intend to publish one or two articles from my thesis, expected to submit by early next summer. I will notify the Redd Center as soon as I do!

Comments:

Many thanks to the Redd Center for awarding me with this funding. More concrete evidence of progress will be available in the next six months.



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SOPHIE S. ALVES, MEXICAN AMERICAN STUDIES, UNIVERSITY OF ARIZONA, "A WALL OF SILENCE: DENATURALIZING ANTI-IMMIGRANT DISCOURSES ABOUT MEXICAN IMMIGRANT WOMEN AND THEIR BABIES"

SHELBY BYERLY, BIOLOGY, NORTHERN ARIZONA UNIVERSITY, "JUNIPER DIEBACK IN NORTHERN ARIZONA"

HAILEY DOUCETTE, HISTORY, COLORADO STATE UNIVERSITY, "CREATED BY COPPER: SUPERIOR, ARIZONA'S CONNECTION TO THE MINING INDUSTRY"

PAIGE FIGANBAUM, HISTORY, UNIVERSITY OF NEVADA, LAS VEGAS, "COMPETING DESERT LANDSCAPES: THE RELATIONSHIPS BETWEEN ENVIRONMENTAL PERCEPTION, THE NEVADA TOURISM INDUSTRY, AND LAND MANAGEMENT"

MATT GREEN, HISTORY, UNIVERSITY OF UTAH, "THE CULTURE & COMMERCE OF RISK IN BACKCOUNTRY SKIING"

EDWARD HILL, FOREST AND RANGELAND STEWARDSHIP, COLORADO STATE UNIVERSITY, "LIVE AND DEAD CANOPY EFFECTS ON JUVENILE PINYON PINE VIGOR ACROSS TREE SIZES"

WILLIAM C HOLLY, HISTORY, ARIZONA STATE UNIVERSITY, "'FOR THE BENEFIT OF THE MOUNTAIN': LEGAL AND CULTURAL CONFLICTS OVER DEVELOPMENT ON ARIZONA'S SAN FRANCISCO PEAKS, 1968-1978"

JAIME JACOBSEN, ANTHROPOLOGY, MONTANA STATE UNIVERSITY, "TOWARDS TRANSNATIONALISM: EXPLORING VENEZUELAN IMMIGRATION IN THE INTERMOUNTAIN WEST THROUGH CO-CREATED DOCUMENTARY"

KYLE KITTELBERGER, BIOLOGICAL SCIENCES, UNIVERSITY OF UTAH, "POPULATION DYNAMICS, COMMUNITY ECOLOGY, AND PHENOLOGY OF MIGRATORY BIRDS IN SOUTHEASTERN UTAH"

MARK KREIDER, FOREST MANAGEMENT, UNIVERSITY OF MONTANA, "EFFECTS OF IMMEDIATE POST-FIRE CLIMATE ON LONGER-TERM FOREST DEVELOPMENT TRAJECTORIES"

MARY LUDWIG, HISTORY, UNIVERSITY OF NEVADA, LAS VEGAS, "INCARCERATED NATIONS: REMOVAL AND CONFINEMENT ON INDIGENOUS LANDS: INDIAN POLICY, INTERNMENT, AND INCARCERATION ON THE COLORADO RIVER INDIAN RESERVATION, 1865-1952"

KIMBERLY SHEETS, HISTORY, WASHINGTON STATE UNIVERSITY, "THE SOCIAL LIVES OF ANIMALS: ELUCIDATING SOCIAL IDENTITY FROM ZOOARCHAEOLOGICAL DEPOSITS IN THE HOMOL'ОВI SETTLEMENT CLUSTER, NORTHEASTERN ARIZONA"

BONNIE SWENSON, ENGLISH, UTAH STATE UNIVERSITY, "NO ONE DIED?: UNCOVERING THE VOICES OF THE WOMEN OF THE HOLE-IN-THE-ROCK EXPEDITION"

JACOB SWISHER, HISTORY, COLORADO STATE UNIVERSITY, "A CLIMATE OF CRISIS AND OPPORTUNITY: VIOLENCE, NATIVE SOVEREIGNTY, AND THE MID-NINETEENTH-CENTURY DRY PERIOD IN THE NEW MEXICO BORDERLANDS" (DELAYED FROM 2020 BY COVID)

JEFF TURNER, HISTORY, UNIVERSITY OF UTAH, "POLYGAMY AND THE AFTERLIVES OF THE 1891 IMMIGRATION ACT" (DELAYED FROM 2021 BY COVID)

LEAH WHITE; FISH, WILDLIFE, AND CONSERVATION ECOLOGY; NEW MEXICO STATE UNIVERSITY; "INFLUENCE OF WILDFIRE AND FOREST MANAGEMENT ON LARGE MAMMAL DISTRIBUTION, HABITAT USE, AND CO-OCCURRENCE IN THE JEMEZ MOUNTAINS OF NEW MEXICO" (DELAYED FROM 2021 BY COVID)

BRIAN WRIGHT, HISTORY, PRINCETON UNIVERSITY, "CONQUEST ON PAPER: ARCHIVES AND THE AMERICAN WEST"



BYU ReDD Center
Charles ReDD Center for Western Studies

Award Report

Name:	Shelby Byerly	Email Address:	sb2863@nau.edu
Address:	S San Francisco St Flagstaff, AZ 86011	Phone Number:	5039834380
Project Title:	Juniper Dieback in Northern Arizona		
Organization/ Institution:	Northern Arizona University	Submission Date:	10/14/2022

Name of Award Received:

Research Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles ReDD Center:

I am currently in the middle of collecting field data on resprouting in the juniper dieback area; this fieldwork is made possible due to the funds I received from the ReDD Center. My original plan was to resurvey my plots from last summer, but this was complicated due to fire closures in my study area during the summer. After talking with my advisors, we decided that resurveying the plots wouldn't add to my analysis of the drivers of juniper dieback. Other researchers showed a lot of interest in the resprouting angle, so I decided to focus on that phenomenon this season. I am still in the process of data collection but will finish up in the next couple of months and start analyzing my data.

Specifics on how ReDD Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The ReDD Center funds have made it possible for me to conduct fieldwork this year. As I am still collecting data I do not have results, but I am already seeing patterns in which trees are resprouting based on location, stand characteristics, size, and dieback level. I plan to model the effects of elevation, soil characteristics, tree size, microsite, and dieback level on the resprouting capability of oneseed juniper.

Publications and/or presentations based on your ReDD Center research or program:

None currently. I anticipate that one of the chapters of my dissertation will be focused on resprouting and the data I was able to collect using funding from the ReDD Center.

Next steps for your research process:

The first step is to complete data collection. I started in September because last summer I noted resprouting at the end of August, a few weeks after the monsoon season. This year the monsoon season was longer and ran relatively late, so I waited on starting data collection longer than I originally planned to ensure I am capturing resprouting from this year. The next step will be putting together a model to analyze the effects of elevation, soil characteristics, tree size, microsite, and dieback level on resprouting.

Future plans for publication and/or presentations:

I am currently planning one publication on post-dieback resprouting in oneseed juniper. This will also be a chapter in my dissertation.

Comments:

I don't have any additional comments. As requested in the last prompt, I will notify the Redd Center once I publish.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Hailey Doucette	Email Address:	hailey.doucette@colostate.edu
Address:	8208 Mummy Range Drive Fort Collins, CO 80528	Phone Number:	720-317-5505
Project Title:	Created by Copper: Superior, Arizona's Connection to the Mining Industry		
Organization/ Institution:	Colorado State University	Submission Date:	10/15/2022

Name of Award Received:

Summer Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I visited the Arizona Historical Society and Arizona State University archives to look at the union paper and records regarding the town of Superior, Arizona. The majority of my research included looking the records of Mine Mill local #938, the Magma Copper Company's chapter at ASU and the microfilm of the Superior Sun newspaper. My research also included county records, the archives of the politicians in Arizona in the 1950s and 1960s such as Barry Goldwater and Carl T. Hayden

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

This project increased my understanding of the copper mining industry in Superior, Arizona. Superior is home to the Magma Copper Company, one of the most dangerous underground mines in the state. The Magma mine was also the last mineral mine west of the Mississippi to unionize. The lack of a union contributed to weak safety regulations that caused tragic deaths, serious injuries, and chronic diseases such as silicosis. Prior to the 1950s, Magma Copper Company provided employees with fair pay and generational employment, so the miners mostly dealt with the hazardous work environment. Red-baiting and fear of the financial impacts of a strike, also, prevented early unionization efforts. Studying the history of this mine in Arizona increased my understanding of the interplay between the labor, environmental, and legal history of the state.

Publications and/or presentations based on your Redd Center research or program:

"Silicosis, Striking, and Safety: The Unionization of the Last Copper Mine in the West," Graduate Student Showcase, Fort Collins, CO, Upcoming November 22, 2022

"Copper, Community, and Contamination: How Copper Mining Shaped Superior, Arizona, 1950s-1960s," Western History Association Conference 2022, San Antonio, TX, October 12, 2022

Next steps for your research process:

My research process is complete for this project. I am now writing my master's thesis based on this research and am on track to complete my thesis in May 2023.

Future plans for publication and/or presentations:

In the future, I plan to present this paper at the American Society for Environmental Historians at their annual conference in 2023 in Denver, Colorado. For this presentation I am going to look at the closure of the mine in 1982 and environmental policy eventually leading to the demise of the Magma Copper Company. Once my master's thesis is complete, I intend to submit an article-length manuscript to the Journal of Arizona History. This is a peer-reviewed, quarterly journal that publishes articles examining the history of Arizona.

Comments:

Thank you for supporting my research! The Summer Award for Upper Division and Graduate Students was vital to completing my research and allowed me to tremendously increase my understanding the labor, environmental, and legal history of Superior, Arizona in the twentieth century.



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Award Report

Name:	Paige Figanbaum	Email Address:	figanbau@unlv.nevada.edu
Address:	1480 Paseo Verde Pwky Henderson, NV 89012	Phone Number:	319-215-7583
Project Title:	Desert Attractions: Environment, Tourism, and Land Management in Nevada		
Organization/ Institution:	University of Nevada, Las Vegas	Submission Date:	10/11/2022

Name of Award Received:

Research Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

In April 2022, I received the Research Award for Upper Division and Graduate Students from BYU's Charles Redd Center for Western Studies. The support from the Charles Redd Center allowed me to work on my dissertation, *Desert Attractions: Environment, Tourism, and Land Management in Nevada*. *Desert Attractions* explores five Nevada interpretive sites in order to better understand how these places are part of Indigenous history, rural history, and the history of federal land management. *Desert Attractions* explores the complex discourses surrounding land-use, identity formation, and relationships in Nevada. This summer, I worked on completing my first chapter, "Bonanza of Sites: Virginia City's Historic Preservation into a Desert Attraction." Virginia City presents Nevada as a mining state dependent on extractive industries. The interpretation of Virginia City's Historic "C" street builds on its extensive presence in popular culture, through the television series *Bonanza*. Despite some efforts to address the issue of labor, race, and gender on the Comstock, the prevailing interpretation at this influential site still overlooks Native Peoples' relationships with the land and their presence since time immemorial. The community members also overlook how the Comstock mining technologies left environmental degradation in the water and land. As a highly successful tourist destination, Virginia City reinforces romanticized narratives of the Wild West. The funding I received from the Charles Redd Center gave me the support to research in Reno, Carson City, and Virginia City. During my research trip, I took several tours of Virginia City, learning more about the town and how community members present its history. I also visited several archives, including UNR's special collections and Nevada's Historical Society which houses several photographs of Virginia City from the 1900s-2010s. These locations have fundamental primary materials that assisted in answering my research questions about Virginia City and its historic preservation efforts.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Charles Redd Center's support allowed me to travel to Reno, Carson City, and Virginia City, which houses resources and materials related to Virginia City's historic preservation efforts and tourism industry. A central question of the chapter is, what makes Virginia City a desert attraction? This chapter explores Virginia City's transformation from historic preservation efforts to a tourist town. In the transformation, how did the community's idea of a desert attraction change, and whose history was overlooked? Virginia City was founded with the 1859 discovery of the Comstock Lode, but by the 1960s, the "Bonanzaification" of the community overlooked its mining history. Between the 1950s-1990s, Virginia City shifted its town's identity and understanding of what it meant to be a desert attraction. I learned in the 1960s, Virginia City transformed from a struggling community into a central desert attraction of Northern Nevada. The fame of the *Bonanza* television series brought an unexpected interest to the town. The rising tourism industry brought new revenue to community members and irrevocable changes in unanticipated ways. Tourists visited Virginia City to experience the authentic *Bonanza* that portrayed the western cowboy myth. Visitors' expectations caused Virginia City community members to transform the town and its Historic "C" Street to fit the romanticized Wild West. The "Bonanzaification" of the town caused conflict between residents' historic preservation efforts.

As the community became a scripted Wild West theme town, its history was overshadowed. Within these major changes in Virginia City, historic preservation was always prevalent. The community's historic preservation and tourism industry are interconnected. One could not exist without the other. However, the dominating tourist industry morphed historic preservation to incorporate the Wild West theme, altering peoples' understanding of Virginia City's significance and history.

Publications and/or presentations based on your Redd Center research or program:

During my research trip to Reno, Preserve Nevada had its 2022 Northern Nevada Meeting. Preserve Nevada is a statewide nonprofit organization dedicated to the preservation of Nevada's cultural, historical, and archeological heritage. With my first chapter discussing the importance of historic preservation, I presented some of my research and experiences at the Northern Nevada meeting Saturday, September 17th.

Next steps for your research process:

With the support of the Charles Redd Center, I completed the first chapter of my dissertation. The next step in my research process is to move forward on my second chapter. My second chapter, "Commodified Caretaking," focuses on the Las Vegas Springs Preserve. While there are excellent histories of Springs Preserve and the sophisticated interpretive programs already in place, there is considerable room to expand and better link this site to the others under consideration in this dissertation. This chapter explores the cultural landscapes developed within the urban community of Las Vegas. Springs Preserve is a 180-acre cultural institution designed to teach Las Vegas history and provide a vision for a sustainable future. The Springs Preserve was listed on the National Register of Historic Places in 1978 for the mission to create, a "visitor experience that builds culture and community, inspires environmental stewardship, and celebrates the vibrant history of the Las Vegas Valley." In 1997, the Las Vegas Valley Water District Board of Directors approved the development of the institution to protect and manage the cultural, environmental, and water resources. Springs Preserve later opened as a public interpretation site in June 2007. Water was monumental in shaping the American West, specifically regarding the political dynamics surrounding water's use and conservation. It is well known who controlled the water, controlled the West. In exploring the Springs Preserve this chapter interrogates the influential role water has in shaping the cultural landscapes within Nevada.

Future plans for publication and/or presentations:

From the support of the Charles Redd Center, my future plans for publications and presentations with the research gathered are extensive. During my research trip to Virginia City, I was afforded the opportunity to conduct an oral history with Michael "Bert" Bedeau, the historic preservationist officer. This oral history will be published in UNLV's oral history institute. Bert Bedeau has been the historic preservationist officer at Virginia City since 1999 and has extensive knowledge of the town's history and historic preservation efforts. Publishing oral histories allow future researchers to learn about Bert Bedeau's expertise and knowledges about Virginia City's tourism industry. From the research acquired, I plan to write an article exploring how Lake Tahoe's tourism industry influences Virginia City. Specifically, discussing the fundamental role, Washoe Peoples have in Lake Tahoe's tourism industry and their influence on Virginia City. I hope to present my research at the Newberry Consortium in the American Indian and Indigenous Studies 2023 Conference.

Comments:

Thank you again to the Charles Redd Center for the support, and I truly appreciate the opportunity to continue my education. Through this support, I met interesting people across Nevada who further sparked my interest in the state's history and tourism industry.



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Award Report



BYU Redd Center
Charles Redd Center for Western Studies

Name:	Matt Green	Email Address:	mjg.ten@gmail.com
Address:	428 East 5th Avenue, Apt 9 Salt Lake City, UT 84103	Phone Number:	(815) 262-6463
Project Title:	Barbarian by Design: The Culture and Commerce of Risk in Backcountry Skiing		
Organization/ Institution:	History Department, University of Utah	Submission Date:	10/15/2022

Name of Award Received:

Research Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Since receiving this award, I successfully defended my dissertation prospectus. After passing this significant milestone, I committed a substantial portion of the summer to establishing a functional plan of action and milestones to complete the dissertation. I also read multiple primary source pieces of literature. My readings have included Lowell Skoog's new backcountry skiing history of the Pacific Northwest, *Written in the Snows* (2021) as well as ongoing research in the Marriott Library Ski Archives. In particular, I focused on reviewing oral histories, particularly my own interviews. Since 2018, I have conducted forty-three interviews with many of Utah's backcountry skiers, conservationists, and prominent outdoor recreation industry leaders. These serve as a critical foundational source, which I have yet to fully mine and process. Additionally, I have now sifted through and begun to annotate nearly every issue of both *Backcountry* and *Couloir* magazine, which is the premier magazine for the sport and industry. I owe a debt of gratitude to *Backcountry* magazine's publishers, Height of Land Publications, who generously delivered to me, free of charge, boxes of every issue of their magazine, with the exception of a few lost issues, since it was established in 1994.

Finally, from Wednesday, September 7 – Friday, September 9, I conducted research at the Utah State University Outdoor Recreation Archive. For my visit, I coordinated closely with their knowledgeable archivist, Clint Pumphrey, who helped me identify and acquire the materials I needed. During my three days of research, I focused mainly on backcountry-related periodicals and sifted through the following collections of magazines: *Backcountry* (limited selection); *Couloir* (1992-2005); *Cross Country* (late 80s, early 90s); *Alpine/Nordic 2: The Journal of Unconventional Skiing* (1985); *Powder* (1992-2012); and *Mountain* (1969-1992).

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I am closer to the beginning than the end of my dissertation research, and any report on my accomplishments is, I humbly submit, necessarily speculative. However, my research this summer and fall has produced several deliverables. First, I clarified my sense of the key historical themes I wish to address and develop in my dissertation and also established a stronger theoretical groundwork in US cultural or political history, US environmental history (especially in the areas of public lands and recreation), and in US business history, globalization and empire.

Second, after sifting through hundreds of pages of periodicals, including nearly every issue of *Backcountry* and *Couloir* (the two premiere backcountry skiing periodicals), I have begun to discern major shifts in the culture and commerce of backcountry skiing, including changes in publishers, cover slogans, and in the kind of companies and equipment being advertised or in messaging targeting women. I also gained a general sense of when these periodicals began to transform from an older paradigm to resemble a present-day publication in a new age

of the internet and social media. For example, I made the following observation from Backcountry October 2007, Issue #57 (Season 14): “the first cover from either magazine highlighting climate change/global warming, titled ‘The White Issue: The Future of Snow in a Warm World.’” Please note that, in the spring, I intend to return to USU, as their collections are key to my research. I am especially interested in their outdoor recreation industry catalogues, such as their Black Diamond Inc. collection, as the latter company has been an important Salt Lake City-based innovator and manufacturer of backcountry skiing equipment.

To conclude, what I have done is to organize and begin to collect and analyze a large body of material that will be essential to my dissertation research.

Publications and/or presentations based on your Redd Center research or program:

Presented “Barbarian by Design: The Culture and Commerce of Risk in Backcountry Skiing” in the PhD Poster Session at the annual meeting for the Economic History Association, La Crosse, WI, September 2022, <https://eh.net/eha/2022-poster-session/>.

Next steps for your research process:

Over the next nine months, I have plans to visit archives in university and private archives throughout the West, collecting materials such as the papers of ski mountaineers like Bill Briggs, the records of local ski touring clubs such as Montana’s Rocky Mountaineers, and details on backcountry skiers’ opposition to the development of ski resorts in collections such as the Mineral King Development papers. Moreover, I plan to carry out additional oral history interviews.

UTAH (5 weeks, ongoing/December-January)

University of Utah, Marriott Library Ski Archives

Utah State University, Outdoor Recreation Archive, Logan

Brigham Young University Archives, Provo, UT

Corporate records: Black Diamond Equipment, Voilé Equipment, others: TBD

WYOMING & COLORADO (3 weeks, October-November 2022)

University of Wyoming (1 week)

*Denver/Front Range (1.5 weeks)

University of Colorado: Norlin Library Archives; Business Research Library

Henry S. Hall Jr. American Alpine Club Library, Golden, Colorado *funded by a research grant

Denver Public Library: Western History/Genealogy Department

Colorado Historical Society, Stephen H. Hart Library, Denver, CO

CALIFORNIA (2.5 weeks; November/January 2023)

*Southern California (1 week)

University of Southern California Archives

California Ski Library, Norco, CA

*Lake Tahoe (2 days)

Tahoe Backcountry Alliance

Auburn Ski Club

*San Francisco area (1 week)

University of California, Berkeley, Bancroft Library Archives

Stanford University Archives (1 week)

OREGON & WASHINGTON (3 weeks, February 2023)

Mazamas Library and Historical Collections

Oregon Historical Society Research Library

Lewis & Clark College Archives

Mount Rainier National Park - Main Library

University of Washington Library Archives

Western Washington University, Center for Pacific Northwest Studies, Bellingham

IDAHO & MONTANA (2 weeks, March 2023)

Boise State University Archives, Boise, ID

University of Montana Archives, Missoula, MT

Montana State University Archives, Bozeman, MT

Yellowstone Research Library, Gardiner, MT

ORAL HISTORY PROJECT

Lowell Skoog, Cody Townsend, others: TBD

Future plans for publication and/or presentations:

I have a paper accepted for presentation, “Barbarian by Design: The Enviro-Technical Ethos of Risk in Backcountry Skiing” on a panel I organized, “Playing with Technology: How Outdoor Recreation Has Linked Nature, Culture, and Commerce” at the annual meeting for the Society for the History of Technology, New Orleans, LA, November 2022.

Within the next two years, I have set a goal to publish one of my papers on in mountaineering and skiing history with a select historical journal such as Pacific Historical Review or Enterprise & Society. If possible, I would also like to collaborate with fellow scholars of outdoor recreation history to publish our works together in an edited volume. My target date to finish the dissertation is March of 2024, after which my goal is to publish the dissertation as a book.

Comments:

I am humbled and grateful to the staff and leadership at the Redd Center for recognizing the quality of my work with this award. The much-needed funding has and will continue to allow me time and opportunity to carry out my dissertation research and writing.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Edward Hill	Email Address:	edwardmhill@gmail.com
Address:	1472 Campus Delivery Fort Collins, CO 80523-1472	Phone Number:	(605)430-0491
Project Title:	Advance juvenile tree vigor following canopy tree mortality		
Organization/ Institution:	Colorado State University, Department of Forest and Rangeland Stewardship	Submission Date:	50/28/2022

Name of Award Received:

Research Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Piñon-juniper woodlands are a dominant cover type in the southwest U.S. and provide myriad ecological, sociocultural, and economic benefits in the region. Following drought-induced mortality of canopy trees in recent decades, juvenile trees that established prior to canopy mortality have been the primary potential source of woodland recovery. However, little is known about how these juveniles respond physiologically after canopy trees die: do they benefit or suffer? As part of my research supported with funds from the Redd Center, I sampled the vigor of juvenile piñon trees in both live and dead canopy environments to evaluate whether they (a) showed differences in vigor between environments, and (b) if those differences indicated benefits (higher vigor) or drawbacks (lower vigor) of dead canopy environments.

I leveraged live and dead canopy tree plots from an established project located in southwest Colorado, near the town of Cortez. I used a subset of juvenile piñon pine trees including a wide range of sizes in both live and dead canopy environments to sample their vigor. Juvenile size may affect vigor responses; for example, larger juvenile trees may have greater access to water and nutrients. To evaluate vigor, I sampled juvenile photosynthetic rates, a fundamental component of survival and growth. I also sampled leaf water potentials of each individual juvenile, which can reflect their water stress, and potentially affect their vigor responses. Lastly, I sampled chlorophyll fluorescence of each individual juvenile, which reflects relative integrity of photosystem physiology and can be used to help understand vigor responses of individuals. I sampled at two different periods in the growing season, June and August 2022, to capture seasonal differences in water availability for these trees (when monsoonal precipitation is strong, the August is typically wetter in these woodlands compared to June).

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

As proposed in the application for funding, Redd Center funds were applied toward travel expenses (rental vehicles and gas). With this support, I completed the sampling described above, from which the data were analyzed to determine if juvenile piñon pine trees, of varying sizes, (a) showed different vigor responses in dead and live canopy environments, and (b) what variables explained variation in vigor responses in both dead and live canopy environments.

I learned that photosynthetic rates, my chosen primary measure of vigor, of juvenile piñon pine trees were higher on average in dead canopy environments as compared to live canopy environments. Moreover, this relationship was positively related to juvenile tree size in dead canopy environments – larger juvenile trees had higher photosynthetic rates than smaller trees under dead canopy, but not under live canopy. These results suggest that juvenile piñon pine trees generally benefitted from dead canopy at this site, and that larger juveniles benefitted the most. Such a relationship would be consistent with the expectation that the mortality of canopy trees resulted in newly

available resources for the remaining live juvenile trees, and that larger trees were able to take advantage of these new resources more than smaller trees. This could suggest a pathway for woodland recovery after canopy mortality in this region.

Apart from these primary results, we saw no significant influences of water potential or chlorophyll fluorescence on the observed variation in photosynthetic rates. However, there was some evidence for seasonal and diurnal influences: across all juveniles, photosynthetic rates were higher on average earlier in the day and in August. Juveniles generally experience less stress earlier each day when temperatures are lower, and we saw more moisture availability in August than in June, likely reflecting the effects of monsoonal precipitation.

Publications and/or presentations based on your Redd Center research or program:

Hill, EM, Redmond, MD, Ocheltree, TW, Bradford, JB, 2022. Short-term vigor of advance piñon juveniles is positively related to dead overstorey and tree size. 16th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region. Flagstaff, AZ.

Next steps for your research process:

The field component of my research supported by the Redd Center is complete. At present, the analysis conducted on these data is preliminary, and additional analyses will be done to validate preliminary results or generate corrections and additions as warranted. I also intend to expand my analyses to include water-use efficiency (carbon gain per unit water used) as an additional response of juveniles to dead and live canopy environments. Furthermore, the chlorophyll fluorescence samples described above may also be used as a response variable to understand responses of juvenile trees because it can illustrate how newly grown needles may acclimate to changes in resource environments, such as following canopy tree mortality.

For these additional analyses, two sets of predictor variables will be added to models explaining variation in juvenile tree vigor. The first set of added predictors will be microclimate data, including air temperature and humidity and soil moisture, which may greatly enhance the understanding of the effects of microenvironments (within each plot) of individual juveniles on their vigor responses. The second set of additional predictor variables will be soil nutrient data which is available from the previously established project mentioned above; changes in levels of available nitrogen for plant uptake in soils has previously shown to affect tree vigor following drought-induced mortality of other trees.

Finally, measurements of growth will be taken on juvenile piñon pine within the footprint of the previously established project mentioned above. These growth measurements will add a more integrative resource acquisition/use aspect to the responses of juveniles to live and dead canopy environments. Additionally, using the full footprint of the previously established project will expand this analysis of juveniles from one research site to a landscape perspective including at least 6 research sites from northern Arizona to northern Colorado.

Future plans for publication and/or presentations:

This research will be used in one manuscript submitted for publication in a peer-review journal such as *Ecography*. I intend to submit this manuscript in approximately 1 year, by July/August of 2023; notification will be sent to the Redd Center (and appropriate acknowledgements will be made). Additionally, this research will be used as a major component of one PhD dissertation chapter which will evaluate the variation in photosynthetic rates of different ages/sizes of juveniles in dead vs. live canopy microclimates. This research will also be presented at a national or international scientific conference such as the Ecological Society of America annual meeting. As proposed, preliminary results referenced in this report were presented at the 16th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region in September 2022 in Flagstaff AZ, a regional meeting that fosters science-management collaborations (for which the Redd Center was a sponsor!). Therefore, the research will be used to reach broad scientific and management audiences, both internationally (important for other dryland woodland systems) and locally (important for immediate management concerns).

Comments:

Thank you, again, for this opportunity. Available support funds like these from the Redd Center are truly invaluable resources for people like me who do not have full funding, to be able to complete sampling that will become a major component of my dissertation. I have a PDF of my poster presented at the 16th Biennial Conference (for the Colorado Plateau) available to share, if desired. The file size is larger than 4MB so cannot be uploaded here.



BYU ReDD Center
Charles ReDD Center for Western Studies

Award Report

Name:	William C Holly	Email Address:	wholly@asu.edu
Address:	7062 E Talon Ave Mesa, AZ 85212	Phone Number:	480-466-4515
Project Title:	“‘For the Benefit of the Mountain’: Legal and Cultural Conflicts over Development on Arizona’s San Francisco Peaks, 1968–1978”		
Organization/ Institution:	Arizona State University	Submission Date:	30/22/2022

Name of Award Received:

Research Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles ReDD Center:

The award helped me to wrap up my research of court cases that decided land use and cultural conflicts over the San Francisco Peaks in Arizona. I was able to sue the money to stay in Flagstaff a few days and access the archives of the Superior Court clerk there to read court transcripts. The award also helped me to pay for copies of these transcript. Finally, the award allowed me an additional day researching in the archives at Cline Library on the campus of Northern Arizona University to find follow up information from an earlier archive visit

Specifics on how ReDD Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I had been operating under the assumption that one of the court cases that is key to my work (*Wilson v. Summit/Goldtooth, et al. v. Summit - consolidated*) was decided against Indigenous plaintiffs because the court ruled they did not understand how the court system, due process, or land ownership worked. I had this assumption because the only source I had that detailed the court’s decision was a local newspaper, and this is exactly what was written in the paper in 1973 Arizona. What I learned, however, was the decision revolved around standing, and whether the Indigenous peoples had a right to sue based on land ownership. It was not about understanding the process at all. In fact, the court did not even rule on the standing issue, leaving it to a higher court to decide. The local media was very wrong, and also, racially biased and based their reporting on that. This changed the way I viewed the entire case and the results from it.

Publications and/or presentations based on your ReDD Center research or program:

“‘For the Benefit of the Mountain’: Legal and Cultural Conflicts over Development on Arizona’s San Francisco Peaks, 1970-1978,” Western History Association, 62nd Annual Conference, San Antonio, TX, October 15, 2022

Submission for the Arizona History Conference in April 2023 that I am waiting to hear about approval on

Currently working on an article to submit for possible publication regarding Indigenous claims in local courts vs. federal courts

Dissertation that will be defended in Spring 2023

Next steps for your research process:

The research is complete, it is now just compiling and writing the dissertation

Future plans for publication and/or presentations:

I would eventually like to run this into a manuscript for publication. Because the era and court cases I am examining also have to do with Indigenous religion and sacred lands, I am preparing a proposal for the BYU Redd Center "Religion in the American West" workshop seminar to be held in June 2023.

Comments:

Thank you for the award. It helped me wrap up the final research I needed to undertake to complete my dissertation.



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BYU Redd Center
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Award Report

Name:	Jaime Jacobsen	Email Address:	jaime.jacobsen1@montana.edu
Address:	404 Irish Dr. Fort Collins, CO 80521	Phone Number:	(406) 599-3642
Project Title:	“Towards Transnationalism: Exploring Venezuelan Immigration in the Rocky Mountain West through Co-created Documentary”		
Organization/ Institution:	Montana State University	Submission Date:	10/15/2022

Name of Award Received:

Research Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I traveled to Montana in the end of May 2022 to collaborate on the editing of my interactive documentary, “La Venezuela de mi corazón” (“The Venezuela of My Heart”) and to document my process of working with several displaced Venezuelan families to co-create stories about their immigration experiences. This funding from the Charles Redd Center allowed me to making substantial progress on the documentary working in-person with my collaborators, as well as gather primary source material for writing about this case study in depth in my dissertation, which interrogates the transnational, co-creation, and decolonized methodologies employed during the production of the documentary. This research travel support enabled me to investigate how this conceptual framework can be deployed to create cinematic representations that better reflect the multifaceted experiences and identities of migrants, while offering a nuanced perspective on the complexity of contemporary migration in the intermountain west. Thank you so much for your support!

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

This funding was incredibly valuable as it enabled me to travel across the intermountain west, from Colorado to Montana, in order to continue my work with community collaborators on this project. I’ve learned firsthand, over the course of the development of this project, that while online collaborations are possible, and much can be accomplished via phone, text, email, and video conference calls, there is nothing that can truly replace in-person collaborative work especially within the context of a community-based participatory research project. I learned that working and collaborating locally is logistically easier to enable back-and-forth of conversation and hands-on project work, shared storytelling and provisional review, and to maintain trust with collaborators. The collaborative sessions that we embarked upon also emphasized the importance of applied listening and discussion, and of revisiting goals and outcomes as the project progresses, in order to address changing circumstances, needs, and evolving perspectives of all participants. I look forward to reflecting on these lessons in more detail as I continue to analyze my field notes and firsthand experiences, and incorporate them into my dissertation.

Publications and/or presentations based on your Redd Center research or program:

I gave a presentation at the University Film & Video Association (UFVA) annual conference on July 29th 2022, titled "Community Conversations on Co-Creation

Insights for Creating Decolonized Depictions of Displacement" as part of a panel entitled "The Other Side: Race and Othering in Film & TV." More models are needed to guide practitioners and storytellers in putting co-creation’s key values – collaboration and empowerment – into practice when crafting stories about migration and other pressing global issues. Based on my research funded by the Charles Redd Center’s Summer Award for Upper Division and Graduate Students, I was able to collaborate on the editing of the interactive documentary

and to document the process I undertook with my Venezuelan collaborators. In my talk, I incorporated reflections from my research to explore tangible practices that might be useful to filmmakers in order to most closely realize co-creation's collaborative ideals. I interrogated strategies for forging connections across communities and cultures, such as trust-building and allowing for deep time, and how they might be utilized to reimagine relationships between filmmakers, host communities, and newcomers.

Next steps for your research process:

The next steps in my research process are to continue post-production work on "La Venezuela de mi corazón" ("The Venezuela of My Heart"). My goal is to complete the short film vignettes that will be featured in this interactive documentary by the end of 2022. I hope to finish website building and supplementary media creation, such as interactive photo galleries, animations, and a podcast, by the end of the 2022-2023 academic year. Simultaneously, I plan to continue work on my accompanying dissertation, "Towards Transnationalism: Exploring Venezuelan Immigration in the Rocky Mountain West through Co-created Documentary," which will be written alongside the production of the creative work, with the goal of completing this writing project in the 2023-2024 academic year.

Future plans for publication and/or presentations:

I plan to exhibit my creative work, the interactive documentary "La Venezuela de mi corazón" ("The Venezuela of My Heart") in the 2023-2024 academic year in university classrooms via collaborations with colleagues who teach in Journalism and Media Communication at Colorado State University, Cinema Production at Virginia Tech, Sociology and American Studies at Amherst College, and History and American Studies at Montana State University. I also plan to exhibit the project in global film festivals with web, new media, and interactive media categories, and to present it at academic conferences such as the University Film & Video Association (UFVA) and the Broadcast Education Association (BEA). Upon the completion of my dissertation, which is a multi-year project, I look forward to the possibility of updating and editing the manuscript for possible publication in the Humanities & Public Life Book Series from the University of Iowa Press.

Comments:

Thank you for your invaluable support of this research. It really means a lot to me and my collaborators! We are very grateful and thank you from the bottom of our hearts.



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Award Report

Name:	Kyle David Kittelberger	Email Address:	kyle.kittelberger@utah.edu
Address:	370 Kensington Ave Salt Lake City, UT 84115	Phone Number:	9198976096
Project Title:	Population Dynamics, Community Ecology, and Phenology of Migratory Birds In Southeastern Utah		
Organization/ Institution:	University of Utah	Submission Date:	10/08/2022

Name of Award Received:

Research Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The funds from the Charles Redd Center this year have been extremely helpful in supporting our bird banding operations this spring and fall at the Rio Mesa bird banding station. Each season, we set up a network of 16 mist-nets along the Dolores River in prime riparian habitat. This habitat is critical for migrating and breeding birds, and our banding operation aims to learn more about the birds utilizing this habitat and how these usages change over time. For all of the birds we capture, we fit a metal band on their leg and also record biometric measurements, such as length and weight, as well as information such as age and sex. We have also been testing a new scale for body emaciation of birds, something that myself and my colleague developed to assess the body condition of birds, particularly migrants, at a time when wildfires are becoming more severe.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Since this is part of a long-term research project, I do not have any findings to share right now; that will come after another year of field seasons most likely. But I can share how the funds exactly have supported our research project. As a research property, there is a \$5 per night charge for anyone that stays on the site, including our volunteers. This charge can be challenging for the volunteers, so the Redd Center funds were extremely helpful and beneficial in being able to support our volunteers during the spring banding season this year; the fall banding season has not finished yet. This support enables us and our volunteers to work well together on site and make each season possible. Being able to support our spring volunteer through our Redd Center funds allowed us to hire someone that might not have been able to assist us without these funds, and this thus provided an important and rewarding research experience for this person that he has since used to pursue other wildlife ecology field positions. Other purchases made this year using funds from the Redd Center include replacing equipment with new materials, such a banding scale, banding binder, walkie talkies, and caliper batteries; ten packages of envelopes for feather samples; paracord to help keep our nets in as good a condition as possible; a Kestrel Weather Device to help better assess temperature and wind conditions on site; and transportation to and from the banding station. After the current fall banding season ends, and after two additional seasons of net wear since the start of 2022, I will assess the status of all our nets and purchase more replacement mist-nets for this upcoming year (to replace nets that we used a lot this year).

Publications and/or presentations based on your Redd Center research or program:

I currently do not have any publications or presentations based on research conducted this year and supported by the Redd Center research program at Rio Mesa. After this current fall banding season ends, I will be writing a report on the spring and fall banding seasons- I can

send this to the Redd Center. The 2022 report will not only be sure to highlight the support of the Redd Center, but will also hopefully be publicly available on our Rio Mesa banding field page.

Next steps for your research process:

My research is not yet completed. In fact, currently the fall bird banding season is ongoing at Rio Mesa- it ends in early November. This season of research is also supported by the Redd Center grant I received. Since we band birds each spring and fall, the next steps in my research process will be more seasons of bird banding, and continued work on publishing papers utilizing the banding data that we collect. I am also at the point in my graduate school career where I am working towards the chapters of my thesis, and the data collected at our Rio Mesa banding station is a critical component of at least 3 of my chapters. Therefore, the funding support from the Redd Center is vital and beneficial to my graduate studies and thesis.

Future plans for publication and/or presentations:

I plan to work on papers that include findings while supported by the Redd Center grant. This includes working on 1) a paper focusing on the importance of measuring body emaciation in migratory birds, and introducing a usable scale so that other banding stations can start measuring this trait; and 2) a paper looking at the natural history, molt strategies, and recapture rates of Lucy Warblers banded at our station. I have also begun collaborating with a lab at Colorado State University on a genoscape project using collected feathers, including feathers that have been pulled while being supported by the Redd Center. I do hope that eventually this will lead to a publication, and if so I will of course note the support from the Redd Center. Finally, starting next year I will really be transitioning into beginning to write out my thesis chapters, and that includes 2 or 3 chapters including data while supported by the Redd Center. Those chapters will also eventually be published as well. Right now I am still in the data gathering phase for those thesis chapters.

Comments:

Thank you very much for the support from the Redd Center for my field research. This funding was instrumental in helping support our banding operations this year, volunteer banding assistants, and overall research project this year. I am hoping that I can continue working with the Redd Center going forward for future field research banding seasons and continue building upon and growing the professional relationship between myself and my lab and the Redd Center.



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Award Report

Name:	Mark Kreider	Email Address:	mark.kreider@umontana.edu
Address:	402 S 3rd St W #2 Missoula, MT 59801	Phone Number:	3167279747
Project Title:	Effects of immediate post-fire climate on longer-term forest development trajectories		
Organization/ Institution:	University of Montana	Submission Date:	10/12/2022

Name of Award Received:

Summer Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

This summer, funds I received from the Charles Redd Center allowed me to complete research exploring climate impacts on long-term forest succession in central Idaho. Leading a crew, we established 95 sites across the 1.3-million-acre Selway-Bitterroot Wilderness, where we measured forest composition and structure data and extracted ~2000 increment cores from trees. Using these data, I will explore whether forest structure and composition vary with differing initial post-fire climate. Funds from the Redd Center went towards food costs for our 4-person crew while we worked in the backcountry for extended periods. Funds were also invaluable in supporting the purchase of research equipment (e.g., increment borer cleaning supplies, fuel canisters, walkie-talkies, etc.).

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The bulk of this research is centered on tree increment cores, which take many hours in the laboratory to process. As a result, I do not have final results yet, but preliminary results suggest that forested landscapes regenerating after high-severity fire show high resilience, eventually returning to forest at the century timescale. However, when a fire is followed by hotter and drier climate, the rate of return of forest is delayed relative to cooler, wetter climates. Together, these results will help inform our predictions about how climate change may impact the future trajectory of forests across the western US.

Publications and/or presentations based on your Redd Center research or program:

As research/processing is on-going, I do not have any publications or presentations yet from this summer of research. However, I plan to present the findings from this research in 2023 at the Association for Fire Ecology Conference, as well present this work to managers of wilderness area where this work was conducted.

Next steps for your research process:

I have entered all the data collected via paper datasheets. Currently, I am working to glue tree cores onto supportive mounts, sand them to reveal rings, count rings and analyze growth trends and determine the age of trees. With this data, I will construct statistical models to answer the questions noted above. Following analysis, I will write a manuscript and submit my findings for publication in an academic journal.

Future plans for publication and/or presentations:

I plan to publish at least one paper using data collected at my field sites, and will certainly notify the Redd Center when I publish this work! Aside from academic journals, I will present my work at the Association of Fire Ecology's International Fire Congress as well as other regional fire and disturbance ecology conferences.

Comments:

I am very grateful for this support from the Redd Center! It was invaluable in making the summer field season a success. Thank you!



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Award Report

Name:	Mary Ludwig	Email Address:	ludwim2@unlv.nevada.edu
Address:	512 Greenbriar Place Boulder City, NV 89005	Phone Number:	307-631-6445
Project Title:	Incarcerated Nations: Removal and Confinement on Indigenous Lands		
Organization/ Institution:	University of Nevada, Las Vegas	Submission Date:	10/07/2022

Name of Award Received:

Research Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The Charles Redd Center's Research Award for Upper Division and Graduate Students provided the funding for me to research at the Chemehuevi Cultural Center at the Chemehuevi Indian Reservation this summer and begin to collect oral histories. In addition, the funds allowed me to study at the Mohave Museum of History and Arts in Kingman, Arizona. Finally, I also used the funds to visit the local library in Needles, California, in order to view the local history collections related to the Colorado River Indian Reservation and the communities surrounding it. These sites provided valuable local collections that informed my understandings of local history and Indigenous perspectives on the Colorado River Indian Reservation and its history of multiple incarcerations. The opportunity to meet Chemehuevi elders who have agreed to sit for oral interviews which will be donated to tribal libraries and the UNLV Library for others to access is also an invaluable experience that informs my research.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The Chemehuevi Cultural Center contains the newsletters of the Chemehuevi People who reconstituted their reservation and influenced the federal government to recognize their reservation after previously flooding it with the creation of the Parker Dam. These documents provided me with significant insight regarding Indigenous viewpoints on their forced removal from Chemehuevi to Colorado River and how Indigenous Peoples experienced removal and resisted by reconstituting their reservation. Speaking with Chemehuevi elders also provided me with insight into their connections with the land and the heartbreak that occurred when Indian agents removed children to boarding schools and when the federal government supported the creation of Parker Dam. The Mohave Museum of History and Arts provided nineteenth century documents from Arizona pioneers that capture early viewpoints on settler claims to land and the violence against the Hualapai, Mohave, and Chemehuevi. These materials inform my understanding of local pressures that contributed to the original decision to create the Colorado River Indian Reservation, In addition, they illustrate that while agents intended that the reservation would create a carceral setting, Indigenous Peoples defied these objectives through their labor and mobility in the local economy.

Publications and/or presentations based on your Redd Center research or program:

This past summer, I collected a significant amount of research and am currently working to develop this research into chapters of my dissertation. I have transcribed one oral history that will be made available to the Special Collections at the University of Nevada, Las Vegas, the Chemehuevi Cultural Center, and the Colorado River Indian Tribes Library and Archives. I am also working with the Chemehuevi to create an article that they can use for their own presentations. I hope to present this research at future conferences as I shape it properly. I am also applying to present at the Newberry Consortium of American Indian and Indigenous Studies for 2023.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

N/A

Comments:

I would like to thank the Charles Redd Center for their contribution to my research and work. While my dissertation is still in the early stages, the support for my research this summer has provided me with the foundation to write and present what I hope to be a valuable historical contribution to the history of the American West.



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Award Report

Name:	Kimberly Sheets	Email Address:	kimberly.sheets@wsu.edu
Address:	1630 NE Valley Rd Apt D303 Pullman, Washington 99163	Phone Number:	5094326173
Project Title:	The Social Lives of Animals: Elucidating Social Identity from Zooarchaeological Deposits in the Homol'ovi Settlement Cluster, Northeastern Arizona		
Organization/ Institution:	Washington State University	Submission Date:	10/14/2022

Name of Award Received:

Research Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Using the funds received from the Charles Redd Center, I was able to secure housing for a visit to the Arizona State Museum in Tucson, Arizona. There, I spent two weeks in June 2022 at the Homol'ovi Research Program Lab analyzing faunal collections from Homol'ovi I, a site with an extensive unanalyzed faunal collection. I compiled and analyzed approximately ~2,500 specimens during my time there.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The two weeks spent at the Arizona State Museum were critical for identifying salient deposits for further analysis. One such deposit included a storage structure (Str. 661) that yielded a rich assemblage of rabbit bones in addition to ceremonially important fauna, such as domestic dog, eagle, bobcat, and deer. Further analysis of this structure will yield important information about the nature of room fill deposits across the entirety of the Homol'ovi I pueblo village.

Publications and/or presentations based on your Redd Center research or program:

N/A

Next steps for your research process:

The research accomplished thus far has been critical for planning the next steps of my dissertation research on animal deposition in the Pueblo IV Period Southwest. I aim to build upon this existing data during the Spring 2023 semester. Additionally, I aim to select important species identified during my time at the Arizona State Museum to submit for strontium isotope analysis at Washington State University to assess the provenance of animals, such as dog and eagle. Results of both the zooarchaeological and strontium isotope analyses will subsequently be submitted and presented to the Hopi Cultural Preservation Office for tribal input and guidance.

Future plans for publication and/or presentations:

Presently, there are two goals related to publishing and presenting research funded by the Redd Center. First, I have submitted a poster abstract for the 2023 Society for American Archaeology meeting in Portland to present the preliminary zooarchaeological findings generated from June 2022. Second, I plan to write and submit a research article to the Arizona Archaeological and Historical Society student paper competition (due January 8, 2023). This paper will focus on contextualizing animal deposition with ethnographic literature and room function at Homol'ovi I.

Comments:

N/A



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Award Report

Name:	Bonnie Swenson	Email Address:	bonnie.swenson@gmail.com
Address:	440 N. Cedarview Dr. Orangeville, UT 84537	Phone Number:	435-749-0301
Project Title:	No One Died?: Uncovering the Voices of the Women of the Hole-in-the- Rock Expedition”		
Organization/ Institution:	Utah State University	Submission Date:	10/14/2022

Name of Award Received:

Research Award For Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

My research of the women who participated in the "Hole-in-the-Rock" Expedition revealed the women were young, averaging Twenty-one years old. The majority of these women were born in well-established communities that had been settled for over twenty years before the call came to settle the San Juan region. The majority left modern homes that were brick with multiple levels. These homes had kitchens, orchards, well-furnished parlors with rugs, and even pump organs. Many used treadle sewing machines to make tents and clothing for the journey.

Those who immigrated to Utah traveled by ship and railcar to Fort Laramie. They finished their journey on well-established roads to Salt Lake City. The exposure to the primitive accommodations experienced on the Trek would be a new experience for most of these women. These women used innovation to provide comfort for their families during the rough traveling and their temporary lodging at the "Hole" encampment. One woman created a bed suspended by ropes that allowed her children, especially her seven-week-old infant, to withstand the jarring journey. Lining the wagon boxes with rugs and placing a parlor stove in the wagon box for warmth and comfort was a common practice for these women. One woman wove a rug that was placed over the wagon cover frame under the canvas top. This additional covering had pockets sewn into the sides to help organize daily needed items. One woman set up her temporary housing at the "Hole" campsite by placing wagons on the sides and suspending the tent top. Then a small stove was placed inside, and the ground was covered with rugs to create a floor. This innovation gave her family a comfortable space to eat and sleep during the cold of December. These women contributed to the success of the Expedition.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

The extensive reading through thousands of pages of documents helped me understand the context of the time period, the work required to prepare for the Expedition, and the emotional challenges faced by individuals leaving behind well-established lives to start over in a hostile environment.

Much of the material I have reviewed has required extensive travel throughout the state. The grant afforded me the opportunity to visit different special collections such as the University of Utah, the Church of Jesus Christ of Latter-day Saints Church History Museum, Brigham Young University, Daughters of the Utah Pioneers Museum, Emery County Archive, Bluff Fort and Utah State San Juan Campus. Although some archives have started creating digital libraries, not every collection is available online and must be reviewed in person. Visiting these archives in person established connections that have helped my research. For instance, when visiting the San Juan Campus and the Bluff Fort, I was introduced to local historians whose extensive research and private collections would not have been brought to my attention without my visit there.

When I first started, I was looking specifically for women's journals. I learned journals of these women are limited, but I discovered many of their husbands kept a journal. As I combed through these writings, I found entries that gave me insight into women's lives and preparations for the Trek. I also found WPA interviews conducted during the 1930s provided good information. Often these interviews were of the older children of the Trek whose remembrance revealed small important details.

Letters have been a good source of information. There were at least five times the Expedition received and sent mail. Letters published in other works reveal details that give insight into women's lives. I also discovered an unpublished letter during my trip to Blanding.

Publications and/or presentations based on your Redd Center research or program:

I have received invitations to do presentations for the Bluff Fort Visitor Center and Daughters of Utah Pioneer camps in my local area. I have not submitted anything for publication because my work is ongoing.

Next steps for your research process:

Many sources have not been reviewed. Several of these sources are collections in the Church of Jesus Christ of Latter-day Saints Church History Library, Escalante Heritage Center, Utah State Historical Society, and Brigham Young University Special Collections. These collections are non-digital and require visits to the library. The Utah Historical Society has collections that cannot be viewed because of a remodel to their building which has halted research until the end of the year.

Future plans for publication and/or presentations:

My future plans are to continue to investigate and collect documentation which will then be compiled into a book. Recently the Church of Jesus Christ of Latter-day Saints, through familysearch.org, started to scan hundreds of family histories from the Blanding-Bluff area. These histories can be a vital link to those unknown stories of the Expedition. I plan to review them for any additional insights they might add to these stories. So much of the unique information I have gathered has been from these kinds of sources.

Comments:

I appreciate the funding, which differed the costs of traveling over 1500 miles. In a time of escalated gas prices, it was so helpful. As I research this topic, the play of family dynamics and polygamist relationships add a dimension not addressed by other narratives. Most narratives focus on building a 300-mile road, which is a magnificent story. As I have read and collected documentation, I see a larger picture, and when put in tandem with the road gives a fuller picture of these remarkable people who were brave enough to venture into the unknown.



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Award Report

Name:	Jacob Swisher	Email Address:	jswisher@nd.edu
Address:	434 Decio Hall Notre Dame, IN 46556	Phone Number:	7757905196
Project Title:	A Climate of Crisis and Opportunity: Violence, Native Sovereignty, and the Mid-Nineteenth-Century Dry Period in the New Mexico Borderlands		
Organization/ Institution:	University of Notre Dame	Submission Date:	10/15/2022

Name of Award Received:

2020 Award Recipients
2020 Charles Redd Center Award Recipients

Notification and instruction emails will be sent out to all applicants with specifics.

Annalee Naegle Redd Assistantship

John Bennion, English, Brigham Young University, "The Chimerical Desert (The Communitarian Poetry of Esther Ann Birch Bennion; Education in Rural Utah: Jeanette Sharp Bennion and Home School; Adaptation of an Easterner: Sergene Benson Bennion)"

David B. Magleby, Political Science, Brigham Young University, "Utah Public Opinion and Voting Behavior Over 60 Years"

Annalee Naegle Redd Student Award in Women's History

Allison Foster, Comparative Arts and Letters, Brigham Young University, "Cultural Appreciation and Appropriation in the Grand Canyon: Mary Colter's Desertview Watchtower"

Charles Redd Fellowship Award in Western American History

Erik J. Freeman, History, University of Connecticut, "The Mormon International: Communitarian Politics and the Church of Jesus Christ of Latter-Day Saints, 1830-1890"

Allison Kelley, History, University of Virginia, "High on the Mountaintop a Banner is Unfurled: Capitalism, Community, and Latter-day Saints' Twentieth-Century Economic Vision"

Farina King, History, Northeastern State University, "Miss Indian BYU Through Generations"

Samuel Lopez-Alcala, World Languages and Literature, University of Nevada–Reno, “Interpreters of the Intermountain West: An Essential Piece of American Western History”

Lauren Perry, English Languages and Literature, University of New Mexico, “Animal Texts: American Environmental Literature’s Intervention into Understanding Animals”

Clarence Dixon Taylor Research Grant

Heather C. Walser, History, Pennsylvania State University, “Amnesty’s Origins: Peace, Federal Power, and the Public Good in the Long Civil War Era”

Independent Research and Creative Works Award

Tim B. Graham, “La Sal Mountain Alpine Arthropod Communities: Establishing Baseline Conditions”

Amy Horn, “Identify Archaeological Sites Excavated by 1929 Seventh Bernheimer Expedition”

George R. Matthews, “Billy the Kid, Thomas Catron, and the Santa Fe Ring”

Interdisciplinary Research Grant

John Murphy, L. Tom Perry Special Collections, Brigham Young University; Christine Blythe, William A. Wilson Folklore Archives, Brigham Young University; and Ignacio Garcia, History, Brigham Young University; “Utah County Ethnic Restaurants and Histories Project”

John Topham and Susan Redd Butler BYU Faculty Award

Heather Belnap, Comparative Arts & Letters, Brigham Young University, “Artistic Frontiers: Women and the Making of the Utah Art Scene, 1880–1950”

Christopher F. Karpowitz, Political Science, Brigham Young University, “Western States 2020 Survey”

Michael Searcy, Anthropology, Brigham Young University, “Archaeological Testing at the Hinckley Mounds: A Fremont Indian Site in West Provo, Utah”

Fred Woods, Church History and Doctrine, Brigham Young University, “Saints of Las Vegas”

John Topham and Susan Redd Butler Off-Campus Faculty Award

Dylan McDonald, Library Archives and Special Collections, New Mexico State University, “The Teton Dam, Forty Years in the Making”

Laurie Mercier, History, Washington State University—Vancouver, “Remembering the Northern West: Women’s Oral History Narratives about Place, Work, and Family”

Bob H. Reinhardt, History, Boise State University, “The Atlas of Drowned Towns: The Snake River”

Public Programming Award

Better Days 2020, "Hard Won, Not Done Public Program"

Mormon History Association, "Journal of Mormon History initiative"

Northern Arizona University, "Biennial Conference: Voices for the American Southwest"

Sites Set for Knowledge, "Art History Tour of BYU and Provo"

Springville Museum of Art, "Grand Ambitions in Utah Art Exhibition"

Utah Museum of Fine Arts at the University of Utah, "2020 Spiral Jetty 50th Anniversary Celebration"

Western Historical Association, "2020 Annual Meeting. Public History Reception"

Western Literature Association, "2020 Western Literature Association Conference, San Diego, CA"

Summer Award for BYU Upper Division and Graduate Students

Stephanie Lambert, Anthropology, Brigham Young University, "Defining Utah Valley Fremont Rituals for the Closing of Houses and Communal Buildings"

Adam Norris, Plant and Wildlife Sciences, Brigham Young University, "Megafire Effects on Stream Nutrient Dynamics"

Peter Searle, Biology, Brigham Young University, "Comparative Analysis of Morphometric and Gene-Expression Patterns in larval June Sucker and Utah Sucker"

Travis Sowards, Wildlife and Wildlands Conservation, Brigham Young University, "Increasing Rangeland Restoration Success Using Target Fungicide Seed Coatings"

Summer Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

Funding from the Charles Redd Center enabled me to travel to Las Vegas, New Mexico and conduct research at New Mexico Highlands State University in late July. While there, I was able to work through the very large Arrott Fort Union collection and to identify and scan approximately 1,200 pages of primary source materials relevant to my proposed project. Having the opportunity to create digital versions of primary sources in the Arrott Fort Union Collection was incredibly useful to my work, as possessing digital copies enabled me to have the time to process a much larger volume of materials upon returning home from my trip and will also allow me to revisit these sources in future research projects. Currently, I have finished processing all of the materials from my July trip and have begun the process of developing my research into a preliminary article manuscript.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

Redd Center funds have helped me to understand both the role and perspective of the American state and the U.S. Army in conflicts with various indigenous groups in mid-nineteenth-century New Mexico much more deeply than I had anticipated. In part, as expected, I found reports about raids on cattle ranchers and violent conflicts between army regulars and indigenous bands which have been very helpful in piecing together the chronology and details of violent conflict during the extended mid-nineteenth-century dry period. However, having the time to explore the volumes in the Arrott collection also led me to begin paying attention to the role of the U.S. Army in provisioning American troops and providing supplies to military outposts, primarily because documents about supplies began appearing with a frequency I had not anticipated before heading into the archive. This happy surprise has led me to think much more deeply about the significance of institutionally managed, transregional supply networks in explaining why certain groups, such as the U.S. military and U.S. citizens, were

able to cope with the effects of drought more effectively than others. In particular, I think incorporating this framing into my project will allow me to not only shed new light on the climate history of U.S.-indigenous conflicts in the New Mexico borderlands but will also enable me to more clearly link the climate history of the American West to the contemporary climate crisis, especially as I think historically about the role of the state and state institutions in shaping how human communities experienced and, in the case of American ones, could survive in the midst of shifting conditions in New Mexico's mid-nineteenth-century climate.

Publications and/or presentations based on your Redd Center research or program:

In progress.

Next steps for your research process:

At this point, I think my primary source research is largely complete, though I may conduct additional work in historical newspapers as needed depending on where the process of transforming my research into an article manuscript takes me.

Future plans for publication and/or presentations:

I am currently working on a draft article manuscript based on the research for this project that I aim to complete by the end of the fall semester. Over winter break, I will circulate my draft manuscript to my advisor, Jon Coleman, and one of my dissertation committee members, Joshua Specht, for advice and comments, after which I will make needed revisions in the early spring. At that point I will determine an appropriate venue for submission, such as *Environmental History*, the *Western Historical Quarterly*, or the *Journal of the Southwest*.

I also plan to develop conference submissions for the annual meetings of the Western History Association and the American Society for Environmental History based on work from this research trip. Though having to delay my research travel due to COVID-19 restrictions at New Mexico Highlands State University during 2020 and 2021 was at first a major source of frustration, traveling in 2022 not only allowed me to think about the research trip in the context of the proposed project but also enabled me to consider how this research might inform my dissertation, which I began working on this fall. Presenting at conferences will help me to extend the usefulness of this research and travel beyond my draft article manuscript and to solicit feedback from other scholars on how the climate history of violence between indigenous groups and U.S. empire fits into my larger dissertation project, which examines encounters between people and their environments in the New Mexico borderlands within the context of the Little Ice Age (1300-1900).

Comments:

I just want to thank the Redd Center for the research funds, which have been incredibly helpful in advancing my broader research and publication agenda. Thank you, too, for being willing to extend my funding in light of the difficulty of accessing archives due to COVID-19.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Jeff Turner	Email Address:	jeff.turner@utah.edu
Address:	3771 S 1950 E Salt Lake City, Utah 84106	Phone Number:	6508681778
Project Title:	Mormon, Muslim, and Sikh Migration to the West—Empire and Religion in Federal Immigration Law		
Organization/ Institution:	University of Utah	Submission Date:	02/09/2023

Name of Award Received:

Summer Award for Off-Campus Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I traveled to Washington D.C. as soon as the National Archives and Research Administration opened its doors to researchers (after being closed for Covid) in the Winter of 2022. There, I took photographs of files related to: Latter-day Saint, Muslim, and Indian (mostly Sikh) Boards of Special Inquiry (transcripts of border hearings); a Bureau of Immigration investigation into Indian migration; a Bureau of Immigration investigation into polygamous migration; specific immigration cases related to Indian migrants in Seattle, Indian laborers in New Jersey, Indian migrants in San Francisco, Indian migrants through the Philippines; and specific deportation cases related to polygamy, religion, and racial exclusions. In total, I looked at 86 separate files in the span of four days.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I haven't finished looking through all of the sources, yet. But my current has shed important light onto my dissertation project. Indian migration through insular territories in the early twentieth century posed a particular threat to the Bureau of Immigration. They used the polygamy clause in federal immigration law as one way of excluding Sikh and Muslim migrants to the American West—particularly in 1909 and 1910. Though I haven't been able to find exactly why immigrant inspectors turned to the polygamy clause more in that time than in previous times, I have been able to find the ways in which inspectors asked about polygamy. They asked Indian migrants whether they believed in the "Koran," and then extrapolated that since the Qur'an supposedly justified polygamy, then those migrants who believed in the Qur'an must also thereby believe in polygamy. These migrants almost always answered that they didn't believe in polygamy, despite the particular questions that immigrant inspectors asked. This is exactly the concern that Utah Senators George Sutherland and Reed Smoot argued with Missouri Senator James A. Reed about amending the words of the polygamy clause in the 1917 Immigration Act—Sutherland didn't want to exclude migrants based on a "mere abstract belief," particularly through religion. These sources show that that question began much earlier than the act, and also began at the same time that immigrant inspectors on the East Coast excluded migrants from the Ottoman Empire. The West, I think, is an important part of the story of the development of this clause in federal immigration law. This is one of the many findings that I've been gathering from these sources. These sources show that federal immigration law used religion as a way to categorize desirability and undesirability of migrants at the turn of the twentieth century.

Publications and/or presentations based on your Redd Center research or program:

"Mormon, Muslim, and Sikh Migration to the West—Empire and Religion in Federal Immigration Law," *Pacific Historical Review*, Aug. 15, 2022, special edition, forthcoming.

Next steps for your research process:

I'll continue to read through these documents. They have ultimately allowed me to complete my dissertation project, which I hope to finish by summer 2023.

Future plans for publication and/or presentations:

I have an article forthcoming in the Pacific Historical Review. I hope to present this research for at least one future conference (I'm applying this weekend to present). And I will use some of these sources in a digital mapping project that I'm currently designing.

Comments:

Thank you! And thank you for your patience, Amy!



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BYU Redd Center
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Award Report

Name:	Brian Wright	Email Address:	brianwright@princeton.edu
Address:	129 Dickinson Hall Princeton, New Jersey 08540	Phone Number:	2099189580
Project Title:	Conquest on Paper: Archives and the American West		
Organization/ Institution:	Princeton University	Submission Date:	10/14/2022

Name of Award Received:

Research Award for Upper Division and Graduate Students

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I used the Charles Redd Center funds to spend a week in Santa Fe, NM to conduct archival research at the New Mexico State Archives and the Chávez Library in the New Mexico History Museum for my dissertation, entitled *Conquest on Paper: Archives and the American West*. The funds paid for my lodging and travel and allowed me ample time to scan the documents I needed for viewing once I returned home.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

I approached this archival trip with two historical threads in mind: first, documents relating to the Court of Private Land Claims, a special tribunal established in New Mexico Territory in 1891 to adjudicate contested land claims, many of them stemming from centuries-old Spanish colonial land grants; and second, material relating to the New Mexico Historical Society, one of the oldest such historical societies in the trans-Mississippi West and by far the oldest in the U.S. Southwest. I'm still not yet done reading all of the documentation, but from what I've read so far I can gather important themes from each strand of inquiry. First, the Court of Private Land Claims was, as I had hoped, overwhelmed by the sheer volume of documentation submitted to the court and under its purview. My previous research on a similar tribunal in nineteenth-century California revealed that these land battles were as focused on processing and interpreting documentation as they were formulating legal scriptures. Regarding the New Mexico Historical Society, I was surprised that the early books of meeting minutes and acquisition records held at the Chávez Library revealed a more diverse set of collecting interests than I had expected. Society brass appeared to collect a range of Hispanic and Indigenous objects and documents, alongside the usual Anglo "Pioneer" material. I'm most satisfied that the material I viewed has been both confirming of my hunches and surprising--and, therefore, generative.

Publications and/or presentations based on your Redd Center research or program:

All of this research will be included in my dissertation, and potentially in a future peer-reviewed journal article that I will try to draft and submit next year.

Next steps for your research process:

I'm still finishing up my first read-through of the documents, and I'm taking notes as I go. The next step would be to draft a chapter for my dissertation that will combine my findings on New Mexico's Court of Private Land Claims and California's Board of Land Commissioners to argue that the nineteenth-century West's land battles were, among other things, battles over documentation.

Future plans for publication and/or presentations:

All of this research will appear in my dissertation (and, perhaps, an academic monograph in the future) and potentially in a peer-reviewed journal article. I will certainly credit the Charles Redd Center in any and all acknowledgments where this research will appear.

Comments:

Thanks to the Charles Redd Center for such a fantastic array of funding opportunities for scholars to conduct their research--at all levels and for all kinds of different projects!



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INTERDISCIPLINARY RESEARCH GRANTS

RICHARD DAVIS, POLITICAL SCIENCES, BRIGHAM YOUNG UNIVERSITY; LESLIE HADFIELD, HISTORY, BRIGHAM YOUNG UNIVERSITY; DAINAN SKEEM, SPECIAL COLLECTIONS, BRIGHAM YOUNG UNIVERSITY; "LATTER DAY SAINT FAITH AND POLITICS ORAL INTERVIEW PROJECT"

BRYAN G. HOPKINS, PLANT AND WILDLIFE SCIENCES, BRIGHAM YOUNG UNIVERSITY; RUTH KERRY, GEOGRAPHY, BRIGHAM YOUNG UNIVERSITY; PHILIP LUNDGREN, ELECTRICAL AND COMPUTER ENGINEERING, BRIGHAM YOUNG UNIVERSITY; "WATER CONSERVATION: SPATIO-TEMPORAL ANALYSIS AND VARIABLE RATE IRRIGATION IN THE URBAN ENVIRONMENT"

Award Report



BYU Readd Center
Charles Readd Center for Western Studies

Name:	Richard Davis	Email Address:	richard_davis@byu.edu
Address:	745 SWKT Provo, UT 84602	Phone Number:	8014223423
Project Title:	Latter-day Saint Faith and Politics Oral Interview Project		
Organization/ Institution:	BYU Political Science	Submission Date:	03/21/2022

Name of Award Received:

John Topham and Susan Reed Butler Faculty Grant Award

Brief narrative of the research you accomplished with funds received from the Charles Readd Center:

In cooperation with Leslie Hadfield of the History Department, four student assistants were trained in oral history interview techniques. Those student assistants, along with myself, held 77 oral interviews of Latter-day Saint politicians. All but one was conducted via Zoom and lasted from 30 to 90 minutes in length. The politicians interviewed included a former U.S. Senator, several former members of Congress, a former U.S. Under Secretary of the Treasury, a lieutenant governor, state legislators, city council members, mayors, and school board members. Those interviewed were Republicans, Democrats, and independents. Some were current officeholders. Others were former ones. The vast majority were from the western United States - Utah, Idaho, Arizona, Nevada, Wyoming, California, and Washington. Some were from other parts of the United States, including Minnesota, Arkansas, and New Hampshire. And a few were international - the United Kingdom, Canada, Belgium, Switzerland, Germany, and Mali.

They were asked questions about how their religious beliefs have affected their political careers including use of inspiration in decision making, choice of policy issue positions, and the relationships with other politicians as well as with their constituents. We asked them their opinions about the extent to which religion should play a role in political life, whether incivility is a problem today, and how they thought Latter-day Saints could help address that problem.

The interviewees were helpful in illuminating how a Latter-day Saint deals with questions of party loyalty, the influence of religion, and how Latter-day Saints can deal with the challenges a religious believer faces in the secular world of politics.

With the assistance of Dainan Skeem, these videos and transcripts will be housed at BYU Special Collections.

Specifics on how Readd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

We learned how Latter-day Saint faith and practice influences LDS politicians. One of the questions we asked was what advice they would give to students contemplating careers in politics. They offered important insights about how to work with others, avoid dogmatism, find common ground while not compromising principles, and remembering what is most important in the midst of political struggles.

Publications and/or presentations based on your Readd Center research or program:

There are no publications or presentations. Instead this is an archive that will be readily available to scholars, students, and the general public.

Next steps for your research process:

It is completed. The videos and transcripts are in the hands of Special Collections.

Future plans for publication and/or presentations:

I have submitted a book manuscript to the Religious Studies Center that includes some of the interviews in transcribed form. It is under review at this time.

Comments:

I want to express my gratitude to the Redd Center for funding this research. I believe this project will be of significant value to future scholars and students of religion and politics, particularly regarding the Church of Jesus Christ of Latter-day Saints.



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BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Bryan G Hopkins	Email Address:	hopkins@byu.edu
Address:	4105 LSB Provo, UT 84602	Phone Number:	8016026618
Project Title:	Water Conservation: Spatio-Temporal Analysis and Variable Rate Irrigation in the Urban Environment		
Organization/ Institution:	Plant and Wildlife Sciences/ Brigham Young University	Submission Date:	11/25/2022

Name of Award Received:

Interdisciplinary Studies Grant

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

The overall, long-term goal of this project is to use machine learning combined across advanced technologies (Smart Irrigation Controllers; Soil Moisture Tension Sensors; Plant Temperature, Moisture, and Health Sensors; and Valve-in-Head Sprinklers) to enable automated irrigation for water savings while allowing for the many benefits of vegetated urban landscapes. As related to our proposal objectives, our accomplishments include:

- 1) We successfully gathered spatial information on soil moisture and grass health following known uniform irrigation application rates using ground survey and drone flights.
- 2) We made progress on determining the optimal locations for installing buried soil moisture sensors, although there is still further work that is needed in order to optimize placement.
- 3) We successfully quantified water saving potential for this system.
- 4) We successfully validated the method for successful turfgrass growth with at least 50% less water.
- 5) We have made some progress but are still in process of development of the software used to drive the sprinkler application rates.
- 6) We are in process of leveraging the data from this study to publish our findings and then write grant proposals to secure future external funding for a fully integrated “smart irrigation system”.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

We discovered the following:

- 1) Analysis suggests that zones based on spatial soil moisture surveys are better than those based on other variables. Zones should be re-evaluated before each irrigation. However, a less labor-intensive solution is to determine temporally static zones based on the similarities in patterns of soil moisture from several surveys.
- 2) Placement of buried sensors is not a simple task due to spatial and temporal variability. Temporally static zones based on patterns may be possible for intensive management (golf, sports fields, etc.), but we continue to seek a solution that would be more conducive for less intensively managed landscapes.
- 3) We validated that the technology integration we are working towards will indeed provide dramatic water savings, as outlined in the next point, once we can deploy the system.
- 4) We confirmed that the average landscape can be successful with 50% less water. Furthermore, we gain additional savings if applying irrigation at a variable rate and when using irrigation Best Management Practices (BMPs). Our data shows a minimum of 75% and up to 90% water savings when employing these techniques—allowing for grass in landscapes while significantly conserving water.

5) We have discovered what we feel is the best way to approach the machine learning, but our efforts thus far have not been completed. We have partnered with others at Colorado State University and Meter Group in an effort to assist with this objective that is ongoing.

6) We have given four presentations at scientific meetings with published abstracts and four invited presentations. Two manuscripts have been published, another submitted, and two more in preparation. Once the publication that is submitted is In Press, we intend to leverage these published findings to seek funding from several water conservation grants available from federal, state, local, and industrial sources.

Publications and/or presentations based on your Redd Center research or program:

Abbreviated citations:

Burgin et al. 202x. Variable rate irrigation in turfgrass. *Journal of Turfgrass Management* (in preparation).

Burgin et al. 2022. Hybrid Bermudagrass and Kentucky Bluegrass Response to Deficit Irrigation in a Semi-Arid, Cool Season Climate. ASA*CSSA*SSSA International Meeting.

Burgin et al. 2022. Variable impacts on growth of deficit irrigation on *Cynodon dactylon* (L.) Pers. × *Cynodon transvaalensis* Burt Davy and *Poa pratensis* L. *International Turfgrass Society Research Journal*. 14:152–156.

Campbell et al. 2022. Water Management - 3 Tools You Might be Missing. ASA, CSSA, SSSA International Annual Meeting ASA*CSSA*SSSA International Meeting.

Henrie et al. 2022. Investigating the Potential for EM38 Data to Detect Changes in Spatial Patterns in Soil Moisture for Turfgrass Management. ASA*CSSA*SSSA International Meeting.

Hopkins, B.G. 2022. Healthy grass & environment: New technologies for smart water & nutrition. Golf Course Superintendents Association of America (GCSAA) conference and trade show. (invited)

Hopkins et al. 202x. Water conservation techniques in turfgrass. *Journal of Turfgrass Management* (in preparation).

Hopkins et al. 2022. Water management: Cutting-edge precision tools you may be missing. Sports Turf Managers Association (STMA) Annual Meeting (invited).

Hopkins et al. 2021. Irrigation: Grass health, surface quality, and sustainability. Sports Turf Managers Association (STMA) Annual Meeting (invited).

Hopkins and Hull. 2022. Caring for your grounds with smart irrigation. American public works association (APWA) facilities and grounds committee; 28 April 2022. (invited).

Kerry et al. 2021. Spatial analysis of soil moisture and turfgrass health to determine zones for spatially variable irrigation management. ASA*CSSA*SSSA International Meeting.

Kerry et al. 2022. Spatial analysis of soil moisture and turfgrass health to determine zones for spatially variable irrigation management. Proceedings of the 15th International Conference on Precision Agriculture.

Kerry et al. 202x. Spatial analysis of soil moisture and turfgrass health to determine zones for spatially variable irrigation management. *Crop Science* (submitted Oct. 2022).

Next steps for your research process:

1) Continue evaluating ways to improve spatial analysis of soil moisture, including heat sensors.

2) Conduct a two-year study on “how low can we go?” We will deploy all of the tactics we’ve compiled to evaluate how little irrigation we can use. We will ramp down the irrigation rates gradually until we observe the onset of dormancy and then we’ll raise it back up until we find an equilibrium.

3) We are still working towards the machine learning aspect of this project to digitally integrate the technologies now that we have a proof of concept. Once complete, we will begin a study to evaluate the robustness of the system and water savings realized.

4) We will finish publishing the papers we are working on.

5) We will seek grant funding to assist with the machine learning.

Future plans for publication and/or presentations:

We will continue to present our work with 2-3 presentations per meeting for the Sports Turf Managers Association, Golf Course Superintendents Association of America, Turfgrass Sod Producers International, and the ASA*CSSA*SSSA.

We will finish publishing the three papers we are working on currently. We anticipate at least three more papers after these upon completion of further work.

Comments:

Thank you. There isn't much that is more important to the western USA than water. Conservation is vital. Your funding has assisted us in this endeavor.



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VISITING FELLOW

SHEILA NADIMI, VISUAL ARTS, JOHN ABBOTT COLLEGE



BYU Redd Center
Charles Redd Center for Western Studies

Award Report

Name:	Sheila Nadimi	Email Address:	sheila.nadimi@johnabbott.qc.ca
Address:	43 Elmwood Ave Senneville, Quebec, Canada H9X-1T6	Phone Number:	514-346-7827
Project Title:	Eagle Village (A deep mapping of the former Intermountain Indian School site)		
Organization/ Institution:	John Abbott College	Submission Date:	10/14/2022

Name of Award Received:

Visiting Fellow Award

Brief narrative of the research you accomplished with funds received from the Charles Redd Center:

I was granted an office at the BYU campus and I spent a three month tenure period (October-December 2021) expanding the research for this project, finalizing the writing of the manuscript for the book, and establishing connections with scholars in the field. The Arthur V. Watkins papers held at the L. Tom Perry Special Collections and the extensive holdings at the Harold B. Lee library were instrumental in deepening my investigation. During my tenure at BYU I took weekly trips to Brigham City where I could continue my research at the Brigham City Museum of Art and History as well as the small municipal library. The opportunity to be back in Utah was also helpful in completing this project. By the closure of my award tenure I had achieved more than I anticipated with this project.

Specifics on how Redd Center funds assisted you in answering your research questions or accomplishing your research/programming goals:

This three month residency at Brigham Young University gave me exposure to archives and books that I would not have had access to otherwise. I was reminded how much scholarly works are still only in book form and not digitized. These archives and books were essential to my research. I returned to Montreal with a book manuscript that I felt was more rigorous than the one I arrived with. I also took advantage of attending various talks held on campus included all the talks sponsored by the Charles Redd Center which helped expand my knowledge of some of the research topics that are taken up by scholars of the American West.

Publications and/or presentations based on your Redd Center research or program:

In addition to a book manuscript, which is forthcoming, the following scholarly events/publications are a direct outcome of my research and outreach undertaken during my Visiting Fellow Award tenure.

- December 2021: Faculty Luncheon: Charles Redd Center for Western Studies, Brigham Young University
- December 2021: Conference presentation (virtual). International Commission on Art and Cartography
- July 2022: Conference presentation: York University-Open University-London, United Kingdom.
- Invitation to publish peer reviewed essay: 'Open Arts Journal', UK.

- Invitation to publish in Special Issue of International Commission on Art and Cartography Journal (due January 30, 2023)

- Lecture: Weber State University, Ogden Utah. Invitation for fall 2024.

- Museum Exhibition Norah Eccles Harris Museum of Art, Utah State University. Invitation for January 2025.

I am also awaiting a response for an application to present at the Urban Humanities Global Conference to take place in Tucson, Arizona in March 2023.

Lastly, an article was just published on my project in the Fall 2022 issue of Utah State Magazine <https://utahstatemagazine.usu.edu/culture/finding-their-place-preserving-intermountain-indian-school-art/>.

Next steps for your research process:

N/A

Future plans for publication and/or presentations:

My 400 page book is in the final stages of book design and the Charles Redd Center is acknowledged in both the Preface and the Acknowledgments page. Additional future publications stemming from this project are noted above.

Comments:

Thank you for the opportunity.



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