

UNIVERSITY OF WYOMING
Endowed Faculty Report
From the Office of the Vice President for Academic Affairs
1 OCTOBER 2020

To the Joint Appropriations and Joint Education Interim Committees

The University of Wyoming has benefited greatly from the Excellence in Higher Education Endowment, which allows the university to establish state-funded endowed faculty positions to advance teaching and scholarship in the areas of distinction defined in the university's strategic plan. It has also benefited from state appropriations targeted toward faculty positions in legislatively identified areas of priority, in particular, the School of Energy Resources positions and the Sustainable Business Practices positions. Furthermore, faculty positions supported (partially or fully) by private endowment gifts through the University of Wyoming Foundation enhance UW's teaching and research programs in areas of mutual interest to the institution and its donors. This report covers all such positions. Part A covers the Excellence in Higher Education Endowment (a continuation of legislative reports prepared annually); Part B covers other faculty positions identified in legislative appropriations; and Part C covers privately endowed faculty positions.

Part A. Excellence in Higher Education Endowment Report
[Pursuant to W.S. 21-16-1204]

1. Background

Created in 2006, the Excellence in Higher Education Endowment was funded at \$105 million, the earnings from two-thirds of which, or \$70 million, was designated to the University of Wyoming. Earnings on the state-managed endowment, which are distributed by the state treasurer to the university, allow the university to establish endowed faculty positions (known as Wyoming Excellence Chairs) and to acquire instructional and scholarly materials, classroom equipment, and other resources necessary to support the work of endowed chairs. Distributions to the university are based on a spending policy of 4.75% of the average of the market value of the corpus for each of the preceding five (5) fiscal years or the fiscal years up to five for which there was a balance.

The statute imposes some constraints on the uses of the endowment earnings. Not less than 2/3 of the amounts must be used to expand university instruction and research in disciplines related to economic and social challenges facing Wyoming. No fewer than four Wyoming Excellence chairs must be in the College of Education. The remaining endowed faculty members must have established reputations in other areas of distinction as identified in the university academic plan, including business, arts and humanities, mathematics, cultural studies, healthcare, economics and law.

To jump-start the program while the endowment corpus was filling, and pursuant to Senate Enrolled Act 54 Section 1 (c) (ii), the Legislature appropriated \$2.8 million in one-time funds, subsequently reduced to \$1.8 million, to be distributed to the University of Wyoming and expended exclusively for the purposes specified in W.S. 21-16-1202 (b). The one-time appropriation allowed the university to begin filling positions in fiscal years 2007 and 2008. Those initial positions were then funded permanently with earnings from the Excellence in Higher Education Endowment.

2. Summary, history, and accomplishments of authorized positions

Under W.S. 21-16-1204, UW must report annually on faculty positions partially or fully funded through the endowment program, including the name of each faculty member filling a Wyoming Excellence chair, their education and experience, their research and instructional activities, and the benefits of their research and instruction.

The jump-start appropriation became effective July 1, 2006. The provost developed a planning budget for the allocation of positions to be supported with these funds during the 2007-2008 biennium, while the \$70M endowment account began to fill. Based on the planning budget, three searches were authorized with jump-start funds: two in the College of Education (fulfilling one-half of the legislative mandate requiring four positions in the College of Education) and one in the College of Arts and Sciences Creative Writing MFA program (aligned with UW's area of distinction Cultural Assets, Arts, and Humanities).

During the second year of that biennium, as more information became available about anticipated payouts to the university from the state-managed endowment account, the provost's office authorized more searches, in two phases. Seven additional Wyoming Excellence endowed positions were authorized during fiscal year (FY) 2008, and five more were authorized in July 2008 for a total of fifteen authorized endowed faculty positions. Four of these 15 positions were to be funded with earnings combined from both the state account and private endowment gifts to the university, allowing for a greater number of search authorizations and establishing a unique private-public partnership in endowing distinguished professorships.

The decision to authorize the 15 fully or partially funded positions was based on a budget for salary, benefits, and other position-related costs consistent with the projected payout estimates provided by the state treasurer's office prior to the financial market declines realized later in FY2009. Subsequent financial market events mandated the need to reevaluate the size of the budget and number of permanent positions that could be supported by the endowment earnings. Given the need for exceptional prudence in filling permanent faculty positions, and consistent with representations to the Joint Appropriations Committee, the university placed a number of the previously authorized searches on hold through FY2010. At the beginning of FY2011, following careful evaluation of the anticipated earnings stream and the accumulated reserves held in the university account, the provost authorized searches to fill a number of the on-hold positions, including some for a bridging period only in order to ensure that permanent funding commitments would remain in line with the anticipated funding stream. Then, at the beginning of FY2013, based on having received a significantly larger payout during FY2012 and as well as enhanced projected payout estimates from the state, and a substantial private gift, the provost was able to complete the originally planned position allocations, and augment the program with additional allocations to Nursing, Law, the Haub School (in collaboration with the College of Business), Global and Area Studies, and American Indian Studies.

In FY2020, twelve (12) positions were funded and additional positions were supported with endowment funds. Although all positions are subject to available funding in any year, the ongoing annual expenses associated with filling the 12 funded positions were in line with the state projections for annual earnings. The expenses associated with the additional bridge-funded (or temporarily) supported positions are funded with accumulated reserves beyond those needed to cover the risks of another period of earnings declines. Individual plans are in place to support each of the bridge-funded positions after the period of support by the Endowment has ended.

The 12 authorized positions conform to the legislative mandate. Four positions in Education, as prescribed by the legislation, have been created and all are important to the future of K-12 education in the state: literacy education (2 positions), science education, and mathematics education. The strategy for allocation of the other

positions was to coordinate a set of positions in the life sciences, an institutional area of distinction identified in the university’s strategic plan, and to build greater depth in other areas of distinction, including the arts and humanities, and professions critical to the state such as business, law, and health professions. In addition, positions were selected for allocation based on their potential to address economic and social challenges in the state, such as community economic development, livestock and wildlife disease, managing natural resource conflicts, water management, and preparing for a global economy. Endowment for Excellence position allocations complement a group of faculty positions focused on energy resource sciences that are funded by the School of Energy Resources. The allocation strategy is reflected in the following table, and the accomplishments of the currently filled positions and the benefits of their research or instruction to students, businesses, industries or other Wyoming residents are described in detail below.

Allocation strategy	# Permanent Positions	College/Academic Unit	Names
Education	4	Education	Dr. Cynthia Brock, Dr. Leigh Hall, Dr. Rick Kitchen, Dr. Tim Slater,
Life Sciences, Environmental and Natural Resource Sciences, Earth and Energy Sciences	3	Agriculture & Natural Resources; Engineering & Applied Science; Haub School	Dr. Melinda Benson, Dr. Holly Ernest, Dr. Mohammed Piri
Professions Critical to Wyoming (other than education)	3	Law/Haub School Health Sciences (Nursing, Kinesiology & Health Promotion)	Temple Stoellinger, Dr. Christine Porter; Danielle Cover
Other Economic and Social Challenges	2	Agriculture & Natural Resources; Haub School	Dr. Steven Smutko, Dr. H. Jo Albers

FY 2020 Accomplishments of Wyoming Excellence Chairs

COLLEGE OF EDUCATION

Four of the permanent positions reside in the College of Education, with focuses on literacy, science education, and mathematics education. The individuals who hold these positions are developing and leading nationally recognized programs in these fields and are expected to be magnets for attracting the best and brightest junior faculty and students into these critical areas of teaching need in Wyoming. These positions represent the four Wyoming Excellence chairs that must, by law, be in the College of Education.

Dr. Cynthia Brock, (Ph.D. in Educational Psychology, Focus: Literacy & English Learners, Michigan State University) *Wyoming Excellence Chair in Elementary Literacy Education*. Across the past year, Dr. Brock worked with Dr. Dana Robertson (Executive Director of the Literacy Research Center and Clinic) and Dr. Leigh Hall (Wyoming Excellence Chair in Adolescent Literacy Education) to develop collaborative research/professional development literacy learning partnerships in schools in the following counties: Teton, Sublette, Natrona, and Albany. Dr. Brock was one of the co-chairs of the 2019 UW Literacy Research Center and Clinic Annual Literacy Conference; administrators and educators from across Wyoming and Colorado attended this annual literacy conference. This UW LRCC Literacy Conference and professional development work has benefitted hundreds of educators and children across the state of Wyoming by providing state-of-the-art literacy instructional ideas to Wyoming educators. Working with a leadership team from the College of Education, Dr. Brock successfully implemented the third year of the College of Education Academic Writing Fellows Initiative; this is a yearlong initiative that started in June 2019 and ended in June 2020. Years one through three of this initiative were so successful that the Initiative was extended to a fourth year. Dr. Brock collaborated with Drs. Amanda DeDiego and Andrea Burrows to implement the third year of the College of Education Mentoring Program. For the second year in a row, Dr. Brock served as the Chair of the College of Education Tenure and Promotion Committee and a Co-Chair of the College of Education Diversity Committee. The College of Education initiatives developed by Dr. Brock and her colleagues—and Dr. Brock’s work serving on committees in the College of Education—benefit the residents of Wyoming because they provide ongoing learning, development, and support to the educators who teach the pre- and in-service teachers in the state of Wyoming. In conjunction with Dr. Dana Robertson, Dr. Brock sponsored a group of UW doctoral students to attend and present research at the 2019 Literacy Research Association Conference. Dr. Brock was awarded a 2020 UW College of Education Advising Award for her work with graduate students in the College of Education. Dr. Brock served the first year of a three-year term on the Literacy Research Association Board of Directors. As well, Dr. Brock serves on the Wyoming English Language Arts Council (WELAC) Board of Directors. WELAC is the Wyoming affiliate for the National Council of Teachers of English. Dr. Brock serves as a consultant to a Bureau of Indian Education (BIE) grant focused on preserving Northern Arapaho language and culture that was awarded to St. Stephen’s Indian School in Riverton, Wyoming. Across the 2019/20 year, Dr. Brock co-wrote three grants and one handbook chapter; she also published seven journal articles and co-wrote two book chapters. Dr. Brock’s state, national, and international scholarly work benefits the teacher educators and educators she serves in the state of Wyoming because her ongoing learning and development informs the nature of the work that she does with teacher educators, educators, administrators, and children in the state of Wyoming.

Dr. Richard Kitchen, (Ph.D. Curriculum & Instruction Mathematics Education, University of Wisconsin-Madison) *Wyoming Excellence Chair in Mathematics Education*. In 2019-20, Dr. Kitchen continued in his role as the coordinator of the Ph.D. degree program in Mathematics Education at the University of Wyoming. In fall 2020, 13 students will be enrolled in the program (one student successfully defended his dissertation in spring 2020). The vast majority of the students in the Ph.D. degree program in Mathematics Education live and work in Wyoming. During the 2019-20 academic year, Dr. Kitchen led the effort to initiate an Ed.D. Concentration in Mathematics Education in the College of Education at UW. The new degree program received final university approval in spring 2020 and recruitment for the program will be initiated in fall 2020. The goal is to have an initial cohort of 8 students in the program for the fall 2021 semester. In 2019-20, Dr. Kitchen was active in Wyoming and nationally working as a consultant and professional development provider for school districts in the areas of mathematical content and pedagogy. He continued to support initiatives in Converse County School District #1 to improve secondary mathematics instruction. In collaboration with the Los Alamos National Laboratory Math & Science Academy, Dr. Kitchen also led professional learning workshops in mathematics for elementary and middle school teachers in northern New Mexico. In March of 2020, Dr. Kitchen was the Co-Chair of the First Annual Education Summit. The intent of the Education Summit is to provide UW College of Education faculty and students with a professional venue where they can share their scholarly and teaching expertise with the COE community. Internationally, Dr. Kitchen served as an external reviewer for the South African National Research Foundation (NRF) in its work to find a national replacement for the South African Research Chairs Initiative in Mathematics Education. During the 2019-20 academic year, Dr. Kitchen co-authored one grant proposal submitted to the National Science Foundation (NSF) and published three refereed journal articles. Dr. Kitchen presented his research at the National Council of Teachers of Mathematics (NCTM) 100 Days of Professional Learning Series and the 41st Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA). Two presentations that had been accepted for presentation were cancelled because of COVID-19; talks to be given at NCTM's Centennial Annual Meeting & Exposition and the 2020 NCTM Research Symposium.

Dr. Leigh A. Hall, (Ph.D. Curriculum and Instruction, Michigan State University) *Wyoming Excellence Chair in Literacy Education*. As of June 30th, 2020, Dr. Hall has completed her two-year research project on online teacher education to help middle and high school teachers improve their literacy instruction. She received 100,000.00 in the fall of 2018 to help support this work. A total of 1,078 teachers participated with 808 (75%) of those being from Wyoming. While the majority of teachers were from the U.S., 3% were from other countries including Canada, Australia, India, and Honduras. As a result, the work of this project had an international reach. Sixty-five professional development courses were developed to support teachers involved in this work. Data is currently being analyzed; however, initial results show that teachers found the structure and of the online approach useful and that their experiences within the courses improved their overall understandings about literacy instruction. Additionally, Dr. Hall, in conjunction with Dr. Cynthia Brock and Jeff Makelkey, principal of Big Piney High School, published an article in *Principal Leadership* outlining how this work was developed and the impact it had on teacher learning. With a circulation of 135,000, this project has begun to make an impact on a national level in regards to how we design and implement professional learning for teachers in ways that can benefit everyone. With the support of the College of Education, Dr. Hall has completed redesigning the literacy master's program. This program is set to go through the approval process in Fall 2020 and begin in Fall 2021. This new program allows for teachers to develop both broad and deep knowledge in literacy education in order to effectively teach diverse learners. Dr. Hall had manuscripts published *Research In the Teaching of English* and the *Journal of Adolescent and Adult Literacy*. Her conference presentations were featured at E-Learn.

Dr. Tim Slater, (Ph.D. Geological Sciences, University of South Carolina) *Wyoming Excellence Chair in Science Education*. Dr. Slater is a Professor in the College of Education's School of Teacher Education and Adjunct Professor in the College of Arts & Science's Department of Physics & Astronomy. Dr. Slater is a prolific author being cited thousands of times by international scholars, having published more than 100 refereed journal articles, 26 books, and presented hundreds of papers at conferences, often with his graduate students as co-authors, describing his scholarly research on understanding the underlying cognitive mechanisms related to teaching and learning in introductory science survey courses taught to undergraduates and future teachers. An expert in enhancing STEM education for indigenous students both in Wyoming and across the Pacific-islands, Professor Slater serves as the Editor-in-Chief for the Journal of Astronomy & Earth Sciences Education, Senior writer for the Society of College Science Teachers, and as Co-Editor for the Science Division of the Contemporary Issues in Technology and Teacher Education for the International Association for Science Teacher Education. Winner of numerous national awards and frequently an invited speaker at education conferences worldwide, he teaches graduate-level courses in evidence-based education research methods and the learning sciences for the College of Education each year to teachers across Wyoming. Along with Wyoming graduate students, he further impacts the state by conducting summer and weekend professional development workshops for K-12 teachers and professors across Wyoming, including co-hosting the Wyoming Society of College Science Teachers Conference in Casper. Professor Slater is working closely with Wyoming STEM teachers to pursue extramural grant funding opportunities to create state standards-aligned curriculum materials and provide professional development workshops supporting Wyoming K-12 teachers and students to learn to engineer and fly drone quadcopters and earn FAA certifications in the service of enhancing Wyoming's STEM, computer science, and CTE/IT education programs.

LIFE SCIENCES, ENVIRONMENT AND NATURAL RESOURCES, AND EARTH AND ENERGY SCIENCES

Melinda Harm Benson, (J.D., University of Idaho) *Wyoming Excellence Chair in Environment and Natural Resources*. Dean Benson is a legal geographer and resilience scholar. This year, she co-organized with a symposium to honor retiring law professor Dale Goble, which will result in a special issue of their law review on Professor Goble's scholarship in wildlife law. Dean Benson presented a piece on the Endangered Species Act and will be publishing a piece in the special issue in the Idaho Law Review later this year. In addition, her recent piece "New Materialism: an Ontology for the Anthropocene," published in the interdisciplinary law journal the *Natural Resources Journal*, investigates anthropocentrism and human exceptionalism as core ontological assumptions responsible for the Anthropocene. Dean Benson also taught a Haub School Seminar on Nature in the Anthropocene at the graduate level. Finally, she published an essay in the Haub School's *Western Confluence Magazine* titled "Bye Bye Baseline, Goodbye: Rethinking our goals for ecosystem conservation." All of these endeavors enrich discussions on the future of environment and natural resources law and policy in Wyoming and the West.

Dr. Holly Ernest, (Doctor of Veterinary Medicine, Ohio State University; Ph.D. Ecology with focus in wildlife genetics, University of California, Davis) **Professor, Wyoming Excellence Chair in Disease Ecology**, Department of Veterinary Sciences, faculty member in the Program in Ecology, and Affiliate faculty member in the Haub School of Environment and Natural Resources. Professor Ernest's research, teaching, and service program involves the intersection of Wildlife Genomics and Disease Ecology. She leads a team of students, researcher-trainees, and research scientists to answer questions vital to conservation and management of wild ungulates (bighorn sheep, mule deer, elk, and pronghorn), carnivores (mountain lions, black bears, and otters), and birds (raptors and hummingbirds) in Wyoming, the Rocky Mountain West, and the Pacific coastal US. Her work also involves studying Chronic Wasting Disease in deer and elk and blood parasites in birds. During the past year, Dr. Ernest taught a course in Disease Ecology and seminars in Conservation Genomics and Ecology

and Genomics of Wildlife Disease. Her research team employs the latest genomic lab techniques, cloud computing, and bioinformatics (expert computer coding for analysis of large data sets) using UW's Teton supercomputing cluster. During this year, Dr. Ernest was selected for the prestigious Fulbright scholarship (<https://www.cies.org/>) for wildlife projects she plans for 2021. Dr. Ernest holds certification as Senior Ecologist by the Ecological Society of America (ESA), the highest certification offered by the ESA, and the first veterinarian at University of Wyoming to achieve this distinction. Dr. Ernest's team provided public service activities including Women in STEM, Biodiversity outreach, Science Kitchen (NASA). She collaborates with and advises more than 100 biologists and scientists from state, federal, and non-governmental institutions such as University of Nevada Reno, Colorado State University, University of California Davis, Wyoming Department of Game and Fish (WGFD), Wyoming Wild Sheep Foundation, Teton Raptor Center, The Wildlife Conservancy, National Park Service, US Geological Survey, US Fish and Wildlife Service, US Geological Survey, UC Santa Cruz, and US Department of Agriculture. As a federally appointed member on the Wildlife Forensic Science committee within the National Institute of Standards and Technology, Dr. Ernest helps develop standardized lab protocols for state and federal crime labs. Her lab was funded by the US Geological Survey / US Fish and Wildlife Service, Wyoming Governor's Big Game Grant (deer/CWD), Wyoming Wild Sheep Foundation, California Department of Fish and Wildlife (landscape-scale genetics and non-invasive methods for studying populations of mountain lions and black bears), student grants through Wyoming-NASA, Wyoming Research Scholars program, Barkhurst Fellowship, Riverbend Fund, and others. Twelve scientific papers have been published in the past year in journals of *Molecular Ecology*, *Journal of Mammalogy*, *Conservation Genetics* (x 2 papers), *Landscape Genetics*, *Ecological Applications*, *Journal of Wildlife Management* (x 2 papers), *Journal of Wildlife Diseases*, *Environmental Science and Pollution Research*, *California Fish and Game* (x 2 papers). Published topics included: "Pronghorn population genomics show connectivity in the core of their range" (Wyoming), "Population genomic diversity and structure at the discontinuous southern range of the Great Gray Owl in North America" (focus on Wyoming Teton owls), "Genetic source-sink dynamics among naturally structured and anthropogenically fragmented puma (mountain lion) populations", "Bighorn sheep genetic structure in Wyoming reflects geography and management", veterinary health parameters in wildlife, bobcat population structure, and more. Dr. Ernest's Wildlife Genomics and Disease Ecology Lab's active online presence educates the public with over 30 informational pages and links to publications, www.wildlifegenetichealth.org, and regular Twitter and Facebook postings about her science and team.

Dr. Mohammad Piri, (Ph.D. Imperial College London) *Wyoming Excellence Chair in Petroleum Engineering*
(See Privately Endowed Faculty Positions – Section C)

Wyoming Excellence Chair in Climate Modeling - Vacant

PROFESSIONS CRITICAL TO THE STATE

Temple Stoellinger, (University of Wyoming; J.D. with honors, University of Wyoming College of Law) *Law & Haub School*. Professor Stoellinger is an Assistant Professor in the Haub School of Environment and Natural Resources with a joint appointment at the College of Law where she is also the Co-Director of the Center for Law and Energy Resources in the Rockies. Professor Stoellinger also oversees the Haub School's JD/MA program, a joint master's degree offered in collaboration with the Law School and she is also a faculty fellow with the School of Energy Resources new Center for Energy Regulation and Policy Analysis. Professor Stoellinger's work and engagements continue to have a direct and impactful benefit to the State of Wyoming. During the fall 2019 semester she taught the following courses: Environment and Natural Resource Law and Policy (ENR 4750/5750), and Environment and Natural Resource Problem Solving (ENR 5000). During the spring 2020 semester she taught Wildlife Law for the first time, which was offered to graduate students and law students; as well as a seminar course for JD/MA students on interdisciplinary thesis writing. Professor Stoellinger's scholarship continues to focus on natural resource law and policy, with an emphasis on wildlife law and policy including the Endangered Species Act. Highlights of her scholarship this past year include the completion of an interdisciplinary law review article focusing the need for the integration of ecology and economics into big game migration policy, written in collaboration with two economists at the University of Wyoming (Dr. Jo Albers and Dr. Jason Shogren) as well as Dr. Arthur Middleton, a big game ecologist at the University of California at Berkley. Again, working with Dr. Middleton, Professor Stoellinger contributed to an interdisciplinary paper entitled *Harnessing Visitors' Enthusiasm for National Parks to Fund Cooperative Large-Landscape Conservation*, an article that explores opportunities to capture additional visitor revenue from Yellowstone and Grand Teton National Park visitors to fund conservation efforts in the area. She was also the lead author of a law review article entitled *Improving Cooperate State and Federal Species Conservation* that was the end product of a 2019 Haub School workshop on the Endangered Species Act (ESA) that Professor Stoellinger organized at the University of Wyoming in collaboration with Texas A&M University. The workshop featured key ESA experts from across the country, who were invited to discuss the state-federal relationships with regards to species conservation as well as opportunities for state to engage more meaningfully in species conservation efforts. This law review article features the agreements in principle reached by the workshop participants and through significant outreach efforts, it is hoped that this workshop and law review article help to positively influence the implementation of the ESA. As a spin-off from this effort, Professor Stoellinger is currently working on a project to examine the effectiveness of ESA section 4(d), a unique and flexible policy tool embedded within the ESA. Working with Rebecca Watson, the president of the Rocky Mountain Mineral Law Foundation, Professor Stoellinger completed an eBibliography on the National Environmental Policy Act, intended to be a helpful resource to attorneys and NEPA practitioners. As co-director of CLERR, Professor Stoellinger's main effort was the organization of the 2019 Landscape Discussion on Energy Law and Policy in the Rockies, which was attended by 200 participants and covered the following topics: The Energy Transition: The Disparate Roles, Impacts and Influences of Federal and State Law and Regulation, Hop Topics in Oil and Gas, and Legal Uncertainty in Coal Country. As a faculty fellow with SER's new Center for Energy Regulation and Policy Analysis, Professor Stoellinger is currently working on a law review article with other SER colleagues examining coal plant retirement polices in western states.

Dr. Christine M. Porter, (Ph.D. Community Nutrition, Cornell University) *Wyoming Excellence Chair in Community & Public Health*. Dr. Porter does participatory action research to foster nutritional health, develop strong community food systems, and end health disparities. This year she has also adopted a COVID focus, talking regularly with regional reporters and assisting the state via work with the Wyoming Technology Coronavirus Coalition (becoming Wyoming's representative in *InStyle* magazine's feature on "The Badass 50: Healthcare Workers Who Are Saving the Day"). She has been awarded the *Spirit of the Community Award* from UW's Native American and Indigenous Studies program and, for the second time, UW's *Diversity, Equity & Inclusion*

Fabulous Fieldwork Award. She has been part of garnering \$65,000 in funding for four new pilot projects. She is PI or co-investigator on another five grant proposals, for a total of \$2 million, that are currently in review. These pilot and proposed projects include supporting and assessing impacts of farmers' market coupons and free community-supported agriculture shares on food security of Wyoming families, developing digital storytelling approaches to sharing Native American health and food system expertise, supporting development of the new *Wyoming Food Coalition: WY Food Matters*, and collaborating with UW student leaders to end student food insecurity. She continues to lead the \$3 million, NIH R01-funded, *Growing Resilience* project, which studies health impacts of home gardens with Wind River Indian Reservation families. Porter has one publication so far in 2020 with another 8 in progress. She continues to teach food and public health courses, leads development of a new online graduate certificate in community and public health at UW, and is co-developing a national Native American food system graduate fellowship and mentorship program with 11 funded fellows in the coming year. This teaching work aims to help develop new and diverse health leaders in Wyoming and the Rocky Mountain West who can help ensure the wellbeing of our communities.

Danielle R. Cover, (J.D. *Cum Laude*, Tulane University School of Law) College of Law. Professor Cover is a Professor at the College of Law where she is the Director of the Civil Legal Services Clinic. During AY 19-20 Professor Cover taught the following courses: Civil Legal Services Clinic (Fall, Spring); Interviewing, Counseling, & Negotiation (Fall); and Judicial Remedies (Spring). As Director of the Civil Legal Services Clinic, Professor Cover has worked to expand the substantive case law offerings to low income residents of the State of Wyoming. The CLSC is a trusted and well-respected legal service provider in the state and has a close working relationship with Equal Justice Wyoming, the low-income legal services clearinghouse for the state and primary outside funder for legal services within the state. In addition, Judges in multiple counties contact the CLSC directly to provide representation in complex litigation involving some of Wyoming's most economically vulnerable clients. In February 2020, Professor Cover supervised 2 student attorneys in a 3-day jury trial, the first jury trial in the history of the entire College of Law clinical program. The CLSC represented approximately 70 people in the state over the academic year in a variety of legal matters from divorce and custody to special education and social security. The CLSC numbers continue to increase, even in light of the Covid-19 pandemic. Professor Cover's scholarship focuses on the intersections between psychology and legal practice, particularly around motivational theory, adult learning theory, and clinical pedagogy. During AY 19-20, she completed a lengthy article entitled *Brain-wise Lawyering for the Clinical Law Student* that was published in the Spring edition of the *Clinical Law Review*. *Brainwise Lawyering* explores the relationship between practiced self-awareness, clinical pedagogy, and neuropsychology in the quest to increase student empathy and dampen negative biases and stereotypes.

Professor Cover's work has a direct positive impact on the State of Wyoming. As one of the largest providers of pro bono legal assistance in the state, the Civil Legal Services Clinic works diligently to develop and direct the rich resources of Wyoming's College of Law toward promoting access to justice for low income individuals in the state. The Kaiser Family Foundation estimates that the percentage of Wyoming's population living at or below 200-299% of the federal poverty income guideline is 33%.¹ The clinical experience promotes a practical, holistic legal education to students, while re-affirming a strong commitment to public service through experiential learning. An additional benefit to the CLSC is increasing awareness among matriculating law students of the vast need for legal representation for people living in poverty. This in turn can influence the willingness of law students to incorporate pro bono or low bono legal assistance into their legal careers, regardless of their ultimate practice choices. When vulnerable populations receive direct legal representation and community education, many members of those populations can overcome severe barriers to maintaining financial stability. Students experience first-hand how economic independence and income stability improve not only the lives of their clients but the functioning of entire communities. In-person meetings with clients and relationships with local judicial bodies, together with community outreach and education that takes the students where the clients live, work, and build

their families, amplifies the benefits the CLSC program offers. Because most University of Wyoming College of Law students remain in Wyoming, many returning to the small towns from which they came, they can provide access to the legal system in ways they may not have anticipated.

Professor Cover received Endowment funding to conduct research in Scotland and Ireland on approaches to clinical pedagogy, specifically working with student lawyers to represent clients in rural communities impacted by Brexit. Because of the pandemic and its related travel restrictions, Professor Cover did not travel in June, 2020 as planned. She received an extension until December 2020 to spend the funding. It remains unclear whether she will be able to exhaust the funding as her proposal anticipates in the ongoing health crisis.

Wyoming Excellence Chair in Nursing - Vacant

OTHER ECONOMIC AND SOCIAL CHALLENGES

Dr. Steven Smutko, (Ph.D. Economics, Auburn University) *Wyoming Excellence Chair and Spicer Distinguished Chair in Environment and Natural Resources*. Dr. Smutko carries out a research, teaching and outreach program in policy development and public decision-making in natural resources management. Dr. Smutko's outreach work focuses on engaging with local governments, state and federal agencies, and the private and nonprofit sectors to enhance participatory decision-making on complex and often contentious environmental and natural resource policy issues. Following the Wyoming example, In FY 19-20 Dr. Smutko convened and led a series of wildlife migration workshops in Idaho, Nevada and Oregon to bring together biologists, highway engineers, landowners, hunters, and local government officials to open the dialogue around management and conservation of big game migration corridors and identify best practices for cooperation and collaboration. Dr. Smutko's research activities focus on understanding how and whether collaborative processes lead to better public policy decisions. This past year, Dr. Smutko continued his research on the suitability of collaborative decision processes in “social trap” situations with application to the elk feed-ground debate in Wyoming. He is also investigating how the process of wilderness designation in the United States has been changing and whether collaboration among conservationists, ranchers, motorized recreation groups, and hunters and anglers leads to successful federal land designations. He also completed a study on the origins of university programs in collaborative governance and how universities are adapting their outreach and engagement efforts to new approaches in community problem-solving. In 2019 Dr. Smutko chaired the Research and Scholarship Committee of the University Network for Collaborative Governance and led research workshops for the Network and a companion organization of practitioners in collaborative governance. In charting a new direction for his research, this spring Dr. Smutko hosted Harvard biologist and artist Dr. Sarah Kariko to present a series of workshops on art and science integration for students at UW and Harvard. These “Create Reflect Connect” workshops are an outgrowth of his collaboration with Dr. Kariko to investigate how the integration of science and the arts in deliberative processes can lead to new ways of thinking about public policy problems and force breakthrough solutions to contentious policy problems. In his teaching program, Dr. Smutko led the development of a new graduate minor this year in collaborative practice, and designed a new graduate course in principles and methods of collaborative practice. He continues to teach courses in negotiation, negotiation analysis, and decision analysis at UW. He also oversees the Collaboration Program in Natural Resources, a yearlong series of professional development workshops attended by natural resources professionals in the public, private and nonprofit sectors in Wyoming and adjacent states.

Dr. Heidi J. Albers, (Ph.D. in Economics. University of California at Berkeley) *Conservation Economics: Wyoming Excellence Chair*. In 2019-2020, Dr. Albers taught her core PhD course in Natural Resource Economics and her undergraduate course in “Environmental Economics” in the Department of Economics. She advised, or served on the committees for, 11 graduate students. She served as the Director of Graduate Studies in

Economics through which she advised undergraduates, MS, and PhD students on successful degree progress and job market outcomes. She also serves as a mentor to junior faculty on campus and worldwide. In that capacity, Albers continues to work with women in economics through the Environment for Development Initiative’s WinEED, CSWEP, and Wyoming Women in Economics. Dr. Albers maintains an internationally respected research agenda based around determining resource management strategies that integrate socio-economic, ecological, and institutional characteristics of the setting. In 2019-2020, Dr. Albers published 5 peer-reviewed or refereed articles covering topics including siting marine protected areas, disease risk from resource use extraction and consumption in low income countries, and big game migration conservation. She gave 6 research presentations, including 3 internationally. In addition, Dr. Albers ran a workshop at UW on the economics and policy of seasonal wildlife migrations with a wide range of ecologists, economists, policy scholars, and conservation practitioners that has led to research outputs and outreach/collaboration with non-academic stakeholders. Excellence funds enabled Albers to engage with research, policy and management issues surrounding seasonal wildlife migrations following that workshop, in addition to supporting graduate students on a wide range of activities. She continues to contribute to economics, policy, and interdisciplinary literatures through editorial roles at the *Environmental and Resource Economics*, *Ambio: A Journal of the Human Environment*, and *Conservation Biology*, and a new position at *Environment and Development Economics*. Her teaching benefits students by giving them strong decision analytic tools that empower students to make well-developed arguments for their positions, make students into better decision-makers and contributors to society, and prove important for employment success. Excellence funds enable Dr. Albers to conduct fieldwork that she then brings to the classroom as local and international case studies that cover a wide range of perspectives, tools, and issues, which further expands the UW students’ horizons. To further foster students’ educational growth, Dr. Albers used her Excellence funding to support 4 graduate students for various experiences including summer work, conference presentation experience, and fieldwork skills development, which provides students with important learning/networking, develops marketable skills, and deepens understanding of tools and issues. The funding enriches the students’ educational programs by enabling them to explore topics and develop skills differently than classroom work and by providing experience with analytical tools that employers value. Through these experiences, students become stronger contributors to Wyoming’s economy and resource management debates.

Wyoming Excellence in Higher Education Endowment Fiscal Summary

The costs associated with each position include salaries commensurate with the market for top academics, employer paid benefits, ongoing budgets to support research and instructional activities, as well as one-time start-up expenses which are especially critical to recruiting distinguished scholars with large established laboratory research programs.

The balance in the Excellence in Higher Education Endowment expenditure account held at the university as of June 30, 2018 was \$4.08 million. Total expenditures for the 2019 fiscal year were currently budgeted at \$2.93 million. The planning budget was designed to maintain an adequate cash balance to cover on-going expenses for an acceptable period, in the event of diminished revenue.

The following table summarizes the uses and expenditures of the budgets for filled positions, and the total estimated initial cost of the program when all allocated positions are filled. Not shown are projected costs as the program continues.

Balance July 1, 2019	\$4,923,071.52
Advertising and Professional Development	\$14,761.42
Graduate Assistant Financial Aid	\$33,451.32

Salaries and Benefits	\$2,285,729.00
Support	\$113,914.14
Equipment/facilities	\$6,860.91
Total Expenses	\$2,454,716.79*
Income (distribution from state and interest)	\$3,656,039.50*
Balance June 30, 2020	\$6,124,394.23*

*Due to UW Year-End processes, full accounting for FY2020 is not complete.

Planning for FY2021

Planning for the FY2021 budget is based on anticipated annual projected income as per State Spending Policy for FY20 (WS 9-4-719). The table below includes the estimated annual budget for 22 partially or permanently funded positions.

<i>Estimated FY21 Spending Policy Amount for UW*</i>	\$3,800,000
Income FY20 90% per W.S. 21-16-1201(c)	\$3,420,000
Use of FY21 Beginning Balance	\$2,498,443
Reserve for Salaries and Benefits of Chairs	\$1,500,000
Salaries and Benefits (for Chairs and GAs)	\$3,018,443
Support for Chairs	\$ 900,000
AA Support Programs	\$ 500,000
Total Expenses	\$5,918,443

* The FY 2021 Spending Policy Amount was not available prior to the due date of this report; therefore, an estimated based on the FY 2020 Spending Policy Amount was used.

Part B. Legislatively identified faculty positions

1. School of Energy Resources (SER) faculty

The Wyoming Legislature established and appropriated initial funding for the School of Energy Resources (SER) in 2006. The plan for SER stipulated the hiring of up to 12 distinguished faculty who were to be co-appointed in departments across campus. Professors in the SER are internationally recognized energy experts who are actively involved in both energy research and teaching. They work in a variety of disciplines and have formed productive collaborations across campus. The current SER professors include:

Dr. Timothy Considine, (Ph.D., Cornell University) *SER Professor of Economics and Finance*. During academic year 2019-2020, Dr. Considine taught undergraduate courses in Oil: History, Culture, and Power, Energy Economics and Public Policy, and intermediate econometric theory. He and his colleagues in the School of Energy Resources were invited to renew their research grant from the Charles Koch Foundation to conduct studies and hold a virtual symposium on energy regulatory law and economics. Considine was also invited to prepare a research proposal on the economic impacts of leasing moratoriums and drilling bans on federal lands, which has been approved by the Wyoming Energy Authority. Support from other western state energy offices is also possible. The project will be underway once contract details are finalized. Considine also forged a new partnership with the Western & Rural Local Governments Coalition to examine the economics of oil and gas

regulation. Finally, Dr. Considine continues his collaboration with Dr. Manderson at the University of Manchester developing empirical models to estimate how oil and gas prices are affected by America's fracking industry.

Dr. Considine's research is recognized by business and policy leaders in Wyoming and around the world. His research has been supported by several organizations including Peabody Energy, Cloud Peak Energy, the American Petroleum Institute, The Manhattan Institute, The Strata Institute, and the Charles Koch Foundation. His studies on the importance of Powder River Basin coal to the US economy and the economics and environmental dimensions of fracking have attracted considerable attention around the country. Since 2008, nearly 850 students, many of whom are STEM students, have taken his oil class in which he provides an historical perspective on the challenges facing the oil and gas industry. Dr. Considine's research applies state of the art economic and industry analysis to address major policy issues directly affecting Wyoming's coal, natural gas, and petroleum industries, providing business and policy leaders with the arguments and data to effectively engage in national energy and environmental debates whose outcomes directly affect the citizens of Wyoming.

Dr. Craig Douglas, (Ph.D. Yale University) *SER Professor of Mathematics*. **Dr. Craig Douglas, SER Professor of Mathematics** (Ph.D. Yale University). Dr. Douglas is an internationally recognized expert in computational sciences who leads a research group that creates sophisticated mathematical models of physical phenomena using networks of remote sensors and high-performance parallel computers. He has a long-term collaboration with AirLoom, LLC, a renewable energy company located in Laramie. Two of his current or former Ph.D. students have worked there, including one full time. He has published a research paper recently with AirLoom staff on optimization techniques relevant to wind energy design development. Dr. Douglas also has a project on dual porosity models relevant to both the fracking industry and aquifer modeling. An open source two- and three-dimensional high-performance code has been released that runs efficiently on one to thousands of processors. A recent project involves the Wyoming Department of Transportation to create a machine learning model for predicting when Interstate 80 should be closed and re-opened. It currently works well with historical data. We are working to create a better model using a live data stream.

Federal dollars are spent in state and the results enhance UW's reputation through high visibility internationally. One of his projects has created the first 100 Gigabit/second computer network in Wyoming, which enhances Wyoming's ability to attract large data centers to the state. He has taught a first-year seminar course on Energy, the Environment, and Economics, that covers all aspects and forms of energy from the viewpoints of Wyoming and globally.

Dr. Subhashis Mallick, (Ph.D. University of Hawaii) *SER Professor of Geology and Geophysics*. Dr. Mallick and his team is continuing research on developing waveform inversion, modeling, and imaging algorithms using classical optimization techniques and recent advances of artificial intelligence. Using the high-performance computing facility, both at the University of Wyoming's advanced research computing center (ARCC) and the NWS supercomputing facility, his team collaborates with Dr. Dario Grana, SER Associate Professor of Geology and Geophysics and Dr. Vladimir Alvarado, Professor and Head of the Chemical Engineering. In addition, Dr. Mallick has initiated a new research collaboration with Drs. Manika Prasad and Ilya Tsvankin of Colorado School of Mines. He also continues his collaboration and with the Daqing Oilfield Company (DOC, a division of Petro China), Daqing, China for research on the use of seismic waveform inversion methods to solve some outstanding exploration challenges, which may lead to a long-term research collaboration with SER and University of Wyoming. In 2019-2020, Dr. Mallick and his team published two papers in peer-reviewed journals, presented three expanded abstracts in international conferences, and submitted two papers for publication. Dr. Mallick also submitted one research proposal for funding to the National Science Foundation. In collaboration with Drs. Grana and Alvarado, he is also working on developing another research proposal for submission to the US Department of Energy (DOE). In Spring 2020, Dr. Mallick taught two sections of the Petroleum Geology course to the senior undergraduate students majoring in Geology and Petroleum Engineering. In addition, Dr. Mallick was also involved in advising two graduate students as their primary research advisor. Dr. Mallick and his students will continue their research on waveform inversion, imaging, and artificial intelligence. The courses taught by Dr. Mallick benefit the students as they work as professionals in the oil and gas industry. All students graduated with advanced (Masters and Ph.D.) degrees with Dr. Mallick as their primary advisor are well-respected industry professionals, which indirectly benefits the state by establishing the University of Wyoming as a reputed school of higher learning. Finally, Dr. Mallick has been chosen to write a textbook on seismic modeling and inversion, which will be published by Springer and as an American Geophysical Union (AGU) textbook series.

Dr. Bruce Parkinson, (Ph.D. California Institute of Technology) *SER Professor of Chemistry and Warren Chair of Energy and Environment*. Dr. Parkinson is an internationally renowned scientist who leads a research group that investigates novel methods to harness solar energy and developing new materials for electrochemical and environmental applications. Dr. Parkinson's research in several areas has been well funded, with a total in the last fiscal year of about \$400k. He is working on fundamental aspects of storing solar energy in chemical bonds such as producing hydrogen from sunlight and water and charging redox flow batteries directly with sunlight. He also has a DOE grant for investigating fundamental processes that could dramatically increase the efficiency of photovoltaic solar cells. He still collaborates with Dr. Carrick Eggleston former professor in geology at UW, but now at the Worcester Polytechnic Institute, in investigating photoelectrochemical processes on the surface Mars with a grant from NASA. The resulting publications have enhanced UW's reputation for research and innovation with research that has upended previous models. In addition, he is co-inventor on a composition of matter patent and many application patents with Professor John Hoberg in a new area where they synthesize two dimensional nanoporous polymers with unique properties useful for membrane separations that have many different commercial applications that could result in significant licensing revenue for UW. A substantial Department of Energy grant was recently obtained for this project with Hoberg and Katie Li from Chemical Engineering. Every year he teaches the introductory course for the Energy Resource and Management and Development majors called Energy and Society. This class uses many class participation activities to present the many sides of energy related issues. Students get exposure to a top-level researcher in the classroom with many years of experience in energy related issues and where they are encouraged to discuss current energy related topics. He also has taught a graduate level courses on solar energy. The main expenditures from the research grants are to pay graduate students and post-doctoral researchers with the result that federal dollars are being spent in Wyoming for food, lodging and at local businesses. The reputation of UW is enhanced by the high visibility of the research activities due his over 250 publications in high impact journals. He also was the recipient of the University of Wyoming's Presidential Research Award for 2019. He was also recently notified that he will receive the David C. Graham Award of the Physical and Analytic Division of the Electrochemical Society.

Dr. Maohong Fan, (Ph.D. Iowa State University; Ph.D. Osaka University), *SER Professor of Chemical and Petroleum Engineering*. As a PI and Co-PI, Dr. Fan led various research projects including those funded by NSF and DOE in the areas of advanced material development, energy production, and environmental protection. He has supervised many graduate students, postdocs, and research scientists. His last year's publications are in the areas of clean energy production and environmental protection. Web of Science (the leading scientific data base) acknowledged that Dr. Fan was a highly cited researcher (A Highly Cited Researcher) in 2018 and 2019 in the world. The website says that "This list recognizes world-class researchers selected for their exceptional research performance, demonstrated by production of multiple highly cited papers that rank in the top 1% by citations for field and year in Web of Science." Also, he was the winner of "Top 50 Nature Communications chemistry and materials science articles" in 2019. Dr. Fan not only instructed graduate students but also undergraduate students for conducting scientific research. A number of the undergraduate students took undergraduate research courses with Dr. Fan. The disseminated knowledge from Dr. Fan's research or instruction considerably helped students' employment and career development opportunities. The technologies developed by Dr. Fan could help businesses and industries improve their market development opportunities, and thus could create great employment opportunities for Wyoming's residents.

Dr. John Kaszuba, (Ph.D. Colorado School of Mines), *SER Associate Professor of Geology and Geophysics*. Professor Kaszuba has over 25 years of experience researching geochemical interactions between fluids and rocks. His research group of five graduate students, two undergraduate students, and one postdoctoral research scientist presently focus on unconventional oil and gas reservoirs, carbon storage, and rare earth elements in Wyoming. His research is funded by several extramural resources, including an Energy Frontiers research center

funded by DOE and a Joint Industry Project with ConocoPhillips Company. He teaches courses in the Department of Geology and Geophysics. He serves on numerous committees, including graduate student committees as well as SER and University committees, and is a member of the Wyoming State Geological Survey Advisory Board.

Dr. Mohammad Piri, (Ph.D. Imperial College London) *Thomas and Shelley Botts Endowed Chair in Unconventional Reservoirs in the College of Engineering and Applied Sciences* (See Privately Endowed Faculty Positions – Section C)

Dr. Po Chen, (Ph.D. University of Southern California) *SER Associate Professor of Geology and Geophysics*. The study of induced seismicity is playing an increasingly important role in both Enhanced Oil Recovery and Carbon Sequestration applications. Unlike earthquakes caused by tectonic activities, the earthquakes triggered by fluid injection activities are usually small and spatially diffusive. The rapid detection and accurate location of the induced earthquakes provides not only insights about the state of the stress field in the subsurface and also potential guidance for adjusting injection strategies. By working with his collaborators at the National Center for Supercomputing Applications in Illinois and the National Cheng Kung University in Taiwan, Dr. Chen and his graduate student Mr. Wei Wang published two articles on rapid detection and location of small earthquakes in peer-reviewed journals in the past fiscal year. Mr. Wei Wang successfully defended his PhD thesis and is now working as a postdoctoral research associate at Pennsylvania State University. In the past fiscal year, Dr. Chen taught 4 courses: “Methods in Petroleum Geology” (Spring & Fall), “Introduction to Machine Learning for Scientists and Engineers” (Spring), “Introduction to Wind Energy” (Fall).

Dr. Dario Grana, (M.S. and Ph.D., Geophysics, Stanford University), *SER Associate Professor of Geology and Geophysics*. Dr. Grana’s research focuses on petrophysical modeling and characterization of subsurface reservoirs of energy resources using geophysical methods, such as seismic and electromagnetic data, for the estimation of subsurface rock and fluid properties. This research also includes geophysical monitoring of the reservoirs using repeated seismic surveys and model updating using real-time borehole measurement data to reduce the uncertainty in model predictions. They are applied to CO₂ sequestration studies to predict the CO₂ behavior in the subsurface and to reduce the probability of leakage. Dr. Grana’s research has been applied in several case studies all over the world, including a CO₂ sequestration project in Southwest Wyoming. A more accurate reservoir characterization study allows reducing the uncertainty in the model predictions and consequently the operation risks. The recent research conducted by Dr. Grana and the application to CO₂ sequestration provided a valuable contribution in the development of strategies for carbon dioxide reduction. Dr. Grana published 12 peer reviewed papers in 2019 and 9 in the first semester of 2020. Dr. Grana currently teaches four classes at the University of Wyoming: an undergraduate level class on the basic concepts of exploration and production, two undergraduate classes mathematical methods for geoscience, and a graduate level class in diversity and inclusion in geosciences. Dr. Grana’s classes at the University of Wyoming contribute to the formation of the new generation of scientists, including geologists and petroleum engineers who aim to work in the energy sector.

Tara Righetti, (J.D., University of Colorado Boulder) *SER Associate Professor of Law*. Tara Righetti teaches in the College of Law, the Energy MBA program, and the School of Energy Resources. She also served as Director of SER's academic program in Professional Land Management. During the 2019-2020 academic year, Professor Righetti taught Oil and Gas Law, two sections of Advanced Oil and Gas Law, and the Landman Capstone Seminar. One highlight of her teaching was to work with a group of students on a project for the University of Wyoming Foundation. Professor Righetti published work in Energy Research and Social Science, the Ohio State Law Review Online, the Yale Law Journal Forum, and in the special institute proceedings for Oil & Gas Mineral Title Examination with the Rocky Mountain Mineral Law Foundation. She also collaborated with Professor

Scasta on a bulletin for the UW Extension office and the Wyoming Prescribed Fire Council. In addition to these publications, Professor Righetti served as the PI on two separate grants and as a senior researcher on UW's Carbon Safe and EPSCoR teams. Professor Righetti gave numerous public presentations accessible to UW students, energy professionals, and the public, including: moderating a panel for the CLERR Landscape Discussion on Energy Law and Policy, giving the lunchtime keynote at the Annual Meeting of the Rocky Mountain Section of the American Association of Professional Geologists and the Wyoming Association of Professional Landman Annual Education Seminar. She served on the organizing committees for the Advanced Landman's Institute in Houston, Texas and as the Landman Section Chair for the Rocky Mountain Mineral Law Foundation Annual Institute in Monterey, California. Professor Righetti serves the landman and legal professions by producing innovative research on emerging issues in oil and gas law and high-quality continuing education materials.

Part C. Privately Endowed Faculty Positions

Forty-six¹ UW faculty positions are partially or fully supported by privately funded endowments established with gifts to the UW Foundation. A \$3 million or more endowment supports a faculty chair, which may be designated to cover all or part of the base salary of the faculty member. A \$2 million gift endows a professorship, which may be used to provide an annual salary supplement or to support teaching, research, or scholarship expenses. And a \$1 million gift endows a faculty fellowship, which supports faculty development in teaching or research. Of the 46 endowments, 22 support faculty chairs (most are partially funded from their respective endowments), 24 support faculty professorships and/or programs. A complete list of the privately endowed chairs, professorships, and faculty fellowships is available from the UW Foundation. That list describes the history of the endowment, the qualifications or purpose, the uses, and the current and past faculty recipients. Some of these endowed positions are not filled at the present time; others fund various faculty from year-to-year.

In all cases, the specific uses of the endowment earnings are specified in the gift agreements and are reflected in the focus of the teaching, research, and extension/outreach programs of the faculty member beneficiaries.

As discussed in Part A of this report, the funding for some privately endowed positions is bolstered by earnings from the state-funded Excellence in Higher Education Endowment. These public-private partnerships include:

The *Roy & Caryl Cline Endowed Chair in Engineering, Environment, and Natural Resources*, currently vacant (College of Engineering and Applied Science).

The *Eldon & Beverly Spicer Chair in Environment and Natural Resources*, held by Professor Steve Smutko (Haub School and College of Agriculture).

The *Clara Raab Toppan Distinguished Professorship in Accounting*, held by Professor Eric Johnson (College of Business).

The individuals who currently hold endowed faculty positions are as follows:

College of Agriculture and Natural Resources

E.A. Whitney Professorship in Agriculture - Vacant

Curtis and Marian Rochelle Endowed Chair in Animal Science – Vacant

Riverbend Ranch Endowed Chair in Wildlife-Livestock Health – Vacant

Farm Credit Services of America Ranch Management and Agricultural Leadership Chair – Vacant

American Heritage Center

Clara R. Toppan Curator of the Toppan Rare Books Library – Vacant

College of Arts and Sciences

¹ One endowment supports academic centers or institutes: the Solomon D. Trujillo Center for e.Business.

Jerod Merkle, (Ph.D., Université Laval, M.S., University of Montana), the *Knobloch Professorship in Migration, Ecology and Conservation*, Department of Zoology and Physiology. Dr. Merkle's research aims to uncover the ecological intricacies of how animals move across large landscapes, and how to conserve them. Dr. Merkle leads a wide range of projects including how extreme heat affects the movements of large mammals, how energy development and roads affect migrating big game, and how migrating big game use memory and social dynamics to navigate across large landscapes. Over the past year, Dr. Merkle has authored or co-authored 12 peer-reviewed publications in journals including Proceedings of the National Academy of Science, Ecology Letters, and Journal of Wildlife Management. Dr. Merkle raised over \$300,000 in grant funding as principle investigator. Dr. Merkle, in collaboration with the Wyoming Migration Initiative and the Wyoming Cooperative Fish and Wildlife Research Unit, has played a crucial role in leading a migration mapping effort across the western United States, which includes writing and compiling all of the computer code for the effort, co-authoring open-source migration mapping software, and co-developing online migration viewing platforms for the public and for conservation organizations. Dr. Merkle taught one graduate level course (Introduction to the data management and statistics software R) and one undergraduate course (Applied Geographical Information Systems for Wildlife and Fisheries majors) over the last year.

Craig Benkman, *Wolf Creek/Bob and Carol Berry Chair*, (Ph.D. Biology, State University of New York at Albany, 1985). Dr. Benkman has spent much of his career studying a group of finches called crossbills and the conifers on which they feed to elucidate general principles of ecology and evolution. The highlight for Benkman during the past fiscal year was receiving the William Brewster Memorial Award from the American Ornithological Society, the largest ornithological society in the world. This award is given "to the author or co-authors of the most meritorious body of work (book, monograph, or series of related papers) on birds of the Western Hemisphere published during the past ten years." Benkman also gave the Ramon Margalef Lecture (named for a distinguished Spanish ecologist) at the University of Missouri, St. Louis, and a lecture on "Evolution on sky islands in the west" for the Tate Geological Museum lecture series, Casper College. Because some of his research is highlighted in widely used college textbooks in ecology (Cain et al. 2013, Ecology, Sinauer Associates) and evolution (e.g., Zimmer and Emlen, 2015, Evolution: Making sense of life, W. H. Freeman), his research reaches college students across the country and beyond. Perhaps the most important benefit from his research is its illustration of the importance of considering evolution in understanding the ecology of populations and communities, especially in the Rocky Mountain region, and thereby enriches the experiences of residents and those visiting our region. During the past fiscal year, along with his graduate students, Dr. Benkman has been conducting field research in the Rocky Mountain region. One Ph.D. student (from Michigan) is examining, mostly within Wyoming, the conditions that facilitate and inhibit the origination of new bird species. One of his M.S. students (from Ohio) plans to defend her thesis this fall on the evolutionary interactions between red squirrels and lodgepole pine in the Medicine Bow Mountains. A second M.S. student (from Florida) started in fall 2019. Benkman and his students published four articles during the past fiscal year. Students take his Herpetology course as an upper division elective, and those taking it are predominately in wildlife management, interested in working with animals especially in zoos, or have a passion for reptiles and amphibians. Dr. Benkman usually has 30-40 students in the course, and many are Wyoming residents. Dr. Benkman also co-taught a course for 14 students on Darwin and the Galápagos during late May and June that included a 12-day excursion to the cloud forests in Ecuador and to the Galápagos. Finally, he also provides help and consultation to Robert Berry from Sheridan on his studies of a falcon in Central America, and serves on a related board of directors for a new foundation devoted to the management and conservation of lands near Sheridan and in Belize.

Dr. James Arvanitakis (PhD, 2006, History and Philosophy and Environmental Studies, University of New South Wales, Australia) *Milward L. Simpson Fulbright Visiting Professor*. In partnership with Fulbright-Australia, in AY19-20, UW welcomed the first Milward L. Simpson Fulbright Visiting Professor, Dr. James

Arvanitakis. Arvanitakis is the Dean of the Graduate Research School at Western Sydney University where he is also a lecturer in the Humanities and a member of the University's Institute for Cultural and Society. His research areas include citizenship, resilience, piracy and the future of universities. James was a former banker and advocate for free trade, but having witnessed child and indentured labor, has worked to develop sustainable, socially just and equitable economic policies, working as a human rights activist throughout the Pacific, Indonesia and Europe. He worked for a number of environmental-rights organizations including Oxfam Hong Kong and was the Director of Aid/Watch. While at UW, Arvanitakis taught two classes, Space and International Relations and a seminar on Global Citizenship. He gave about a dozen guest lectures at UW and another dozen around the state, including in Casper, Sheridan and a virtual "Think & Drink" with the Wyoming Institute for Humanities Research (WIHR). In addition, he gave interviews to the Sheridan Press, Newsbreak, and the Branding Iron. He also gave several remote interviews for ABC news in Australia regarding US politics and his life in Wyoming. His collaboration and connection to UW continues in his work with Dr. Jason McConnell on American politics.

Dr. Daniel A. Dale, (Ph.D., Cornell University), Professor of Physics & Astronomy and Associate Dean for Arts & Sciences, *Harry C. Vaughan Professor in Astronomy*. Professor Dale taught introductory calculus-based physics for engineering and science majors in the 2019-2020 academic year. He always considers teaching our smart UW students to be the highlight of his year, and this past school year was no different. His research focuses on star-forming galaxies. He gathers astronomical data—images and spectra—from the *Wyoming Infrared Observatory* and the *Hubble Space Telescope*, among other astronomical observatories, to understand how galaxies convert gas clouds into stars and how the life cycles of those stars impact the formation of the next generation of stars. He published a total of 18 refereed publications in the 2019 calendar year and oversaw multiple federal grants that funded his research group of two Ph.D. students and 10 undergraduate students. A critical aspect to Professor Dale's work is the career preparation student interns receive as they carry out research in his group. Students learn marketable skills in computer programming ("coding" in today's vernacular), public speaking, and technical writing in addition to gaining teamwork and leadership experience in his team-based work. Professor Dale also served as the director of the *UW Harry C. Vaughan Planetarium*, and as head coach of the UW Women's hockey team for the 11th consecutive year. For the latter role he was honored with the *Outstanding Contribution to Campus Recreation* award. He is looking forward to serving as A&S Interim Dean beginning in July 2020, as well as directing a residential STEM camp for middle school children on the UW campus in July 2021.

Clarence Seibold Professorship – Provides program support in the Social Sciences, Humanities, and Fine Arts

L. Floyd Clarke Professorship in Zoology and Physiology – Provides support for annual lecture series, scholarships to support research in Greater Yellowstone area.

Hank Gardner and Marilyn Fiske Professor in Physiology – Vacant

Robert H.N. Ho Family Foundation Professorship in Buddhist Studies -- Vacant

College of Business

Kent R. Noble, (B.S., University of Wyoming), Department of Management and Marketing, *Bill Daniels Chair of Business Ethics*. The [Daniels Fund Ethics Initiative](#) is making an impact on current and future business leaders in Wyoming and beyond. To that end, in an anonymous survey of spring 2020 Business Ethics students, 95% agreed with the following three statements, “This course is valuable to me.” “I am learning a great deal in this course.” “This course is increasing my competence in this area.” Additionally, in AY 2019-20, 224 UW students distinguished themselves by completing an [Ethical Leadership Certification Program](#) through the [NASBA Center for the Public Trust](#). Fall 2019, five UW business ethics students also participated in the 35th Annual National Conference on Ethics in America held at the United States Military Academy in West Point, NY. Also, in the fall of 2019, UW’s Ethics Club raised \$45,000 for a special community project. Spring 2020, chapter members evaluated select nonprofit organizations in Wyoming to determine where to invest the funds. In the end, Laramie Safe Project and Downtown Clinic each received \$15,000, Feeding Laramie Valley was awarded \$10,000, and Big Brothers Big Sisters received \$5,000. In the fall of 2019, Kent received two *Top Prof* recognitions from UW’s Mortar Board Honor Society. Kent currently serves on the board of directors of the John P. Ellbogen Foundation and the Better Business Bureau Foundation Board of Advisors for Northern Colorado and Wyoming. In AY 2019-20, Kent used two primary outreach vehicles to conduct presentations for business, education, and community leaders. The first, *What Do You Stand For?*, is spotlighted in this three-minute [promotional video](#). The other primary offering is *What’s Your Brand?*, a personal branding presentation that focuses on integrity, attitude, and grit. An abbreviated version of the *What’s Your Brand?* talk is featured in this 13-minute [TEDx presentation](#). Finally, Kent recently launched two statewide recognitions honoring individuals who embody the [Daniels Fund Ethics Initiative Principles](#). The 2020 recipient of the Bill Daniels Ethical Leadership Award will be announced in November during the Governor’s Business Forum. The other award is the Wyoming Athletics Department Ethical Leadership Award. The most recent recipient was former Wyoming women’s basketball coach Joe Legerski. Each year, the honor recognizes a University of Wyoming team, coach, player, donor, administrator, and/or volunteer who embodies the Daniels Fund Ethics Initiative Principles on the field, in the classroom, and/or in the community.

Mark Leach, (Ph.D., Georgia State University) *Mendicino Chair in Sales and Salesmanship*. Dr. Leach’s research is in business-to-business marketing and sales. More specifically, his research typically focuses on understanding buyer and seller relationships, leveraging the sales function to manage relationships with profitable customers, and providing effective sales training. Mark has published articles in the *Journal of Business Research*, *Journal of Personal Selling & Sales Management*, *Industrial Marketing Management*, *Journal of Applied Social Psychology*, and other leading academic journals. Mark is a member of the editorial review board of the *Journal of Marketing Theory and Practice*, the *Journal of Business and Industrial Marketing*, and the *Journal of Business-to-Business Marketing*. Prior to joining the University of Wyoming in 2017, Dr. Leach was a member of the faculty at Loyola Marymount University and Purdue University. He has also been a behavioral research scientist at the Centers for Disease Control and Prevention. During the 2019-2020 academic year, Dr. Leach has worked to establish UW’s new major and minor in Professional Selling. Furthermore, he has continued to develop and refine curriculum for these new programs. Dr. Leach has continued to develop and expand the UW Center for Professional Selling and in early 2020 he hired its new Director. Furthermore, he facilitated the hiring of a new Assistant Professor in sales who joins UW in fall of 2020 to assist in the delivery of classes and establishing of the Center as a hub for sales thought-leadership.

Jason Shogren, (Ph.D., University of Wyoming), Department of Economics, *Stroock Chair of Natural Resource*

Conservation and Management. Returning to his alma mater, Dr. Shogren has been the Stroock Chair of Natural Resource Conservation and Management since 1995. From 2010-13 & 2018-19, he was the Department Chair. He was on the committee to hire a new Bugas Chair, Dr. Todd Cherry. Shogren taught a course on The Evolution of Economic ideas for the undergraduate students—Economics capstone course, and Global Economic Issues. He chaired or co-chaired the Ph.D. committees for several PhD students. He also talks a lot with recent graduates to help them with their research program. He is also on the committees of several Ph.D. and MS candidates. Dr. Shogren also talked with numerous media outlets about economics throughout the year.

Shogren published numerous peer-reviewed papers in top general and field journals. He is currently working on the 3rd edition of his graduate textbook *Environmental Economics: Theory and Practice*, for publication in late 2019/early 2020 (Macmillan). He also had 15 journal publications: 4 in the fall of 2019 and 11 in the spring of 2020.

Shogren is on the editorial board of two international journals, he is a foreign member of the Royal Swedish Academy of Sciences, he is a fellow of the Association of Environmental and Resource Economics, the Association of Applied and Agricultural Economics, he is a fellow of the Beijer Institute of Ecological Economics, the Ecological Society of America, US Steering Committee for Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES), and he is serving on board for the Laramie Plains Civic Center and was appointed to the Wyoming Arts Council by Governor Mark Gordon. The Swedish University of Agriculture Sciences (SLU) awarded Shogren with an Honorary Doctorate in October 2019, his second such honorary degree.

Endowed chairs benefit people locally and globally in three general ways: (1) These chairs help UW to attract world-class economists. Back in the mid-1970s, the UW President asked economics to focus on building a world-class program in Environmental & Natural Resource Economics (ENR Econ), with the goal to help make better policy in Wyoming and beyond. The Stroock Chair has provided a platform to attract excellent faculty that do research and teaching to understand better how to make good economic/environmental and resource policy better, and prevent bad policy from getting worse. The Department works with undergraduate and graduate students, policymakers, and the public understand the power and limits of economics for policy analysis. This specific focus has allowed the Stroock Chair to provide effective and timely policy advice. (2) These professorships help UW provide strength in scholarship even though we are small in size. The Stroock Chair provides a platform into a specific focus—ENR economics and applied microeconomics with the idea that we can specialize to excel in a few specific areas. We continue to follow this strategy today in research, teaching, and outreach. (3) These professorships/chairs allow UW to find students who are “diamonds in the rough”—extremely talented students who blossom under the guidance of UW economics department. The specific focus on ENR economics has attracted high quality students over the years. Our ENR alumni now work to keep the cycle going—UW produces good students, who become business leaders, academics, and policy makers who continue to send us their top students. The main contribution of the Stroock chair has been through the students. Dr. Shogren enjoys working with graduate students on their ideas and helping them find their own voice. Other contributions include working with government agencies at the State, Federal, and International level; working with scholars from other disciplines (e.g., ecology, biology, psychology) to understand better how they approach a problem.

Charles Mason, (Ph.D., University of California, Berkeley) Department of Economics and Finance, *H.A. (Dave) True Jr. Chair in Petroleum and Natural Gas Economics*. During the past fiscal year, Dr. Mason taught two classes (Economics of Oil and Gas, ECON 4430; International Business, INBU 4910), the second of which was a study abroad course held in Buenos Aires Argentina during J-term 2020. He also directed or co-directed a number of doctoral students, some of whom have now completed their doctoral work. He had two papers accepted or published, and gave presentations at several national or international academic conferences (prior to the

COVID-related travel lockdown). He also has several projects underway, many of which directly relate to oil or natural gas markets. Students in his undergraduate class gained new insights into the way key energy markets work; this information is beneficial in numerous ways, from enhancing the students' appreciation of energy markets, to providing key institutional knowledge that can help land a first job out of college. The material he discusses in that class is also amenable to public presentations, which provides visibility for the University and helps lay people better understand these markets. His research program is largely centered on studying oil and gas markets, including studies of oil and gas prices, motives to hold oil inventories, and the incentives for deployment of infrastructure, such as pipelines, and the implications of constrained infrastructure upon energy markets. These topics have clear relevance to the energy sector of the state, and policy relevance to the nation. Dr. Mason's research agenda also provides valuable input that allows regular updating of the oil and gas class, enhancing the educational value and relevance of the class.

Ali Nejadmalayeri, (Ph.D., University of Arizona), *John A. Guthrie Endowed Chair of Banking and Financial Services*, Department of Accounting and Finance. Since joining UW in August 2018, Dr. Nejadmalayeri has taught four classes (Bank Management, FIN 4510; Bank Policy, FIN 4540; Fixed Income Securities 4530; Secular Stock Cycles BUSN 5959). His broad research agenda concerns the intersection of corporate finance and capital market. His recent publications and work-in-progresses involve the study of information flow on corporate and municipal bonds. In a number of on-going projects, Dr. Nejadmalayeri and his coauthors investigate the impact of corporate and municipal bond ownership on the cost of borrowing, debt security design, as well as market structure. His recent research focus on the large bond investors reaction to the rise of ESG/CSR investment ideals and the role of institutional lenders on corporate bond covenants. Dr. Nejadmalayeri teaches the full sequence of courses necessary for the Banking Minor in Finance. In his bank management course, he delves into the inner-workings of banks while overviewing a long history of banking as told by Niall Ferguson's best-selling book, "The Ascent of Money". In his bank policy course, he prepares students for Credit Essentials Certificate through rigorous real-world case analysis and live presentations to Wyoming's own renowned commercial banking dignitaries. Students additionally revel in the glorious story of the famed Morgan Dynasty vis-à-vis American banking history through the lens of Ron Chernow's best seller, "The House of Morgan". His fixed income securities course follows the CFA[®] curriculum and offers students a tour de force of bond markets. His Secular Stock Cycles is a *tour de force* of the conceptual foundations of secular stock market cycles. The course starts with pioneering business cycle theory of Schumpeter and examines the enduring impacts of demography and technology in the last 200 years of U.S. stock market cycles. Dr. Nejdmalayeri's research in bonds intimately compliments his teaching in banking and fixed income securities.

Patrick M. Kreiser, (Ph.D., University of Alabama), *Rile Endowed Chair of Entrepreneurship and Leadership*. During the 2019-2020 academic year, Dr. Kreiser served as the Chair of the cross-campus Entrepreneurship Education Task Force; chaired the cross-campus Entrepreneurship Curriculum Task Force, which resulted in the creation of a revised cross-campus Entrepreneurship Minor and a new COB Entrepreneurship Major, chaired or co-chaired three different search committees (Department Chair/Scarlett Chair, Strategy/ENTR position, and 50K Staff position); served in a leadership role representing Entrepreneurship within the College of Business, across the University of Wyoming, and throughout the state of Wyoming; served on the Editorial Review Board for Journal of Business Venturing and Entrepreneurship Theory and Practice (recognized as the top 2 journals in Entrepreneurship); served as the lead faculty organizer for the Ellbogen 50K Entrepreneurship Competition; taught ENTR 4700 (Business Model Creation and Launch) designed specifically around the Ellbogen 50K Entrepreneurship Competition finalists; and taught MKT 5280 in the College of Business PhD program. During 2019-2020, Dr. Kreiser had six papers published or accepted for publication in peer-reviewed outlets. The five papers that were published were in Entrepreneurship Theory and Practice (5-year impact factor=9.547), International Small Business Journal (5-year impact factor=4.946), Small Business Economics (5-year impact factor=4.452), Journal of Small Business and Entrepreneurship, and the Academy of

Management Proceedings. His paper submitted to the United States Association of Small Business and Entrepreneurship (USASBE) Conference in 2019 was awarded the USASBE Best Empirical Paper Award in January 2020. USASBE is the largest annual academic conference in Entrepreneurship. His paper received first place out of over 450 paper submissions. He had 823 citations of his research during 2019-2020 according to Google Scholar as of July 10, 2020.

Eric Johnson, (Ph.D., Arizona State University) *The Clara Raab Toppan Distinguished Professorship in Accounting*. Activity Update 2019-2020. Dr. Johnson has held the Toppan Distinguished Professorship in Accounting since 2011. His teaching interests center on auditing, fraud and ethics, and his research largely focuses on two areas: 1) auditors' psychological biases that may compromise audit quality and 2) the psychology behind fraudulent behavior in the workplace. His interests form the foundation for significant work in research, outreach and teaching during the 2019-2020 academic year. These activities included:

- Assisting in bringing to campus Mr. Walt Pavlo, a finance manager at MCI Communications who was involved in a large-scale fraud scheme that resulted in millions of dollars of losses. Mr. Pavlo is now a white-collar fraud consultant and blogger for *Forbes*. In October 2019, Mr. Pavlo addressed approximately 150 College of Business students and faculty, talking about the MCI fraud, his Federal prison sentence, and the hard ethical lessons he learned from these experiences. Mr. Pavlo also met online with students from Dr. Johnson's fraud examination course, discussing his book about the MCI fraud which was required reading in the course.
- Bringing to campus in March 2020 Mr. Chris Otto, Partner in Charge of the Ft. Collins office of Plante Moran LLC, a large regional accounting and consulting firm. Speaking to over 40 students from Dr. Johnson's undergraduate and graduate Auditing courses, Mr. Otto discussed the ethical challenges of 21st century financial auditing, focusing on the need for auditors to maintain *professional skepticism* when working with clients to evaluate the risk of financial fraud.
- Revising and resubmitting for publication a major study of auditor and CFO narcissism and its influence on auditors' fraud risk assessments.
- Advancing several new and continuing research projects involving junior Accounting faculty in an ongoing effort to increase research productivity and visibility in Accounting. Three of these projects are close to journal submission, while three others are in advanced stages. One additional new project is in the pilot study phase.

Dr. Johnson provided service to the accounting academy during 2019-20 by serving as an editorial board member for two American Accounting Association journals and completing numerous manuscript reviews for academic conferences and journals. Journals for which he provided reviews include *Journal of Business Ethics*, *Current Issues in Auditing*, and *Behavioral Research in Accounting*. Dr. Johnson was appointed Director of the Master of Science in Accounting program in September 2019. As director of the MS Accounting program, Dr. Johnson led the initiative to take the program entirely online beginning in Fall 2020. This initiative is designed to provide significant outreach to adult learners in Wyoming who would like to pursue graduate studies in accounting but cannot attend in-person courses in Laramie or Casper. Expanding online programs is a key part of the College of Business strategic plan implemented in 2019.

W. Richard Scarlett III and Margaret W. Scarlett Chair of Business Administration - Vacant

John S. Bugas Professor of Economics – Vacant

College of Education

Dr. Dana Robertson (Ed.D. Boston University) *Everett D. and Elizabeth M. Lantz Distinguished Professorship in Education*. Dana Robertson was awarded the Everett D. and Elizabeth M. Lantz Distinguished Professorship in Education in May 2019 and continues until May 2021. Dana's research focuses on understanding how effective literacy coaches work with teachers in order to help coaches develop a strong coaching model and skillset. Providing opportunities for teachers to engage in ongoing professional development with literacy coaches that is situated within their own classroom contexts has been highly correlated with increased teacher learning and student achievement. While having a highly-trained literacy coach in each school along with a school-wide commitment to a culture of coaching is indispensable to the ongoing learning of teachers and students, for positive effects to be widely realized, it is important to hold an explicit understanding of precisely what coaches say and do to support higher levels of teaching expertise. This research meets the UWCOE's mission in the following ways. The project extends work related to literacy coaching that occurred in the Literacy Research Center and Clinic clinical context to understand coaching in school settings. In doing so, it serves to support current Wyoming teachers by developing a model for coaches to effectively work with teachers as they seek to improve literacy teaching and learning. Connected to the clinic context, it serves to support prospective undergraduate teachers who are coached in a clinical context, and also graduate students who are developing their coaching skillsets. Since July 2019, Dana has been interviewing teachers and coaches (6 coach-teacher dyads) in different elementary and secondary schools in Wyoming. Each of these dyads were selected because they are "successful" in terms of the coach and teacher reporting working collaboratively prior to the study participation to improve teaching. He has also been collected video data of dyad coaching interactions, coaching debriefings, and artifacts of instructional delivery in classroom (observation notes). Data sources are currently being transcribed and prepared for analysis. From the analysis and subsequent publications that arise from it, the goal is to continue to refine our current coaching practices in the clinical contexts, and to support coaches as they work with teachers in our professional development contexts in WY schools. Findings will offer significant insights into how schools and teacher educators can leverage *and* improve literacy coaching to *realize ongoing, sustainable professional learning opportunities* that move a wider, more diverse population of teachers and students toward improved teaching and learning.

College of Engineering and Applied Science

Dennis Coon, (Ph.D., Pennsylvania State University) *H.T. Person Professorship of Engineering Education*. Dr. Coon coordinated HT Person Distinguished Speaker Series and Mr. Jerad Stack, Founder of Breakthrough307. Breakthrough307 is a startup network, and early-stage angel fund focused on accelerating startups companies in Wyoming. Mr. Stack presented a talk entitled "Startups, Technology, and the Future of Wyoming" on Friday, October 18. Prof. Coon coordinated the CEAS Freshman Design Challenge for Fall 2019 for approximately 100 freshman engineering students at UW and Casper College. Prof. Coon collaborated with the CEAS John and Sally Steadman Endowment for Educational Improvement Grants program and HT Person Endowment funding was used to implement and enhance active learning methodologies in CEAS. Several activities associated with the integration of active learning methodologies into CEAS coursework with an emphasis on providing required instructor equipment. Travel funding was provided for several CEAS faculty members to participate in active learning, engineering educations, and engineering accreditation conferences. Prof. Coon assisted with the analysis of data from UW students completing the Fundamentals of Engineering Exam and was the instructor of record for four engineering courses during AY 19-20.

Dimitri Mavriplis, (Ph.D., Princeton University), *A.J. Castagne Professorship in UW's College of Engineering and Applied Science (CEAS)*. During the 2019-2020 academic year, Professor Mavriplis taught two courses in the department of Mechanical Engineering, managed a research group consisting of three PhD graduate students,

two MS graduate students, and two postdoctoral researchers, and was involved in various university and external professional service commitments.

In Fall 2019, Professor Mavriplis taught ME 5440: Intermediate Fluid Mechanics, a graduate course in our department. In Spring 2020, he taught ME 5442: Advanced Fluid Mechanics, which is also a graduate level course in our department in the area of research expertise of Professor Mavriplis. Throughout the year, Professor Mavriplis managed his on-going research group which currently consists of two postdoctoral researchers, two PhD graduate students and two MS graduate students. Additionally, three external postdoctoral researchers were supported on a part-time basis over the past academic year. Evan Anderson obtained his PhD degree in Mechanical Engineering and submitted his thesis and graduated in December 2019. He is currently employed at Sandia National Laboratories. Recently, Professor Mavriplis has hired two additional postdoctoral researchers who are due to start work in the summer of 2020. A new MS graduate student was also recruited and started in Spring 2020. During the past academic year Professor Mavriplis and his research group have published 7 conference papers and 3 archival journal papers. Professor Mavriplis has been involved extensively with the NCAR-Wyoming alliance, and has served on the Science Requirements Advisory Panel (SRAP) for the NWSC-3 procurement. He was also asked to review the draft Request for Proposals (RFP) for the NWSC-3 procurement process. Professor Mavriplis currently serves as the Chair of the CFD2030 Integration Committee within the American Institute of Aeronautics and Astronautics (AIAA). Professor Mavriplis also serves as a member of the AIAA High-Lift Prediction Workshop organizing committee and the AIAA Community of Interest on Aircraft Certification by Analysis. Professor Mavriplis also serves on the NREL Working group on wind-sim benchmarks. Finally, Professor Mavriplis and two of his former students wrote an SBIR Phase 2 proposal which was awarded in May 2019. Another Phase 1 proposal was written in March 2020 and was selected for award in June 2020. NASA is the sponsor for both SBIR projects. The research on computational methods for aerodynamics and wind energy undertaken by Professor Mavriplis' group is highly relevant and of interest to the various companies involved in current and future planned wind plant installations in the State of Wyoming. Dr. Mavriplis' research has also been instrumental in leveraging the NCAR-Wyoming Supercomputer (NWSC) facility and demonstrating the importance of this facility for competitive research at UW, for student and faculty recruitment, as well as for economic development and diversification within the State of Wyoming.

Jonathan Brant, (Ph.D., University of Nevada, Reno), *Vincent O. Smith Professorship in Engineering*. Dr. Brant taught two courses in the 2019-20 academic year. These were CE 4400 (design of water treatment facilities) and CE 5700 (water reuse). He was the advisor for 2 MSc graduate student and 4 doctoral candidates. Both MSc and 1 of the PhD students graduated during this time period. He was the Principal Investigator on four active research grants related technology development for treating oil and gas produced waters, including a DOE sponsored project on developing membranes for the selective recovery of hydrocarbons from mixed brines. Other efforts included a Bureau of Reclamation project focused on synthesizing nanocomposite membranes for desalination applications using imogolite nanotubes as the nanofiller and a partnership project with a company for developing treatment systems using magnetic fields. Both of these projects have an overall goal of reducing the energy consumption of desalination processes so as to make them more viable for small communities, like those found in Wyoming. The focus of Dr. Brant's research is the development of new materials and technologies for separating materials, with an emphasis on resource recovery, from water. These applications range from produced water treatment to municipal water reuse to the recovery of elements of value from aqueous mixtures. The benefits of this work to Wyoming include the expansion of our ability to successfully utilize our State's resources, diversification of our water resources, and environmental protection. Dr. Brant is currently partnering with Phenovate, a graphene company in Sheridan, WY, on several research proposals to the Department of Energy and to National Alliance for Water Innovation (NAWI). These efforts tackle water resource management on a variety of fronts. The proposal to DOE centers on improving energy recovery and energy management in water treatment systems, with an emphasis on municipal wastewaters. This effort will include a variety of commercial

partners across Wyoming with a goal of economic diversification from technology spinoff companies. The proposal being submitted to NAWI centers on reducing energy consumption in desalination systems. These efforts benefit Wyoming in a variety of ways, but perhaps most important is the intended goal of locating the expected manufacturing companies here in Wyoming thus providing economic diversification and a means by which Wyoming can retain its homegrown talent base. Dr. Brant will have two new graduate students, one from Wyoming and one from South Dakota, joining our research group in 2020.

Suresh Muknahallipatna (Ph.D., University of Wyoming), *G.J. Guthrie Nicholson Professorship in Electrical Engineering*. Dr. Muknahallipatna has received awards, recently being named as the NVIDIA Deep Learning Institute University Ambassador, 2018: for research expertise in Machine learning and General-purpose computing on Graphics Processing Units (GPGPU). The G. J. Guthrie Nicholson Chaired Professorship of Power Engineering is specific to the field of electric energy. Dr. Muknahallipatna was appointed to the position effective July 2019, recognizing his research work in optimizing parallel algorithms and software for execution on heterogeneous hardware architectures consisting of traditional CPU and accelerators. He has applied the high-performance computing and deep learning research expertise to perform a transient stability analysis (TSA) of the power grid in near real-time. Achieving near real-time TSA of a power grid will allow grid operators to transfer more power over existing transmission lines. This research has resulted in the development of a modified parallel-in-time algorithm for solving Ordinary Differential Equations (ODEs). Dr. Muknahallipatna and his research team have two publications on the modified parallel-in-time algorithm in the year 2020. Dr. Muknahallipatna was instrumental in receiving and implementing an NSF Major Research Instrumentation grant. Dr. Muknahallipatna and his research team have acquired and commissioned the real-time digital simulator from OPAL-RT technologies for real-time simulation of massive power grids for stability and cyber-security studies. Currently, Dr. Muknahallipatna and one of his graduate students are researching on attacking a power grid equipped with phasor measurement units to cause the collapse of the grid. In addition to research on the grid, Dr. Muknahallipatna also researches the use of Deep Learning and Augmented reality devices for medical surgery. Recently, he was the recipient of FDA approval and patent for a medical device that is being used by surgeons in hospitals, for example, at the Minnesota Mayo Clinic. Dr. Muknahallipatna teaches both undergraduate and graduate courses on high-performance computing and machine learning topics.

Dr. Mohammad Piri, (M.Sc. and Ph.D. Imperial College London), *Thomas and Shelley Botts Endowed Chair in Unconventional Reservoirs in the College of Engineering and Applied Sciences*. In the 2019-2020 fiscal year, Prof. Piri and members of his research group presented their research results at conferences and published (or accepted for publication) more than twelve (12) papers in peer-reviewed journals with several more submitted and in preparation. Prof. Piri and his research team continued further development of the world's most advanced Center of Innovation for Flow through Porous Media (COIFPM) located in UW's newly-built High Bay Research Facility. In this time period, he obtained \$8 million in external research funding. Furthermore, his proposal submitted to a major national oil company in the Middle East was ranked first. Currently he is (in close collaboration with UW's General Counsel) in the process of negotiating the research contract and IP rights. Prof. Piri's external research funding exceeds \$18 million. His research group currently includes twenty (20) PhD students, seven (7) post-doctoral research associates, and five (5) staff members. At least two more PhD students will be joining the team in the next 1-2 semesters. Prof. Piri has recruited (or is in advanced stages of recruiting) two high-caliber research scientists for his Digital Rock Technology (DRT) team: (1) Dr. Amin Amooie from Massachusetts Institute of Technology, and (2) Dr. Samuel Fagbemi who recently completed his PhD in Petroleum Engineering at UW. In year 2020, Prof. Piri recruited a Microcopy Laboratory Manager from Harvard University (Dr. Zhenyuan Zhang) and a general Laboratory Manager who had previously joined COIFPM from the University of Utah (Dr. Wattana Chaisoontornytin). Prof. Piri taught two classes: 1) Flow through Porous Media and 2) Unconventional Reservoirs. During January 2019 and May 2020, COIFPM held six (6) preliminary exams and eight (8) final thesis defense sessions for its PhD students. In January 2020, for the fifth year in a row,

Prof. Piri and his team won the performance award granted annually by Hess Corporation after their careful evaluation of COIFPM's contributions and accomplishments. Additionally, in April 2020, for the fifth year in a row, a member of the Prof. Piri's research group (Mr. Abdelhalim Mohamed) was placed first in the Society of Petroleum Engineers (SPE) Regional Student Paper Contest. Moreover, for the past two years, Prof. Piri's PhD students, Elizabeth Barsotti (2019) and Vahideh Mirchi (2018), won the first place in the International Student Paper Contest hosted by SPE. In Fall 2020, Mr. Abdelhalim Mohamed, will compete at the international contest against the winners of the other SPE regions from around the world as part of the SPE Annual Technical Conference and Exhibition. Prof. Piri's specialty is multiphase flow in porous media with applications in oil and gas recovery from unconventional and conventional reservoirs, pore-scale modeling of displacement processes, wettability, and CO₂ sequestration and leakage. Prof. Piri's expertise and research findings have direct relevance to enhancing oil and gas recovery from the reservoirs in the State of Wyoming and elsewhere. Since joining UW in 2005, he has designed, installed, integrated, and commissioned three unique research facilities that have put the University of Wyoming at the forefront of research in the area of flow through porous media. These research facilities include: Encana Three-Phase Flow and Computed Tomography Research Laboratory, Hess Digital Rock Physics Laboratory, and Center of Innovation for Flow through Porous Media. These platforms provide UW students exceptionally rich research and educational experiences that are seldom available elsewhere. Prof. Piri also used these to help attract three new faculty members to the Petroleum Engineering program at UW. Furthermore, he has been diligently working to commercialize the technologies developed in his research group at the University of Wyoming. This has been made possible by a spin-off company, Piri Technologies, LLC, in Laramie, Wyoming. UW is an equity owner of this company. This entity provides distinctive technical services in the broad area of Flow through Porous Media. Through this initiative, Prof. Piri has established an avenue for diversification of the economy in the State of Wyoming as well as creating job opportunities for UW graduates and others. Since the start of its operations in September 2017, Piri Technologies has developed several projects with large national and international corporations. This indicates that its technologies are globally relevant. It currently employs five (5) full-time, highly-talented professionals with advanced degrees. Four of these employees are University of Wyoming graduates with PhD degrees in Petroleum Engineering.

Alchemy Sciences Petroleum Engineering Chair – Vacant

Roy and Caryl Cline Distinguished Chair of Engineering, Environment, and Natural Resources - Vacant

E.G. Meyer Family Visiting Industry Professorship – Vacant

Le Norman Endowed Leadership Chair in Petroleum Engineering -- Vacant

Snaptron Innovation and Entrepreneurship Professorship – Vacant

Interdisciplinary

Drew Bennett, (Ph.D. Geography, Oregon State University) *Whitney MacMillan Professor of Practice in Private Lands Stewardship*. Dr. Bennett leads the Whitney MacMillan Program in Private Lands Stewardship in the West, housed within the Ruckelshaus Institute at the University of Wyoming. The program supports research, information synthesis, outreach, and teaching to help sustain working farms and ranches in Wyoming and the West. During FY2019-20, Dr. Bennett's research activities included documenting landowner perspectives on big game migration corridor conservation policies in the West; a national analysis of rural voters' attitudes on the environment; developing a social science research agenda for managing sagebrush ecosystems; and surveying landowners on their experiences with voluntary conservation programs. Outreach activities included multiple

presentations to landowner groups across the West on environmental and conservation issues; working with stakeholders to develop financial models for transitioning agricultural lands to the next generation of land stewards; co-authoring a guide on conservation finance opportunities for private landowners; launching the Working Lands and Wildlife Project to document and communicate the compatibility of well stewarded working lands with wildlife conservation; and serving on a task force exploring new approaches to valuing conservation easements. In the 2020 spring semester, Dr. Bennett taught a course on entrepreneurial approaches to environmental conservation that trained students in business concepts as they relate the management of natural resources with the aim of inspiring innovation in the environmental sector. Five students are currently involved as projects assistants and gaining experience in research, communication, and project management through the MacMillan Program.

Bruce Parkinson, (Ph.D. California Institute of Technology) *J.E. Warren Distinguished Professorship of Energy and the Environment*. Dr. Parkinson has been a Professor of Chemistry at Colorado State University since 1991. Dr Parkinson is jointly appointed in the School of Energy Resources and the Chemistry Department. (See School of Energy Resources (SER) faculty, part B)

Steve Smutko, *Eldon & Beverly Spicer Chair in Environmental and Natural Resources* (See WY Excellence Endowment Report)

Knobloch Wyoming Excellence Chair for Conservation Economics and Finance - vacant

John and Jane Wold Chair of Energy – Vacant

College of Law

Jacquelyn Bridgeman, (J.D., University of Chicago), has been the *Kepler Distinguished Professorship of Law*. In FY 2020, Ms. Bridgeman continued to provide service to both the College of Law and the College of Arts and Sciences through her continued work as the Director of the School of Culture, Gender, and Social Justice. In the 2019/2020 academic year, Professor Bridgeman taught two innovative courses, Race, Gender, and the Law, and Social Justice and the Law, that were offered to law students, graduate students, and upper-level undergraduates. Truly interdisciplinary in their approach, these courses allowed students to learn about a range of pressing social and political issues through a transdisciplinary lens, with an eye toward understanding and seeking solutions to real world social problems. Ms. Bridgeman also taught employment law, offered to law students only. In September of 2019 Ms. Bridgeman became the magistrate judge for the Albany County Integrated Juvenile Treatment Program (juvenile drug court), where she works with a range of local community members to help address the needs of children admitted into the program and to further develop the program according to national best practices. She published two book chapters, *Where Do We Go From Here?: Claiming a Transformative Role for CRT's Future*, in *Critical Race Theory in the Academy* (Vernon Farmer ed., 2020) and *Still I Rise in Presumed Incompetent – II* (Yolanda Flores Niemann, Gabriella Gutierrez y Muhs, & Carmen G. Gonzalez eds., Utah State University Press, 2020). She is currently working on two book projects, one on gender and sports and the other on social justice in American society.

Stephen M. Feldman, (J.S.M., Stanford University, 1986; J.D., University of Oregon, 1982; B.A., Hamilton College, 1977), has been the *Jerry W. Housel/Carl F. Arnold Distinguished Professor of Law* and Adjunct Professor of Political Science since 2002. During the past year, he has published numerous articles and essays, including the following: Free-Speech Formalism Is Not Formal, *_ Drexel L. Rev. _* (forthcoming) (presented at Symposium on Not Your Father's First Amendment); Free-Speech Formalism and Social Injustice, 26 *Wm. & Mary J. Race, Gender & Social Justice* 47 (2019) (presented at Symposium on First Amendment Marketplace Morass); Broken Platforms, Broken Communities? Free Speech on Campus, 27 *Wm. & Mary Bill Rts. J.* 949 (2019), *reprinted in* The First Amendment Law Handbook (Rodney A. Smolla ed., Thomson Reuters, forthcoming); The Politics of the Law-Politics Dichotomy, 33 *B.Y.U. J. Pub. L.* 15 (2019); Having Your Cake and Eating It Too? Religious Freedom and LGBTQ Rights, 9 *Wake Forest J. of Law & Policy* 35 (2018). Temple University Press has recently offered him a contract to publish his new book ms. on court-packing. His article, Broken Platforms, Broken Communities? Free Speech on Campus, 27 *Wm. & Mary Bill Rts. J.* 949 (2019), is being reprinted in The First Amendment Law Handbook (Rodney A. Smolla ed., Thomson Reuters, forthcoming). As he does regularly, Professor Feldman taught Constitutional Law I, Constitutional Law II, and Jurisprudence. His research and writing projects emphasize national concerns and are of national interest. As such, they benefit the University of Wyoming, the state of Wyoming, and Wyoming residents. His articles and essays consistently rank in SSRN's Top Ten Percent Total New Downloads List as well as SSRN's Top Ten Percent Total All-Time Downloads List. His essay, Having Your Cake and Eating It Too? Religious Freedom and LGBTQ Rights, 9 *Wake Forest J. of Law & Policy* 35 (2018): SSRN's Top Ten Download List for AARN: Sexuality (Sub-Topic) (August 15, 2019); Feminist Theory & Philosophy eJournal; LSN: Constitutional Claims (Topic) (August 15, 2019); Sexuality & Gender Studies eJournal (August 15, 2019); WGSRN: Family Law, Gender & Sexual Difference (Topic) (August 15, 2019); WGSRN: Feminist Philosophy (Topic) (August 15, 2019); WGSRN: Non-Binary Gender & Sexuality Studies (Topic) (August 15, 2019); and WGSRN: Religion, Marriage, & Motherhood (Sub-Topic) (August 15, 2019). He is the faculty adviser for the American Constitution Society Wyoming student Chapter.

James Delaney, J.D., Gonzaga School of Law, LLM (Taxation) University of Florida School of Law, *Winston S. Howard Distinguished Professor of Law*. James Delaney was appointed as the Winston S. Howard

Distinguished Professor of Law at the beginning of the 2017-2018 academic year and he is now finishing his third year in that capacity. During the 2019-2020 academic year, Prof. Delaney completed a co-authored book, *Questions & Answers, Estate & Gift Taxation*, Carolina Press (2019). This book was a third edition which Prof. Delaney was invited to co-author and includes the changes which were recently enacted under the Tax Cuts & Jobs Act. In the spring of last academic year, Prof. Delaney was also invited along with two other authors in the Mountain West to rewrite a legal treatise used by the local and national members of the bar entitled *Planning for Large Estates* (forthcoming). This project will span several years due to the changes in tax law which have occurred over the recent past. During the 2019-2020 academic year, Prof. Delaney finished writing and updating a chapter of *Planning for Large Estates* which was published several months ago. He continued to update and rewrite another chapter this spring of 2020. Also, during the fall of 2019 and the first month of January 2020, Prof. Delaney co-authored an article, *Recent Developments in Federal Taxation: The Year 2019*, which was published in *The Tax Lawyer*, Vol. 73, No. 3, Spring 2020. This article made the Top Ten download list on SSRN for two separate weeks. With regard to teaching, Prof. Delaney teaches an overload of business law and tax courses at the College of Law. He teaches Contracts 1, Business Entities Taxation (corporate and partnership taxation), Federal Income Taxation, Estate & Gift Taxation, and Estate Planning every year. Professor Delaney's teaching and writing projects emphasize national concerns and are of national interest. As such, they benefit the University of Wyoming, the state of Wyoming, and Wyoming residents. For instance, his books on Federal Income and Estate & Gift Taxation serve to educate students at Colleges of Law throughout the Mountain West and abroad. In relation speaking, in the fall of 2019, Prof. Delaney attended and spoke at the American College of Trust and Estate Counsel's Rocky Mountain West Conference held in Jackson Hole, Wyoming. In the fall of 2019, he also spoke at the University of Montana Tax Institute which took place in Missoula, Montana. He has once again been invited to speak at the Montana Tax Institute this coming fall of 2020. In January of 2020, Prof. Delaney was honored to be invited to and speak at the American Bar Association Midyear Tax Conference in Boca Raton Florida. In June of 2020, Prof. Delaney co-spoke at a continuing legal education conference for the Virginia Law foundation. In the spring of 2020, Prof. Delaney was honored by the Board of Regents of the American College of Trust & Estate Counsel who elected Professor Delaney as an Academic Fellow of the College. The American College of Trust & Estate Counsel (ACTEC) was formed for the central purposes of studying and improving trust, estate and tax law, procedures and professional responsibility. ACTEC and its Fellows file amicus briefs in appropriate cases, testify before Congress, provide in-depth analysis of administrative positions to the Internal Revenue Service, assist in the development of best practices for trust and estate lawyers, and participate actively in the development of the recommendations being promulgated by the international Financial Action Task Force. The Board of Regents of ACTEC elected Professor Delaney based upon his active involvement in the work of the Tax Section of the American Bar Association and his numerous presentations at tax conferences which are national, regional and statewide. The Regents also considered Professor Delaney's scholarly publications, extensive teaching experience in the field of tax law, and his previous service to the United States Judiciary as Counsel to the Chief Judge of the United States Tax Court as well as his service as an Attorney Advisor to the Honorable Judge Robert P. Ruwe, Judge, United States Tax Court.

Alan Romero (J.D., Harvard University), *Carl M. Williams Professor of Law & Social Responsibility*. Professor Romero is the founding Director of the University of Wyoming Rural Law Center. One ongoing project of the Rural Law Center is its Legislative Research Service, which offers student legislative research and drafting on rural policy issues to local governments and public-interest groups. During the 2019-2020 academic year, Professor Romero organized and supervised legislative research for the Wyoming County Commissioners Association about land use laws and policies to help preserve wildlife migration corridors. He also planned a conference about rural law practice to be held in the spring, but the coronavirus pandemic changed that plan. Instead, he has planned a conference about rural, solo, and small-firm practice to be held in the fall of 2020 in collaboration with the Wyoming State Bar. The pandemic also changed Professor Romero's plan to make presentations in Laramie and other Wyoming towns about landlord-tenant law. Instead, in May he live-streamed

an hour-long presentation to a virtual audience around the state. The presentation helps Wyoming tenants understand the relevant law and protect their legal interests in creating, performing, and terminating leases and has been viewed over 1,500 times. The pandemic has raised some unique landlord-tenant law issues, and Professor Romero has been interviewed for radio and print reports about those issues in Wyoming and has also advised student tenants concerning pandemic-related lease issues. Professor Romero also completed his latest article, *Rural Roads*, to be published in the fall. The article evaluates the common problem of legal uncertainty about the status of rural roads and advocates rules that will reduce legal uncertainty and be sensitive to the circumstances of rural roads and property owners. Professor Romero taught Property I and Property II, required courses for all first-year law students; Real Estate Finance, which covers subjects tested on the Wyoming bar exam; and Land Use Law. In three of these four courses, he compiled and edited new case materials, in part to emphasize case law from Wyoming and surrounding states. He also supervised one student's independent study and paper about age-restricted housing and the Fair Housing Act, and a student paper for the Wyoming Law Review.

Sam Kalen, (J.D., Washington University), *Centennial Distinguished Professor*. Mr. Kalen is the Associate Dean and Co-Director of the Center for Law and Energy Resources in the Rockies. He is a nationally recognized scholar in the fields of energy, environment, public lands and natural resources, and administrative law. Professor Kalen engaged an array of research, instructional, and service related activities during this past academic year. To begin with, Professor Kalen published three seminal articles in highly regarded publications, and a fourth article was published in a widely circulated professional journal with a co-author. One article discussed the international dimensions of what is called the "right to water." Another two articles (one with a co-author) addressed the growing discussion about the Federal Energy Regulatory Commission's approach toward the certification of new interstate natural gas pipelines. The fourth article discussed the evolution of the National Environmental Policy Act, published in a leading journal involving that Act. His scholarship this past year has attracted the national news media, as he is now often a source for various national news resources and has contributed through that means in a number of service related activities. He also has been engaged in a variety of pro bono activities. For teaching, Professor Kalen has taught an overload of courses, including courses in Administrative Law, Legislation, Environmental Law, Energy Law, and Public Lands. One of those courses, Public Lands, helped bridge two schools, Pace (Haub) School of Law, and the University of Wyoming, and the course was jointly taught (Professor Kalen and a professor from Pace) with students from both law schools. Through his teaching, service, and scholarship, Professor Kalen continues to focus on issues critical to Wyoming and to students who may soon practice law in Wyoming.

Steve Easton, (J.D., Stanford Law School) *William T. Schwartz Professor of Law*. In August of 2020, Steve helped to direct the tenth annual Summer Trial Institute at the College of Law, even though he did so voluntarily as he now serves as the President of Dickinson State University in North Dakota. In this unique program, over 60 Wyoming and area attorneys and judges served as volunteer guest faculty for a record-tying 29 College of Law students learning trial advocacy. He also continued (with College of Law Professor Tara Righetti and School of Energy Resources faculty members) work on an oil and gas litigation problem for use in this course that was based primarily on Wyoming law, to give students the opportunity to work on a trial arising out of energy production. In the falls of 2017, 2018, and 2019, Prof. Easton presented continuing education courses on evidence for Wyoming judges at their annual conferences. In the fall of 2019, he presented an evidence seminar at the annual meeting of the Wyoming State Bar (in Jackson). He also worked, on a pro bono (i.e., volunteer) basis, on Wyoming matters. In the spring of 2019, he directed the fifth annual Spence Law Firm Historic Trial, based on the Rock Springs Massacre, working with Wyoming attorneys, judges, and law students. This event is open to the public, to give non-lawyer Wyomingites the opportunity to learn about both history and the legal system. To increase the University's outreach programs, Prof. Easton worked with faculty at Western Wyoming Community College to present a second historical trial (in addition to the annual trial in Laramie) in Rock Springs on March

1, 2019. This trial drew an overflow crowd of approximately 250 persons, most of them Sweetwater County community members. He continued to provide evidence and legal ethics advice upon request to Wyoming attorneys and judges. The subjects in two of Prof. Easton's courses, Evidence and Professional Responsibility, are tested on the Wyoming bar examination. Prof. Easton also coordinated law student participation in the Ewing T. Kerr Inn of Court, an organization of Laramie and Albany County attorneys and judges. He also serves as a member of the Wyoming State Bar's Criminal Jury Instruction Committee, which develops jury instructions for criminal trials in Wyoming.

Noah Novogrodsky, (J.D., Yale Law School) *Carl M. Williams Professor of Law and Ethics* and the Faculty Director of the Center for International Human Rights Law & Policy. Professor Novogrodsky is the fortunate recipient of the Carl M. Williams Chair of Law & Ethics at the College of Law. In that position, he has taught five courses in the past year: (1) Civil Procedure, (2) International Human Rights Law, (3) The International Human Rights Practicum – a semester long supervision of students working on an asylum case involving a stateless refugee, (4) Public International Law, and (5) Transitional Justice. Noah was recently nominated by colleagues, current students and former students for the Ellbogen Award for Excellence in Teaching. His scholarship has focused on two articles over the last year – an examination of the murder of Jamal Khashoggi and its effect on international legal norms, and an analysis of Chinese development contracts in Africa. In terms of service, Professor Novogrodsky has been retained an expert witness in four immigration court cases and partnered with a COL alumnus in Jackson to brief an immigration case of first impression before the 10th Circuit Court of Appeals. He has appeared at conferences and panels at Georgetown University Law School and at the American Society of International Law.

Michael R. Smith (J.D., University of Florida). *Carl M. Williams Professor of Law & Ethics*, split with Noah Novogrodsky. Professor Smith is the Director of the Legal Writing Program and is the Founder and Director of the Center for the Study of Written Advocacy at the University of Wyoming College of Law. In Fall 2019, Professor Smith received a major national award from the Legal Writing Institute. With nearly 3000 members, the Legal Writing Institute (LWI) is the leading organization of legal writing teachers and professionals in the country; it represents most law schools in the United States as well as many law schools in other countries. In November 2019, Professor Smith was named the recipient of the 2019 Mary S. Lawrence Award, which “recognizes an individual for a combination of pioneering scholarship and innovative curriculum or program design.” The award announcement stated that Professor Smith's interdisciplinary scholarship and course design in the area of written legal persuasion has had an “international” influence on the discipline and declared him “one of the field's greatest and first discipline-builders.” In spring 2020, Professor Smith co-authored the Third Edition of the SOURCEBOOK ON LEGAL WRITING PROGRAMS, published by the American Bar Association Communications Committee. The SOURCEBOOK sets out best practices for designing, staffing, and administering legal writing programs in law schools and for teaching legal writing in both the required first-year program of law schools and in upper-level electives. Professor Smith is also the author of an ongoing column called “Write On!,” which appears in the WYOMING LAWYER, a magazine published by the Wyoming State Bar. This column provides instruction for practicing lawyers, judges, and paralegals on how to improve their professional writing. During the 2019-2020 academic year, Professor Smith published the following articles under this column: *Traits of Credibility - Part 1: An Introduction to Ethos* (August 2019); *Traits of Credibility, Part 2: Honesty* (December 2019); and *Traits of Credibility, Part 3: The Tension Between Zeal and Good WILL* (April 2020). In his role as the Director of Legal Writing, Professor Smith generally administers the legal writing program at the College of Law. During the 2019-2020 academic year, these duties included advising the law school faculty and administration on the legal writing curriculum, overseeing the hiring of adjunct professors to teach in the first-year writing program, overseeing and mentoring these adjunct professors during the academic year, overseeing the hiring of students teaching assistants for the first-year legal writing program, and generally being the contact person at the law school on issues related to the legal writing program. Professor Smith also continued working

with the Writing Center on the main campus to strengthen the relationship between law students and the general Writing Center. Professor Smith also served as the Chair of a Faculty Dispute Committee for a lengthy matter that began in June 2019 and concluded in December 2019. As for teaching, in Fall 2019, Professor Smith taught 3 sections of Legal Writing I. Legal Writing I is a required course that teaches first-semester law students the foundations of legal analysis, legal research, and legal writing. In Spring 2020, he taught the first-year required course Criminal Law.

E. George Rudolph Distinguished Visiting Chair – vacant

University Libraries/Honors College

Yolanda Hood (Ph.D. University of Missouri, Columbia) *Carol J. McMurry Endowed Librarian for Academic Excellence.* Dr. Hood began working at the university on September 16, 2019. She spent the fall semester 2019 acclimating to the university and taking the opportunity to meet faculty from various departments. During the spring semester of the 2019-2020 AY she taught one section of HP 2020: Honors Colloquium II. During the fall semester she had one article published and was also selected as the editor of *Young Adult Library Services Journal*, a journal of the American Library Association. As the Academic Excellence Librarian, Dr. Hood was able to provide faculty in the Honors College, Art, and Art History with specialized instruction sessions in library research, collaboration on class assignments, and title suggestions for various courses/assignments. Dr. Hood will publish “Research Roundup: Multifaceted Teen Services,” *Young Adult Library Services*, Vol. 18, Issue 2, Winter 2020, 6-7.