

UNIQUE RESEARCHER NAMES (Bolded items are related to sustainability)	
Department	Researcher Name
Biology Department	Bob Bell <b>Bob Rosenfield</b> <b>Brian Barringer</b> <b>Chris Hartleb</b> Chris Yanke <b>Dan Graf</b> Diane Caporale Jen Bray Justin Sipiorski Karin Bodensteiner <b>Krista Slemmons</b> <b>Matt Rogge</b> <b>Pete Zani</b> Qiang Sun Sara Jane Alger <b>Stephanie Lyon</b> <b>Thomas Lentz</b> <b>Virginia Freire</b>
Center for Land Use Education	<b>Aaron Thompson</b> <b>Anna Haines</b>
Center for Watershed Science & Educ	<b>George Kraft</b> <b>Kevin Masarik</b> <b>Nancy Turyk</b> <b>Paul McGinley</b>
Chemistry	Jason D'Acchioli Nathan Bowling <b>Robin Tanke</b> <b>Shannon Riha</b> <b>David Snyder</b> David Szpunar Jim Lawrence <b>Joseph Mondloch</b>
College of Fine Arts and Communication	Kathryn McGarry Cary Elza, PhD Hyosun Kim, Ph.D. Thomas A. Salek, Ph.D. Timothy Halkowski, Ph.D.
Computing and New Media Technologies	Alexander Iliev Tim Krause Tomi Keimonen
Dean's Office - CNR Education	<b>Brian Sloss</b> Tim Wright Nikki Logan Sydney Bueno
Forestry	<b>Laura Anderson</b> <b>Michael Demchick</b> <b>Richard Hauer</b> <b>Ronald Masters</b>
Geography & Geology	Christine Koeller <b>Doug Miskowiak</b> <b>Dr. Eric Larsen</b> <b>Dr. Samantha Kaplan</b>
Human Dimensions of Natural Resources Mathematical Science	<b>Melinda Vokoun</b> Andy Felt Dan Harnett Hurlee Gonchigdanzan Senfeng Liang Sirin Budak
Northern Aquaculture Demonstration	<b>Christopher Hartleb</b> <b>Gregory Fischer</b>
Philosophy	<b>Alice Keefe:</b> <b>Chris Diehm</b> Jason Zinser <b>Luke Whitmore</b>
Physics and Astronomy	Shanny Luft Adriana Durbala Brad Hinaus Chris Verzani Ken Menningen Maryam Farzaneh Mick Veum Palash Banerjee Sebastian Zamfir

Political Science Department	<b>Brad Mapes-Martins, Ph.D.</b> Jennifer N. Collins John Blakeman	
Psychology	<b>Mert Kartal, Ph.D.</b> <b>Saemyi</b> Amy Gervasio Craig Wendorf Debbie Palmer Heather Molenda-Figueira <b>Jenna Maygar</b> Jiaxi Want Jody Lewis <b>Mark Ferguson</b> Patrick Conley <b>Robert Nemeth</b> Maggie Watson Rebecca Henning Beth Kinslow Daniel McCarty <b>Heidi Wincentsen</b> Holly Schmies Jodi Olmsted Lorraine Zorowski <b>Rebecca Sommer</b> Reed Brooks	
School of Communication science and disorders		
School of Health Care Professions		
School of Health Promotion and Human Development	Cuiting Li <b>Jasia Steinmetz</b> Kelly Schoonaert Sterling Wall <b>Tom Wetter</b>	
Sociology and Social Work	Various - private Various - private Various - private Various - private Various - private	
Soil & Waste Resources	<b>Johnathan Rivin</b> <b>Bryant Scharenbroch</b> <b>Daniel Keymer</b> <b>Jacob Prater</b> Michele Miller	
Student Involvement & Employment	<b>Joshua Raabe</b> <b>Justin VanDeHey</b> <b>Rachel E Schultz</b> <b>Jenny Christopher</b> <b>Jordan King</b> <b>Rebecca Franzen</b> <b>Joy Kacoroski</b> <b>Kendra Liddicoat</b> <b>Steve Kerlin</b> <b>Jeremy Solin</b>	
Water Resources	Brian Sloss <b>Daniel Isermann</b> <b>Janice Kerns</b> <b>Wes Larson</b> <b>Paul Fowler</b> <b>Jacob Straub</b> <b>Jason Riddle</b> <b>Kevin Russell</b> <b>Scott Hygnstrom</b> <b>Shawn Crimmins</b> <b>Shellii Dubay</b> <b>Tim Ginnett</b>	
WI Center for Environmental Ed		
WI Cooperative Fishery Researc		
WI Institute for Sustainable Technology		
Wildlife Department		
World Languages and Literatures	Mike Olsen (Spanish) Tobias Barske (German): Tom Leek (German):	
Department Total		29
Department with Sustainability Research		20
Researcher Total		138
Sustainability Research		69

Count	Researcher	Department	Description	
1	Bob Bell	Biology Department	\$1000 from Long Lake, WI for continuing algal community dynamics study	
2	Bob Bell	Biology Department	\$600 from Cochrane Lake, WI for barley straw evaluation study.	
3	Bob Rosenfield	Biology Department	Productivity and population monitoring of Peregrine Falcons breeding in West Greenland; 45-year ongoing study. Bradley Baum, Jonathan Hill, Kevin Myers Sarah Scott, Adam Kamal, and Peter Lawrence, <u>undergrad research assistant</u>	
4	Bob Rosenfield	Biology Department	Productivity and breeding dispersal of Wisconsin Cooper's Hawks; 38-year ongoing study. Michelle Sweeney, Sarah Scott, Janelle Taylor, Danielle Matheny, and Kevin Myers <u>undergrad research assistants</u>	
5	Bob Rosenfield	Biology Department	Spatial distribution and habitat associations of breeding Cooper's Hawks in the Little Missouri National Grasslands, North Dakota. Janelle Taylor research assistant.	Sustainability Research
6	Bob Rosenfield	Biology Department	Migratory connectivity and source populations of migrating Cooper's Hawks in North American Flyways. Invited collaboration with Ph.D. candidate Breanna Martinico, UC-Davis and Dr. Sarah Sonsthagen, Alaska Science Center, Anchorage, AK	
7	Bob Rosenfield	Biology Department	Temporal frequency and incidence of breeding by one-year-old female Cooper's Hawks in Wisconsin. Analyses of 32-year data continues.	
8	Bob Rosenfield	Biology Department	Comparative fitness between first-time and experienced urban breeding female Cooper's Hawks in British Columbia; a 17-year study. Andy Stewart (retired biologist, Ministry of Natural Resources, BC) collaborator. Field work complete, data analyses ongoing.	
9	Bob Rosenfield	Biology Department	Nesting density of urban breeding Cooper's Hawks in Oshkosh, Wisconsin, 2016. Ongoing study. Private citizen Larry Sobolik collaborator.	
10	Bob Rosenfield	Biology Department	What are the genetic effects of urbanization on a highly dispersive and mobile avian predator? Invited collaboration with Ph.D. candidate Meghan Jensen (West Virginia University). <u>Continuing study</u>	
11	Bob Rosenfield	Biology Department	Causes and correlates of reversed sexual size dimorphism in predatory birds. Invited collaboration with Ph.D. candidate Brian Millsap (University of New Mexico). <u>Continuing study</u>	
12	Bob Rosenfield	Biology Department	Comparative extra-pair paternity (EPP) among four breeding populations of Cooper's Hawks. Collaboration between Drs. Sarah Sonsthagen (Alaska Science Center, Anchorage), Timothy Driscoll (Urban Raptor Project, Grand Forks, ND), William Stout (Oconomowoc, WI), and Andy Stewart (Ministry of British Columbia [retired], Victoria). Molecular analyses completed: high rates of EPP found in all populations! Ph.D. candidate Paul Frater (former UWSP undergrad), University of Iceland assisting with statistical analyses and writing; Paul is an ex-student of mine and accompanied me in 2008 to Greenland to conduct research on Peregrine Falcons there. Paper write-up <u>continuing</u>	
13	Brian Barringer	Biology Department	The reproductive ecology of diploid and tetraploid Galax uccelloata. (Quantifying the pollinator community and level of self-compatibility of a plant species native to the Southern Appalachian Mountains)	Sustainability Research
14	Brian Barringer	Biology Department	Spatial synchrony within and among populations of valley oak (Quercus lobata) leaf gall wasps. (Assessing whether seven species of gall wasps in California exhibit synchrony in terms of their life cycles within and among populations)	Sustainability Research
15	Brian Barringer	Biology Department	Inbreeding depression in diploid and tetraploid species of Clarkia. (Making comparisons among four closely-related species of annual plants from California in terms of the consequences of self-fertilization, which represents the ultimate form of inbreeding)	
16	Brian Barringer	Biology Department	Maternal and paternal effects in Brassica. (Studying how the maternal and paternal environment affect the health of offspring in an annual plant)	
17	Brian Barringer	Biology Department	The effects of buckthorn (Rhamnus spp.) on native plant species diversity in a nature reserve. (Assessing whether and to what extent the presence of buckthorn - an invasive species - affects native plant diversity in Schmeckle Reserve)	Sustainability Research
18	Brian Barringer	Biology Department	The role of deer and other mammals in the spread of buckthorn (Rhamnus spp.) in a nature reserve. (Assessing whether and to what extent deer and other small mammals spread buckthorn - an invasive species - seeds in Schmeckle Reserve)	Sustainability Research
19	Brian Barringer	Biology Department	Polyploidy and range size in the California flora. (Exploring whether polyploid plants - those with more than two copies of their genome in each cell - have larger ranges than diploid plants - those with only two copies of their genome in each cell - using a large dataset corresponding to about 5500 species of plants in the California flora).	
20	Chris Hartleb	Biology Department	Began work investigating the sublethal effects of sea lamprey parasitism in long-term reproduction, growth and recruitment of Siscowet and lean lake trout. This product is a collaboration with Michigan State University	Sustainability Research
21	Chris Hartleb	Biology Department	Began work investigating the potential for raising a cool water fish (walleye and its hybrid) in commercial aquaponic and recirculating aquaculture facilities.	Sustainability Research
22	Chris Hartleb	Biology Department	Continued work on developing advanced continuing education short courses for those in the aquaculture community and K-12 teachers. This includes topics such as marketing & products, reproduction, pond production, water quality, aquaponics, plant & fish health, crop selection and feeds, harvesting & processing, and recirculating aquaculture systems	Sustainability Research
23	Chris Hartleb	Biology Department	Completed work investigating bottleneck factors in the production of larval yellow perch (70 days post hatch) raised in recirculating aquaculture systems. This project was funded by the USDA North Central Regional Aquaculture Center	Sustainability Research
24	Chris Hartleb	Biology Department	Completed work investigating the effects of aquaculture drugs (formalin and hydrogen peroxide) on nitrogen oxidation of biofilters of freshwater recirculating aquaculture systems. This project was funded by the U.S.G.S.	Sustainability Research
25	Chris Hartleb	Biology Department	Completed work on experiments comparing the production of a warm water fish (tilapia) and a cool water fish (walleye) in commercial aquaponics systems. This was the first experiment at the newly established UWSP-Aquaponics Innovation Center	Sustainability Research
26	Chris Yanke	Biology Department	Continued research on course-based undergraduate research experiences (CURE)	
27	Chris Yanke	Biology Department	I am also working on a manuscript to be submitted to Citizen Science. This spring I collaborated with 10 other biology instructors (mostly mammalogists) across the country on a pilot study looking at the behavior of ramus squirrels	
28	Dan Graf	Biology Department	Metagenomic analysis of microbial populations in aquaponics systems. - Collaboration with Matt Rogge. I am providing coding and ecological expertise to analyze differences among microbial communities with and among aquaponics systems in WI and MN	Sustainability Research
29	Dan Graf	Biology Department	Phylogeny of Freshwater Mussels. - I am currently using freshwater mussel DNA sequences to develop a method for synthesizing the results of multiple tree searches based on bootstrap values and/or posterior probabilities. This work was presented at the annual meeting of the American Malacological Society and will be incorporated into a publication on the phylogeny of Central American freshwater mussels	
30	Dan Graf	Biology Department	Revision of the Freshwater Mussels of northern South America. -Kevin Cummings at the University of Illinois Natural History Survey and I are near completion of a manuscript based on extensive collections-based research. This work will lead to a publication	
31	Dan Graf	Biology Department	Revision of the Freshwater Mussels of Central America. - This project is a collaboration with current UWSP student Elena Hausmann using the (previously) NSF-funded MUSSEL Project Database	
32	Dan Graf	Biology Department	Biodiversity Informatics of Wisconsin Freshwater Mussels. - This project is a collaboration with current UWSP student Ryan Dykstra and former students Carissa Puerzer, Mary Gertner, Ryan Pappas, Charlie Jordan, and Madalyn Zimbric. We are creating an extensive database of georeferenced museum records to test hypotheses of species distributions. This work has led to a presentation at a professional meeting (2015) and is expected to result in a 2nd presentation and an eventual publication.	Sustainability Research
33	Dan Graf	Biology Department	WInvertebrates Web Site. - <a href="http://winvertebrates.uwsp.edu/">http://winvertebrates.uwsp.edu/</a> . The WInvertebrates Web site ("Towards an Account of the Freshwater Invertebrate Taxa of Wisconsin USA") is an ongoing project to develop the biodiversity informatics infrastructure for students of invertebrate zoology at UWSP, professionals, and the general public. In addition to providing a flexible platform for synthesizing information and images, the site also serves as an outlet for student-written content. The WInvertebrates web site serves 35 student essays from my BIOL/WATR 361/561 and BIOL 490 sections. The content of the site is managed using a custom FileMaker Pro database, and the site is periodically updated using a Python script that I wrote to convert the database records into static HTML pages.	Sustainability Research
34	Diane Caporale	Biology Department	Caporale, D.A., A. Stameski, and M. Workman. A BRCA2 nonsense mutation found in a small cell lung cancer biopsy from a BRCA2+ patient with a history of breast cancer	
35	Diane Caporale	Biology Department	Caporale, D.A., C. Hein, and A. Marcoe. An 18-year surveillance of the spread of multiple tick-borne pathogens in Ixodes scapularis from a microgeographic region of Wisconsin	
36	Diane Caporale	Biology Department	M. Maki* and D.A. Caporale. HLA-DQ1 Alpha and Beta Genotypes Associated with Non-Celiac Gluten Sensitivity.	
37	Diane Caporale	Biology Department	Olson, A.M., J. Hartzel, and D.A. Caporale. Are introns of the alpha-spectrin gene associated with hereditary spherocytosis?	
38	Jen Bray	Biology Department	"Behavioral Effects of Alcohol in a Transgenic Mouse Model" This project utilizes a variety of behavioral paradigms to assess spatial learning in a transgenic mouse model that over expresses CCL2 with and without alcohol exposure. Three students have been involved in this research project to date. Fall 2016 - Present.	
39	Jen Bray	Biology Department	CCL2 Protein Determination in a Transgenic Mouse Model! The aim of this research project is to determine the protein levels of different neuroimmune factors in the hippocampus and cerebellum throughout development of the mouse brain and to explore how alcohol affects the levels of these factors. Five students have been involved in this research project to date. Fall 2014 - Present.	

40	Justin Sipiorski	Biology Department	IN PROGRESS: With several undergraduate collaborators; Illustration, writing and graphic design of a field guide to 200 species of fish common to the Upper Midwest/Western Great Lakes. We hope the innovative aspect of this guide is that we will illustrate these 200 species at multiple life stages: adult male, adult female, juvenile (pre-breeding), and larval. Few fish guides thoroughly cover a broadly distributed fauna at multiple life stages. The book is about 40% Complete.	
41	Justin Sipiorski	Biology Department	MANUSCRIPT PHASE: with co-authors Ellie Wallace (former student) and Dr. SarahJane Alger, we are finalizing a manuscript on Ellie's undergraduate research from an internship in South Africa on stress behavior and physiology of several species of endemic South African sharks—working title: Physiology of stress in three endemic South African small bodied Shysharks (Family Squaliariidae: Chondrichthyes)	
42	Karin Bodensteiner	Biology Department	Reproductive histology of CCL2 transgenic mice. Three students (Cali Hagen, Amarra Zehms, and Amarpreet Brar) worked on evaluation of ovarian histology and follicular populations in female mice transgenic for CCL2 (MCP-1). To date, we have collected ovaries and counted follicular populations in neonatal and peri-pubertal females. Data collection and analyses are ongoing, and we anticipate submission of an abstract to the Society for the Study of Reproduction.	
43	Krista Slemmons	Biology Department	Lakes within lakes study- fossil-based inference model for lake mixing depths. Collaborators: Bob Elliott, Evan McCaul, Steve Kingston Lake Superior Provincial Park, Ontario Parks. This research began during the summer of 2016 and examines changes in diatom communities over the last 100 years, as the result of elevated lake surface temperatures and altered lake thermal structures. This work implements a fossil-based inference model for lake mixing depths (developed on island lakes within Isle Royale) for two island lakes on Michipicoten Island within Lake Superior to determine how thermalstructure has changed over the last 100+ years. Understanding the biotic effects of a varying thermal structure can have profound ecological implications particularly in light of warming climate scenarios.	Sustainability Research
44	Krista Slemmons	Biology Department	Wisconsin Lakes - assessment of community turnover and water quality. Collaborators: UWSP undergraduate students. Through the use lake sediment cores and comparative lake surveys, the aim of this project is to identify atmospheric and landscape drivers of ecosystem turnover over time and to determine the influence of these drivers on modern water quality. The goal of this approach is to establish a critical threshold at which these changes occur to better inform ecosystem managers.	Sustainability Research
45	Krista Slemmons	Biology Department	Swedish Lakes - assessment of community turnover and nitrogen thresholds. Collaborators: UWSP undergraduate students. The goal of this project is to examine diatom profiles from lake sediment cores from a suite of Swedish lakes of varying nitrogen deposition rates to identify points in time (and the associated deposition rates) of key diatom community shifts. These nitrogen levels can then be used to infer critical nitrogen loads for this region. The lakes targeted for this study were used in past studies examining the effects of nitrogen deposition on present-day phytoplankton.	Sustainability Research
46	Krista Slemmons	Biology Department	Global trends in primary productivity using sedimentary pigments. Collaborators: S. Burke, University of Waterloo, Global Lake Ecological Observatory Network (GLEON). This project was initiated in 2016 and is examining, through a larger, global wide data sets of lakes, global trends in primary productivity through the use of sedimentary algal pigments, particularly chlorophyll a	Sustainability Research
47	Krista Slemmons	Biology Department	Diatom community change in lakes of Glacier National Park, Collaborators: Jeffery Stone, Indiana State University; Jasmine Saros University of Maine, UWSP undergraduates.	Sustainability Research
48	Krista Slemmons	Biology Department	This project is examining the change over the last century in two nitrogen indicating diatom species in lakes within Glacier National Park.	
48	Krista Slemmons	Biology Department	Biogeochemical changes over the Holocene in The Loch, Rocky Mountains. Collaborators: Jason Price, Illinois College. This project examines major climate shifts over the last 18,000 years to determine possible correlations with biotic community change. An interdisciplinary collaboration with faculty from Illinois College where we are examining historical changes in the geology and biology of the Lochs Lake in the Rocky Mountains	Sustainability Research
49	Krista Slemmons	Biology Department	Novel techniques using Scanning Electron Microscopy (SEM) methodology to enumerate diatoms. Collaborators: Sepsenwol S. A collaboration with Sol Sepsenwol, UWSP emeritus, to develop using the Biology Department Scanning Electron Microscopy to count lake algae (diatoms) from lake sediment	
50	Krista Slemmons	Biology Department	Lake-level decline and ecological impacts of high capacity well withdraw of groundwater in Wisconsin Lakes. Collaborators: Undergraduate student – Cayley Covey. Designed by a UWSP undergraduate research student examining how lake level has changes with an increase in high capacity well development and how this has influenced aquatic communities over time	Sustainability Research
51	Krista Slemmons	Biology Department	Temporal comparison of diatom community change over the last 50 years within the Plover River, Central Wisconsin, USA via gut content analysis of the Central Stoneroller (Campostoma anomalum). Collaborators: Rodgers M*, Fleischman C*, Whitenack M*, Grosch J*, Wied J*, Hill B*, Sipiorski J, Bell B. A collaboration with UWSP students, the Wisconsin department of Natural Resources and faculty in the UWSP Biology Department. We are examining how museum fish specimens can be used to trace historical changes in the Plover River, Wisconsin	Sustainability Research
52	Krista Slemmons	Biology Department	Educating a workforce through aquaculture, curriculum development. Collaborators: Hartleb C, Helal H, Evans B, Pattillo D. Involves developing techniques and a corresponding educational curriculum to train students in K12 schools and community members on the science and process of aquaculture.	Sustainability Research
53	Krista Slemmons	Biology Department	Video Length on Learning in a Middle Level Flipped Science Setting. Collaborators: Anyanwu K, Hames J, Graski D, Mlsna J, Cook P This project is the result of a collaboration between the Biology Department, the USWP School of Education and PJ Jacobs Junior High School in Stevens Point. This project is the result of an ongoing three year study examining how video length can influence student learning and how effective a flipped classroom is at improving retention and engagement in the middle school classroom.	
54	Matt Rogge	Biology Department	Completed a research project funded by NCRAC/USDA-NIFA to study microbial communities in aquaponic systems using metagenomic DNA sequencing. A manuscript is in preparation.	Sustainability Research
55	Matt Rogge	Biology Department	Continued research with Esteban Soto at the UC-Davis College of Veterinary Medicine to evaluate subunit vaccines against the tilapia pathogen Francisella noatunensis subsp. orientalis. My role is to clone, express, and purify proteins of interesting using E. coli and provide the products to UC-Davis for evaluation in vaccination trials. To date, six genes have been cloned, and four have been expressed. Purification of three proteins has been problematic due to low expression. Other expression vectors will be evaluated for stronger expression and better purification. One protein has been expressed at a high level and purified. Further work is continuing with this protein to purify the desired	Sustainability Research
56	Pete Zani	Biology Department	First, a paper based on research conducted by a UWSP student was published in a peer reviewed journal while a second manuscript from the Zani lab was submitted for publication.	
57	Pete Zani	Biology Department	Additionally, a project continuing from 2015 on the energetic storage of animals from a number of latitudes finished data collection and moved on to the manuscript-writing phase with a draft paper expected for submission later in 2018. All of these projects represent continuation of long-term research projects at UWSP.	
58	Pete Zani	Biology Department	Second, a project on the choice of microhabitat by lizards continued to monitor lizards during winter and to collect data on activity. Currently we have data spanning five winters, which should enable determination of patterns and cues resulting in individual activity. In addition, overwintering arenas in the lab and field have enabled for experimental determination of activity, though sufficient data are not yet available to warrant scientific publication.	
59	Pete Zani	Biology Department	Third, the summer field (May-August) allowed me to continue a long-term study of sideblotched lizards in eastern Oregon. I have now collected 13 years of recapture data on marked individuals, which has revealed population fluctuations related to El Niño-Southern Oscillation that will be published in the future. Additionally, this year I collaborated with researchers from the University of California–Riverside to study the relationship between field behavior and physiological performance in lizards.	
60	Pete Zani	Biology Department	Fourth, the funding from DOT and DNR to study the turtles of Jordan Pond where SH66 crosses the Plover River enabled me to hire four UWSP summer students in 2017. This project saw the first full year of post-installation activity at a wildlife underpass as well as monitoring efforts by students to quantify the road mortality along that stretch of highway. Based on funding projections, this project will continue at least through the summer of 2018.	Sustainability Research
61	Qiang Sun	Biology Department	Co-Principal Investigator (PI: Caroline Roper at UC-Riverside, CA and two other researchers from UC Davis, CA) on "Characterization of Xylella fastidiosa plant cell wall degradation and inhibition of the Type II secretion machinery", California Department of Food and Agriculture, July 1, 2016 – June 30, 2018. \$304,859 (UWSP's share: \$59,662). Funded	
62	Qiang Sun	Biology Department	In those projects, both Chardonnay and Cabernet Sauvignon vines were inoculated with two wild types (Temacula 1 and Fetzter) and five mutants (ΔEngXCA1, ΔEngXCA2, ΔEngXCA1/2, ΔPG and ΔEG1), respectively, of the causal bacterium Xylella fastidiosa (Xf). These Xf mutants are different in producing certain cell wall degrading enzymes, potentially affecting the Xf-host vine interactions. Since the last merit evaluation, my lab has used the two grapevine genotypes infected with these different Xf strains and examined Xf-vine interactions in these vines at both middle and late timepoint of PD symptom development. These analyses have led to important information in the following four aspects: tylose development, Xf distribution, pit membrane (PM) integrity and presence/absence of xyloglucans on PMs. The information gained is useful to analyze Xf-host interactions, contributing to the understanding of grapevine's PD susceptibility mechanism. Some of these results have been included in a progress reports published online ( <a href="https://static.cdffa.ca.gov/PiercesDisease/reports%2f2017%2fRoper%20Xf%20Cell%20Wall%20Degrad%2016-0510-SA%20(2017.08.03.1212).pdf">https://static.cdffa.ca.gov/PiercesDisease/reports%2f2017%2fRoper%20Xf%20Cell%20Wall%20Degrad%2016-0510-SA%20(2017.08.03.1212).pdf</a> ).	

63	Sarah Jane Alger	Biology Department	Neurobiology and Behavior of Pair Bonding in Zebra Finches: My lab is exploring the neural responses of zebra finches to calls produced by a current partner, an ex-partner or a stranger. Prior to this year, we had collected the behavioral data, fixed the brain tissue, and conducted an immunohistochemistry assay. This year, we have focused on microscopy. Six undergraduates have been involved in this project this year. Notably, Mackenzie Davidson and Mikayla Schaalma presented their findings at the COLS Undergraduate Research Symposium. We are continuing to collect data on the microscope, we are preparing posters for a national conference and expect to prepare a manuscript for publication in the future. I have also begun a follow-up study exploring the responses of catecholaminergic neurons in zebra finches to exposure to a mate, an opposite-sex non-mate cagemate, and a same-sex non-mate cagemate. I had the proposal approved by IACUC and have begun behavior testing. Eric Busch, a Biology 399 student, piloted the use of a new software for the analysis of animal behavior. Jennie Krusiec, a Biology 399 student, wrote and received grants (OSCAR and UEI) to test whether dominance is a trait used in mate choice and if behavioral compatibility is important for zebra finch reproductive success. She completed collecting her data in December, at which point she graduated. We are now analyzing to data for presentation at a national conference. <del>I am also collaborating with Lauron Pifers at UW-Madison to test gene expression patterns in social brain regions of zebra finches in response to being housed with a same-sex</del>	
64	Sarah Jane Alger	Biology Department	Neurobiological and Behavioral Responses to Dead Conspecifics in Western Scrub Jays: I am collaborating with Teresa Iglesias at the Australian National University to test how social brain regions respond to dead conspecifics in western scrub jays. Prior to this year, the behavior data and brains had been collected, the immunohistochemistry assays are complete and my students and I are currently microscopically analyzing the labeled tissue.	
65	Sarah Jane Alger	Biology Department	Behavioral Effects of Extra-Pair Mating in the California Mouse: My collaborators, Cathy Marler, Josh Pultorak, Steven Loria, and Aaron Johnson at UW-Madison, and I submitted a manuscript on the effect of extra-pair mating on behavior and vocal communication in a monogamous rodent, the California mouse to Behavioral Ecology and Sociobiology. We are awaiting peer review.	
66	Sarah Jane Alger	Biology Department	Stress Physiology and Behavior in Shysharks: Ellie Wallace, a previous Biology 399 student that I co-advised with Dr. Justin Sipiorski (she is now a graduate student at Nicholls State University), explored the effects of angling stress on blood lactate in shysharks. We are currently writing a manuscript for submission for publication.	
67	Sarah Jane Alger	Biology Department	Research Primate Behavioral Changes In Response to Retirement in a Sanctuary: Primates Incorporated is a Wisconsin-based nonprofit organization that is currently building facilities to house and care for retired research primates. I am assisting their primatologist, Hilary Hemmes-Kavanaugh and CEO, Amy Kerwin, to develop a study to assess the residents' behavioral states and behavioral changes as they adjust to the sanctuary. The sanctuary's first residents are scheduled to arrive in January of 2018.	
68	Sarah Jane Alger	Biology Department	Science Communication Research: Christina Hartley and Lisa Fowle, both Biology 399 students, are working with me to scour animal behavior journals to test the hypothesis that the term "promiscuous" is incorrectly applied to female animals more often than to male animals. We are in the data collection phase of this project and plan to present it at a national conference in 2018.	
69	Stephanie Lyon	Biology Department	Approximately 8000 specimens imaged and databased for NSF-funded project on invasive species in the Great Lakes watershed.	Sustainability Research
70	Thomas Lentz	Biology Department	Characterization of Possible Splice Mutations in Hereditary Spherocytosis, is a collaborative effort with Dr. Driver and Dr. Caporale, as well as scientists at Prevention Genetics (Marshfield, WI).	Sustainability Research
71	Thomas Lentz	Biology Department	Survey to Determine Prevalence of Ranaviruses in Wisconsin Wildlife, also draws from faculty collaboration. I plan to work with Dr. Sipiorski, Dr. Hartleb, and other faculty in procuring specimens for this project.	Sustainability Research
72	Virginia Freire	Biology Department	Inventory of Bryophytes from St. Martin's Island: Identified all specimens previously collected at St. Martin's Island, Lake Michigan. This study is part of an effort to prepare the first inventory of plants and animals for the island, now in hands of Nature Conservancy. The manuscript is now in preparation. My coauthor is Tana Route, a recent UWSP Biology graduate who traveled with me to the island.	Sustainability Research
73	Virginia Freire	Biology Department	Liverworts from Central America: Currently working on the Catalogue or Central American Liverworts in co-authorship with several contributors from Central America and the Field Museum of Natural History. We are still in the data gathering and paper preparation stages but hope to submit the manuscript this year.	Sustainability Research
74	Aaron Thompson	Center for Land Use Education	Green Lake: Social Science Assessment of Agricultural Landowners (funding source: WDNR)	Sustainability Research
75	Aaron Thompson	Center for Land Use Education	Stakeholder-Driven Planning for Resilience in Wisconsin's Forested Communities (funding source: USDA-NIFA) (Year 1 of 2)	Sustainability Research
76	Anna Haines	Center for Land Use Education	Landowner and visitor response to forest landscape restoration: The Northeast Sands project	Sustainability Research
77	Anna Haines	Center for Land Use Education	Landowner and Visitor Response to Forest Landscape Restoration: The Chequamegon-Nicolet National Forest Northeast Sands Project (Year 1 of 2) (funding source: USDA-NIFA)	Sustainability Research
78	George Kraft	Center for Watershed Science & Educ.	Preparing and Sharing the State of the Tomorrow River Report (funding source: WDNR)	Sustainability Research
79	George Kraft	Center for Watershed Science & Educ.	Agroecosystem Modeling in Support of Wisconsin's Nitrate Initiative (funding source: U.S. EPA through the WI Land & Water Conservation Association)	Sustainability Research
80	George Kraft	Center for Watershed Science & Educ.	Monitoring Support for Groundwater Management in the Wisconsin Central Sands (submitted to UW Water Resources Institute)	Sustainability Research
81	George Kraft	Center for Watershed Science & Educ.	Portage County Groundwater Sampling Project	Sustainability Research
82	Kevin Masarik	Center for Watershed Science & Educ.	Chippewa County Groundwater Quality Inventory	Sustainability Research
83	Nancy Turyk	Center for Watershed Science & Educ.	Developing an APM for Tree Lake, Portage County, WI	Sustainability Research
84	Nancy Turyk	Center for Watershed Science & Educ.	Oconto County Lake Project, Phase 1 6 lakes and Master LMP, Grant 4 (funding source: WDNR)	Sustainability Research
85	Nancy Turyk	Center for Watershed Science & Educ.	Oconto County Lake Study and Planning, Phase 1, Grant 1 (5 Lakes) (funding source: WDNR) (subaward)	Sustainability Research
86	Nancy Turyk	Center for Watershed Science & Educ.	Oconto County Lake Study and Planning, Phase 1, Grant 2 (4 Lakes) (funding source: WDNR) (subaward)	Sustainability Research
87	Nancy Turyk	Center for Watershed Science & Educ.	Oconto County Lake Project, Phase 1, Grant 3 (funding source: WDNR)	Sustainability Research
88	Nancy Turyk	Center for Watershed Science & Educ.	Implementing Shoreland Goals in Portage Co. Lake Management Plans (funding source: WDNR)	Sustainability Research
89	Nancy Turyk	Center for Watershed Science & Educ.	Fish Creek Improvement and Protection Plan (split funding)	Sustainability Research
90	Nancy Turyk	Center for Watershed Science & Educ.	Waushara County Lakes Project Planning Grant - Amendment 1 (funding source: WDNR)	Sustainability Research
91	Nancy Turyk	Center for Watershed Science & Educ.	Working with the Community to Develop Lake Management Strategies for Lake Wausau - Phase 1-Hydrodynamic Model, Aquatic Macrophyte Survey, Bathymetry and In-Lake Habitat (funding source: WDNR)	Sustainability Research
92	Nancy Turyk	Center for Watershed Science & Educ.	Swan Lake (Columbia County) Lake Management Plan Development (funding source: WDNR)	Sustainability Research
93	Nancy Turyk	Center for Watershed Science & Educ.	Working with the Community to Develop Lake Management Strategies for Lake Wausau - Phase 2-Hydrodynamic Model, Socio-Economic Study, and Project Coordination (funding source: WDNR)	Sustainability Research
94	Nancy Turyk	Center for Watershed Science & Educ.	Working with the Community to Develop Lake Management Strategies for Lake Wausau - Phase 3-Shoreland Survey, Lake Management Plan, and Project Coordination (funding source: WDNR)	Sustainability Research
95	Nancy Turyk	Center for Watershed Science & Educ.	Completion of BEP Management Plan	Sustainability Research

96	Paul McGinley	Center for Watershed Science & Educ.	Silver Lake 1: Water Quality and Aquatic Plants (funding source: WDNR)	Sustainability Research
97	Paul McGinley	Center for Watershed Science & Educ.	Bathymetry of McDill Pond (funding source: WDNR)	Sustainability Research
98	Paul McGinley	Center for Watershed Science & Educ.	Silver Lake 2: Modeling and Planning (funding source: City of Portage)	Sustainability Research
99	Paul McGinley	Center for Watershed Science & Educ.	Swan Lake Columbia County Lake Management Plan Development - Amendment (funding source: WDNR)	Sustainability Research
100	Paul McGinley	Center for Watershed Science & Educ.	Streamflow Data Evaluation for Adams County, Wisconsin	Sustainability Research
101	Jason D'Acchioli	Chemistry	Hydrogen Production via Homogeneous Catalysis: Investigations of the Water-Gas-Shift Reaction (Year 3 of 3)	
102	Nathan Bowling	Chemistry	Fundamental Studies of 4,4'-Bipyridine Aryleneethynylenes	
103	Nathan Bowling	Chemistry	Collaborative Research: RUI: Manipulation of Arylene Ethynylene Structures and Properties via Coordination, Halogen Bonding and C-H Hydrogen Bonding	
104	Robin Tanke, PhD	Chemistry	Iron Complexes as Catalysts for Hydrosilylation Reactions In the past, iron complexes were typically passed over as potential catalysts because iron easily oxidizes to an inactive state. Recently, however, iron complexes have been shown to be effective catalyst for a variety of reactions that are have been catalyzed by expensive metals like ruthenium, osmium, rhodium, iridium, palladium or platinum. Since iron is one of the most abundant elements on earth, processes involving iron are considered inexpensive, sustainable and generally non-toxic. We are looking at hydrosilylation reactions because organic silanes are found in a variety of products including lubricants, adhesives and coatings. Students involved in these projects will learn inert atmosphere techniques and use nuclear magnetic resonance, infrared and absorption spectroscopy, as well as X-ray diffraction and mass spectrometry to characterize products. Furthermore, students will make presentations locally and regionally. In addition to traditional research projects, I also mentor students, usually education majors, interested in offering a "Chemistry at UWSP Day" for high school and middle school students	Sustainability Research
105	Shannon Riha, PhD	Chemistry	Combating Solar Energy Challenges with Earth-Abundant Thin Films Renewable energy has gained considerable attention over the last decade in effort to reduce our carbon footprint and protect our environment. Amongst the different forms of renewable energy, solar energy is largely under-represented in the current energy landscape despite its potential. Making solar energy a larger piece of our energy puzzle will require a further reduction in cost, flexibility in design, and most importantly a way to store the sun's energy when it is not shining. Thin film semiconducting materials composed of earth-abundant elements offer a promising solution to combat these challenges. Research in my group focuses on identifying novel materials for solar energy conversion (photovoltaics) and solar energy storage (solar fuels), as well as investigating the effects of synthesis method and post-processing treatments on the physical, chemical, and optoelectronic properties of the material. Students working in my lab will have the opportunity to learn air-free synthetic techniques, thin film deposition methods, and materials characterization methods, including: UV-vis, IR and Raman spectroscopy, scanning electron and transmission electron microscopy (SEM and TEM, respectively), energy dispersive spectroscopy (EDS), X-ray diffraction (XRD), and photo-electrochemistry. In addition, students in my lab often work with students doing research in the physics department to collaborate on measuring electronic and photophysical properties of the materials. Thin Film Photovoltaics Copper-based sulfides have a rich history in thin film photovoltaics (PV). Currently, we are investigating copper antimony sulfide, specifically CuSbS <sub>2</sub> , as a thin film PV absorber material given its elemental abundance, relatively low toxicity, as well as its very suitable optoelectronic properties. In one part of this project, students will synthesize CuSbS <sub>2</sub> nanoparticles using air-free synthetic techniques and subsequently deposit thin films from nanoparticle "inks". Post-processing treatments of the thin films (e.g., thermal treatments, ligand exchange mechanisms) will be explored and the effects analyzed with a suite of characterization methods. In another part of this project, students will develop a thin film deposition method based on a layer-by-layer assembly of the cations and anions that make up CuSbS <sub>2</sub> . Solar Fuels Water is considered the "Holy Grail" for solar fuels; using the sun's energy, water can be split into H <sub>2</sub> and O <sub>2</sub> , which can then be stored and later used as clean-burning fuels. The material used to promote the water splitting process, called a photocatalyst, must be able to: 1) absorb a significant amount of the sun's energy, 2) have the proper energy levels to promote water splitting, 3) be stable in caustic or alkaline conditions, and 4) be composed of earth-abundant and non-toxic elements. Mixed metal oxides are potentially capable of meeting those requirements but there are over 19,000 ternary oxides and over 200,000 quaternary oxides possible! Students working on this project will use a combinatorial approach to effectively screen multiple photocatalysts for water splitting in order to identify key compositions. After identifying key compositions, students will develop solution-based synthesis methods to prepare larger-scale thin films of the mixed metal oxides for more in-depth analysis.	Sustainability Research
106	David Snyder, PhD	Chemistry	(Environmental Chemistry, Air Quality Measurements and Modeling) Emissions from the burning of fossil fuels and biomass, along with other human and natural activities, can result in the release and formation of small particles which may contain soot, organic compounds, and toxic heavy metals. The chemical composition of these particles can provide information on their origin and potential impact on human health & welfare and on the Earth's climate. Our group conducts field and laboratory research that is focused on understanding the sources of fine particle air pollution (PM <sub>2.5</sub> ) and the exposure of susceptible populations to emissions from these sources. We use both "real-time" measurements and integrated sampling techniques (collection of samples followed by laboratory analysis), to understand the sources and potential impact of particle pollution on human health and the environment.	Sustainability Research
107	David Szpunar, PhD	Chemistry	Velocity Map Imaging of Atmospherically Important Radicals and their Photolytic Precursors My research interests lie in the area of photodissociation dynamics. In my lab, halogenated species are used as photolytic precursors of radical intermediates found in atmospherically important reactions. 1 These experiments can shed light on the barrier heights in the reactions of interest, as well as the inter- and intramolecular forces involved in these reactions. Briefly, a molecular beam of these radical precursors is crossed with the output of an ultraviolet laser to initiate dissociation, producing the halogen atom (2P) and its momentum-matched radical fragment. The nascent halogen atoms are selectively ionized using resonance enhanced multiphoton ionization (REMPI), and detected using the velocity map imaging (VMI) technique. 2 The translational energy distribution (P(ET)) derived from these halogen atoms is then calculated, yielding insight on the primary photodissociation reaction. Any nascent radical fragments are examined using VMI with vacuum ultraviolet (VUV) photoionization at 118nm.atching, the resulting P(ET) derived from any stable nascent radicals should be identical to that derived from the halogen products. Any radicals that are not stable (i.e. have energies exceeding any barrier heights to dissociation) will dissociate and not be represented in the radical-derived P(ET). In other words, high-velocity radicals (with low internal energies) will be represented, while those slower radicals (with higher internal energies) will not be represented. Determining where the halogen-derived and radical-derived P(ET)s diverge signals the translational energy at which radicals become unstable. Energy conservation is then invoked to determine at which internal energy the radicals become unstable, yielding the barrier height.	
108	Jim Lawrence, PhD	Chemistry	When alcohol enters the central nervous system (CNS) it disrupts the physiological balance, producing several negative effects on the nervous system, specifically learning and memory. It has been shown that the neuroimmune protein Chemokine (CC motif) Ligand 2 (CCL2), perturbs the negative effects alcohol has on the hippocampus, the region of the brain associated with learning and memory. CCL2 transgenic mice that overexpress this protein have been used to study the phenotypical and behavioral effects of alcohol use. Although the signaling cascade initiated by CCL2 is currently unknown, identification of proteins responsible for these effects is possible through the combination of SDS-PAGE and high-resolution mass spectrometry. Using these techniques, a molecular fingerprint was produced by identification of differentially expressed proteins located in hippocampus of CCL2-transgenic mice when compared to wild type mice. Over a time course of ten days mice of varying ages consumed 6g/kg of 20% ethanol every day. After the alcohol treatment, the left-hemisphere hippocampus was extracted for proteomic analysis and the right-hemisphere hippocampus was used for quantification of CCL2 concentration. This ensured identical biological samples for cross-comparison between CCL2 expression and the effects this had on the proteome of the hippocampus. ELISA was used to quantify CCL2 concentration. Proteins from the left hemisphere were extracted and subsequently resolved using large format SDS-PAGE analysis. Differentially expressed proteins were identified by Quadropole-Time of Flight tandem mass spectrometry. Identification of proteins was done using a combination of MassHunter Qualitative, ProFinder, and NCBI databases.	

109	Joseph Mondloch (Inorganic & Materials Chemistry)	Chemistry	Materials containing void spaces known as porous solids, are capable of functioning as tiny molecular sponges. Gases and liquids are attracted to the internal surfaces of these sponges (see Figure 1) and this property allows them to function as practical materials for gas capture, gas separation, metal capture from solution, and chemical catalysis. Hence, porous materials can be used to capture carbon dioxide, purify medical grade oxygen, remove lead or other contaminants from drinking water, and promote the sustainable production of organic and inorganic molecules. From a chemist's perspective, the precise control, or "design", of porous solids has been a long-standing challenge. It can be difficult to construct porous solids that can be tuned for a specific application. Fortunately, by combining metals (i.e., nodes) and organic molecules (i.e., linkers), chemists have recently started to tackle this challenge. The resultant solids, an illustration of which is shown in Figure 2, are termed metal-organic frameworks (MOFs) and they constitute an important and rapidly growing class of porous materials. Very recently MOFs have been commercialized to store and deliver gases for the semiconductor and agricultural industries. We are an inorganic and materials chemistry research group that focuses on understanding the synthesis of MOFs and developing catalysts with unique reactivity for important chemical transformations. Students within the group will receive one-on-one mentoring and learn how to synthesize and modify MOFs, characterize MOFs using powder X-ray diffraction, thermal analysis, and spectroscopic methods (e.g., NMR, IR, and UV-vis), and carry out catalytic reaction chemistry with MOFs.	Sustainability Research
110	Kathryn McGarry, PhD	Chemistry	Nitrogen atoms and nitrogen heterocycles are prevalent in biologically active natural products and pharmaceuticals. Improved methods which introduce nitrogen into a carbon scaffold or achieve formation of a nitrogen heterocycle could provide more efficient access to known molecules or new derivatives that may prove medicinally useful. One such method would be the intramolecular copper-catalyzed amino oxygenation of an amine-tethered alkene substrate. This method would achieve the formation of the ring structure through the creation of a nitrogen-carbon bond and an oxygen-carbon bond across the carbon-carbon double bond in one reaction step. Copper is an attractive catalyst for this process because it is comparatively less expensive and less toxic than other metal catalysts. The use of a metal catalyst also provides the opportunity to potentially generate a stereoselective pathway to the nitrogen heterocycle structure. Research focuses on the development of this methodology.	
111	Cary Elza, PhD	College of Fine Arts and Communication	Topic: "Guillermo del Toro and Hollywood Pedagogy" Description: This project, which comprises several different articles in progress, examines del Toro's use of digital and traditional media to engage audiences on multiple levels.	
112	Cary Elza, PhD	College of Fine Arts and Communication	Topic: "Alice's Adventures in Intertitle-Land: Nontheatrical Distribution and the Evolution of Intertitles in the 1920s" Description: This project looks at the use of media, particularly film, in pedagogy in the 1920s, with a particular focus on the way in which intertitles contributed to film's credibility as a medium for teaching.	
113	Hyosun Kim, Ph.D	College of Fine Arts and Communication	Social media and user-generated rumors in times of crisis: A case of the Sandy Hook Conspiracy video on YouTube. Brief summary: This study looks at how user-generated rumors created by users can be transmitted to many people, damaging organizations' reputation and potentially causing another crisis.	
114	Hyosun Kim, Ph.D	College of Fine Arts and Communication	YouTube tutorial videos really help? : The mediation role of parasocial interaction with YouTuber in increasing purchase intention Brief summary: This experiment explores how online tutorial videos created by fellow consumers (vs. brands) affect consumers' intention to try the products.	
115	Hyosun Kim, Ph.D	College of Fine Arts and Communication	Unpacking unboxing videos: How does parasocial interaction moderate motivations and purchase intent? Brief summary: This survey examines what motives consumers watch YouTube unboxing videos and how parasocial interaction with unboxers can help predict purchase intent.	
116	Hyosun Kim, Ph.D	College of Fine Arts and Communication	Story telling in CSR: How do narrative persuasion and consumer engagement influence pro-social behavior? Brief summary: Inspired by Dragonfly effect by Jennifer Aaker, this experiment explores importance of storytelling in CSR communication and the role of consumer engagement in the story that could impact pro-social behavior.	
117	Thomas A. Salek, Ph.D.	College of Fine Arts and Communication	Character Assassination on the 2016 Campaign Trail: Hillary Clinton, Donald Trump, and the Rhetorical Deconstruction Credibility Summary: This essay investigates how Clinton and Trump used ethotic arguments on the 2016 campaign trail to understand contemporary political discourse. The essay adds to scholarly research on American political rhetoric—particularly how candidates with high un-favorability ratings can run for higher office.	
118	Thomas A. Salek, Ph.D.	College of Fine Arts and Communication	Redefining Crisis to Make a Difference: President Obama and Governor Haley's Transformational Rhetorical Leadership following the June 17, 2015 Charleston Shooting Summary: Examining the June 17, 2015 shooting at Emanuel AME Church in Charleston, South Carolina, this essay illustrates how post-crisis rhetorical leadership helped America address the divisive issue of racism. I argue that President Barack Obama and Governor Nikki Haley used their rhetorical skills to associate this mass shooting with racism and need to purge the Confederate flag from public arenas. This study emphasizes rhetorical leadership's transformational function in a post-crisis environment.	
119	Thomas A. Salek, Ph.D.	College of Fine Arts and Communication	Donald Trump Tweets the 2014 Ebola Outbreak: Fake News, Celebrity Tweets, and the Infectious Nature of Apocalyptic Counterpublic Rhetoric Summary: This article explores the reciprocal rhetoric of the mainstream media and Trump's Twitter use during the 2014 Ebola outbreak. By exploring Trump's use of apocalyptic rhetoric, this study argues that the personal nature of the future President of the United States' social media communication and use of common "end-of-the-world" tropes created an online counterpublic that spread fake news.	
120	Timothy Halkowski, Ph.D.	College of Fine Arts and Communication	Sequential analysis of Dr-Pt discussions of tobacco and alcohol use' Brief summary: Descriptive analysis of the sequential patterns that occur in primary care Dr--Pt discussions of whether or not the patient uses tobacco/alcohol, and if so, how much.	
121	Alexander Iliev	Computing and New Media Technologies	Data Analytics; Digital Speech, Audio and Signal Processing; Psychoacoustics	
122	Tim Krause	Computing and New Media Technologies	Content Management Systems	
123	Tim Krause	Computing and New Media Technologies	Online Marketing and e-Commerce systems	
124	Tim Krause	Computing and New Media Technologies	Project Management Methodologies	
125	Tomi Heimonen	Computing and New Media Technologies	Semi-automated, Large-Scale Evaluation of Public Displays	
126	Tomi Heimonen	Computing and New Media Technologies	Utilizing Experience Goals in Design of Industrial Systems	
127	Tomi Heimonen	Computing and New Media Technologies	Data Analytics with Flexible Manufacturing Systems	
128	Tomi Heimonen	Computing and New Media Technologies	Information Ergonomics	
129	Tomi Heimonen	Computing and New Media Technologies	Ambient User Experience of an Intelligent Future Factory	
130	Brian Sloss	Dean's Office - CNR	Macroinvertebrate Taxonomy Project (funding source: U.S. EPA)	Sustainability Research
131	Brian Sloss	Dean's Office - CNR	Development of eDNA Techniques for Detection of Endangered Purple Cat's Paw Pearlymussel and Snuffbox (Year 2 of 2) - RWO 28	Sustainability Research
132	Brian Sloss	Dean's Office - CNR	Characterizing Structure of Woody Biomass to American Marten Habitat-Amendment	Sustainability Research
133	Brian Sloss	Dean's Office - CNR	FY16 Reduction for McIntire-Stennis	Sustainability Research
134	Brian Sloss	Dean's Office - CNR	Support for Fish Propagation Science Center at the Wisconsin Cooperative Fishery Research Unit, University of Wisconsin-Stevens Point	Sustainability Research
135	Lead: Tim Wright; Nikki Logan & Sydney Bueno	Education	Surveying Midwestern college/university instructors to determine how they meet the needs of undergraduate and graduate students enrolled in dual credit courses (eg: Educ 351/551). There is not a specific discipline we are looking for. Any dual-credit listed course.	
136	Laura Anderson	Forestry	Unplug or Plugging-In? Understanding Visitor Connections to Technology of Remote and Urban-Proximate Forests (Year 2 of 2) (funding source: USDA-NIFA)	Sustainability Research
137	Michael Demchick	Forestry	Is operator select, every fifth row thinning viable for red pine thinning in Wisconsin? (Year 2 of 2) (funding source: USDA-NIFA)	Sustainability Research
138	Michael Demchick	Forestry	Karner Blue Butterfly Recovery Program Population Estimate Survey (funding source: U.S. Dept. of Interior/U.S. Fish & Wildlife Service)	Sustainability Research

139	Michael Demchick	Forestry	Developing Native and Native-European Hybrid Hazelnut Germplasm and Agronomics for the Upper Midwest (funding source: USDA-NIFA; sponsor: University of Minnesota) - subcontract	Sustainability Research
140	Michael Demchick	Forestry	Antimicrobial Properties of American Hazelnut Oil and Extracts (funding source: USDA)	Sustainability Research
141	Michael Demchick	Forestry	Exploring factors related to dark heart of hard maple in Wisconsin (Year 2 of 2) (funding source: USDA-NIFA)	Sustainability Research
142	Richard Hauer	Forestry	Assessment of Municipal Urban and Community Programs in the United States and Evaluation of Associated Community Capacity	Sustainability Research
143	Richard Hauer	Forestry	Sustainable Urban Forestry Planning Models and Decision Making Dashboard	Sustainability Research
144	Richard Hauer	Forestry	Municipal Urban Forestry Census 2014 (Year 2 of 2) (funding source: USDA-NIFA)	Sustainability Research
145	Ronald Masters	Forestry	Northern Highlands Ecosystem Responses to Thinning and Fire Frequency (Year 2 of 2) (funding source: USDA-NIFA)	Sustainability Research
146	Ronald Masters	Forestry	SAFE Travel Grant (Tree Grant) through Assoc. for Fire Ecology to attend SW Fire Ecology and Management Conference	
147	Christine Koeller	Geography & Geology	Legend Lake Bathymetric Map (funding source: Legend Lake Protection and Rehabilitation District)	
148	Doug Miskowiak	Geography & Geology	Upper Couderay River Watershed - Forestry Best Management Practices and Erosion Vulnerability Analysis	Sustainability Research
149	Doug Miskowiak	Geography & Geology	Upper Couderay River Watershed: Environmental Information GIS Database Development	Sustainability Research
150	Doug Miskowiak	Geography & Geology	Upper Couderay River Watershed - Forestry Best Management Practices and Erosion Vulnerability Analysis	Sustainability Research
151	Dr. Eric Larsen	Geology/Geography	Who has done research in Yellowstone National Park that pertains to its ecology	Sustainability Research
152	Dr. Samantha Kaplan	Geology/Geography	Who has done research in the area of climate change	Sustainability Research
153	Melinda Vokoun	Human Dimensions of Natural Resources	Engaging Northwoods Family Forest Owners in Management: Policy Tool Preferences and Engagement Strategies (Year 2 of 3) (funding source: USDA-NIFA)	Sustainability Research
154	Andy Felt	Mathematical Science	Integer linear programming	
155	Dan Harnett	Mathematical Science	Central limit theorem	
156	Hurlee Gonchigdanzan	Mathematical Science	Almost sure central limit theorem	
157	Senfeng Liang	Mathematical Science	Mathematics education	
158	Sirin Budak	Mathematical Science	Mathematics education	
159	Christopher Hartleb	Northern Aquaculture Demonstration	UW-Stevens Point Northern Aquaculture Demonstration Facility, Aquaculture Specialist/FY2014-FY2017 University of Wisconsin Sea Grant Omnibus Program (source: U.S. Dept. of Commerce) Year 3 of 4	Sustainability Research
160	Christopher Hartleb	Northern Aquaculture Demonstration	Production and economic evaluations of new technologies for raising yellow perch fingerlings (funding source: U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration) (Year 2 of 2) (subaward to Coolwater Farms, LLC)	Sustainability Research
161	Gregory Fischer	Northern Aquaculture Demonstration	Is depth selection in lake trout morphotypes a genetic trait? (funding source: U.S. Dept. of State/Great Lakes Fishery Commission) (Year 2 of 2)	Sustainability Research
162	Gregory Fischer	Northern Aquaculture Demonstration	Superior Fresh LLC Atlantic Salmon Project	Sustainability Research
163	Gregory Fischer	Northern Aquaculture Demonstration	Maintenance of F2 Lake Trout for Research on Genetic Diversity (Year 2 of 2)	Sustainability Research
164	Gregory Fischer	Northern Aquaculture Demonstration	Effects of Temperature Manipulation and Density on Arctic Char ( <i>Salvelinus alpinus</i> ) Growth, Processing Attributes and Sexual Maturity in a Freshwater Recycle System	Sustainability Research
165	Gregory Fischer	Northern Aquaculture Demonstration	Comparing the Sublethal Effects of Sea Lamprey Parasitism on Long Term Reproduction, Growth, and Recruitment of Siscowet and Lean Lake Trout (Year 2 of 3) (funding source: Great Lakes Fishery Commission)	Sustainability Research
166	Alice Keefe:	Philosophy	Alice A. Keefe, "Religion, Gender and the Liberation of Bodies," a response to Roland Boer's The Sacred Economy of Ancient Israel, in Horizons in Biblical Theology 38/2 (2016): 161-66	Sustainability Research
167	Chris Diehm	Philosophy	Research: Currently working on a book exploring the conservation significance of "connectedness to nature." Also recently involved in research on the topic of "de-extinction." Recently invited to contribute to an edited collection an essay on the philosophical aspects of the "in situ/ex situ" distinction in wildlife conservation.	Sustainability Research
168	Jason Zinser	Philosophy	Biological Possibilities. This paper develops work from my dissertation regarding modal concepts (possibility and necessity) and how they apply to evolutionary biology. These concepts play an important role in the physical sciences and in broader philosophical concerns, but are often neglected (for various reasons) in the biological sciences. My aim is to address this omission and explicate the role for these concepts in biological explanations.	
169	Jason Zinser	Philosophy	The Story of the Moral. In this paper, I am providing a (hopefully unique) evolutionary account for our moral intuitions. More specifically, I am addressing the intuition that some actions are right or wrong "externally" or "intrinsically," apart from any particular desires (in other words, the intuition that some moral claims are sanctioned or prohibited externally). I argue that while there are potential selective benefits for the behaviors that result from this intuition, there are non-selective explanations for the <del>textbook nature of the intuition</del> .	
170	Jason Zinser	Philosophy	Animals, Pleasures, and Animal Pleasures. Great attention has been given to animal minds regarding pain in order to ground our ethical obligations to animals. However, in utilitarian calculations, pain has to be weighed against pleasures. Thus, I will be exploring animal pleasures with regard to domesticated animals in order to properly formulate utilitarian calculations regarding our treatment of animals.	
171	Luke Whitmore	Philosophy	Luke Whitmore is in the final stages of a book project, tentatively titled: God and Place: Understanding Kedarnath At the Beginning of the Twenty-First Century. In this work he tells the story of Kedarnath, famous Himalayan home of the Hindu god Shiva, before and after the catastrophic flooding of 2013. This disaster, an event of national importance in India, makes a compelling case for the centrality of the religion in twenty-first century conversations about ecology, sustainability, climate change, tourism, and development, particularly in the Global South. For centuries, people have understood Kedarnath (located in the region famously connected to the Chipko or "tree-hugging" movement) as a place where Shiva is part of the place itself. Accordingly, local, regional, and national stakeholders today understand the disaster and its impact as both a consequence of unregulated and unsustainable development and as an indication of a growing disconnect with the natural Himalayan environment and its resident divine powers. This understanding now shapes the political, economic, and cultural processes of reconstruction, processes that are essentially part of a state-wide referendum on what needs to be "sustained" and how human-nature relationships in the future ought to proceed. The book aims to both chronicle this situation and emphasize the important overlap of religion (a category which, for most scholars of religion, includes "spirituality") with vectors of critical importance in the 21st century such as disaster, development, climate change, and sustainability.	Sustainability Research
172	Shanny Luft	Philosophy	Research focuses on popular culture, including film and video games.	
173	Adriana Durbala	Physics and Astronomy	Extragalactic astronomy – isolated galaxies, compact groups of galaxies, isolated pairs of galaxies, the role of interactions (environment) in galaxy formation and evolution	
174	Brad Hinaus	Physics and Astronomy	Transport measurement of superconducting junctions, computationally based calculation of critical currents of Josephson Junctions in non-uniform magnetic fields.	
175	Chris Verzani	Physics and Astronomy	Laser interactions with Rubidium vapor: Pulsed (femtosecond laser) light, and continuous-wave lasers. •Electromagnetic Induced Transparency in Rubidium vapor •Doppler Free Saturation Absorption measurements	
176	Ken Menningen	Physics and Astronomy	Hydrogen energy	
177	Ken Menningen	Physics and Astronomy	Diamond thin film deposition	
178	Ken Menningen	Physics and Astronomy	Laboratory astrophysic	
179	Ken Menningen	Physics and Astronomy	Lamp technology	
180	Maryam Farzaneh	Physics and Astronomy	Thermal and Optical characterization of photonic and electronic micro-device	
181	Maryam Farzaneh	Physics and Astronomy	All-optical thermoreflectance microscopy technique	
182	Maryam Farzaneh	Physics and Astronomy	Study of thermal transients in multilayer structures	
183	Maryam Farzaneh	Physics and Astronomy	Long-term Reliable, High-power Midwave-Infrared Quantum Cascade Lasers-SBIR Phase II (funding source: U.S. Dept. of Defense/U.S. Army Research Office) (Intraband, LLC submitted in collaboration with UW-Madison) (Year 2 of 2)	
184	Mick Veum	Physics and Astronomy	Liquid crystals: surface tension, phase transitions, surface-induced order, calorimetry, optical reflectivity.	
185	Palash Banerjee	Physics and Astronomy	Nanoscale magnetism	



186	Palash Banerjee	Physics and Astronomy	Scanning probe microscopy - techniques and instrumentation Ultrasensitive force detection techniques o <u>Magnetic Resonance Force Microscopy (MRFM)</u>	
187	Sebastian Zamfir	Physics and Astronomy	<u>Extragalactic astronomy - phenomenology of AGN, Quasar spectroscopy, Radio-loud/Radio-quiet dichotomy, galaxy formation and evolution.</u>	
188	Brad Mapes-Martins, Ph.D.	Political Science Department	During the next four years I will continue to extend my existing research on the politics of climate change communication to the issue of water-resource in Wisconsin. In the field of environmental policy there is ongoing debate about the impact of decreasing national-level identification with the label 'environmentalist' on public support for natural resource and environmental protection policies. First, at the state-level, I ask how individual political identification (e.g., partisanship, group consciousness) motivates behavioral responses (including non-response) to contamination of private residential wells, an area not covered by existing federal water law. Over the next few years, I will be <u>undertaking interviews in the Central Sands region as well as other areas with significant deterioration of subsurface water quality</u>	Sustainability Research
189	Brad Mapes-Martins, Ph.D.	Political Science Department	Second and in conjunction with my individual research area, I am currently working with Kevin Masarik (UW-Extension, CNR) to decrease exposure rates of mothers, prenatals, and neonates to nitrates, nitrites, lead, manganese, and pathogens from private wells. We are pursuing multiple external grants. While he provides expertise in geohydrology and water testing, I design and measure the success of our interventions for increasing response and compliance rates for private-well testing during gestation. We work with researchers at the Medical College of Wisconsin to handle implementation of the designed interventions. We are currently in negotiations with researchers at the National Farm Medicine Center (Marshfield Clinic Research Institute) and to <u>expand our sample area.</u>	Sustainability Research
190	Jennifer N. Collins	Political Science Department	I am using my sabbatical to finish a book manuscript titled, Social Movements and Radical Populism in the Andes. I have a book contract with Lexington Books and the <u>deadline for submission of the completed manuscript is September 2018.</u>	
191	John Blakeman	Political Science Department	I also have another book project in the works, tentatively titled "Religious Liberty and Space." The focus of the book, which builds on an earlier article I wrote titled "Space and Church-State Controversies in America," is on how legal and political disputes over religious liberty often have a geographical spatial dimension. For instance, some religious liberty disputes might focus on a religious group's request for zoning variances to build a new church, or an individual or group's request to use public property for religious reasons, or even conflicts over regulating land that religious groups deem vital to their spirituality. My work will focus on the extent to which geography, and space,	
192	Mert Kartal, Ph.D.	Political Science Department	I have authored an article published in the Journal of European Public Policy3 on the issue of international organizations and democratization, which was my first publication as <u>LNU/SP faculty.</u>	
193	Mert Kartal, Ph.D.	Political Science Department	I have two other papers analyzing the impact of the European Union (EU) on corruption control and protection of ethnic minorities in its Central and Eastern European (CEE) <u>members. I plan on submitting these papers to quality journals in 2019.</u>	Sustainability Research
194	Mert Kartal, Ph.D.	Political Science Department	I have two other papers analyzing the impact of the European Union (EU) on corruption control and protection of ethnic minorities in its Central and Eastern European (CEE) <u>members. I plan on submitting these papers to quality journals in 2019.</u>	Sustainability Research
195	Saemyi	Political Science Department	Over the next four years, I will focus on examining Civic Engagement and Political Behavior of Asian Americans in the Midwest. The overall goal of this project is to see how this rapidly growing racial group engages in Midwestern communities, if Asian Americans' civic and political behaviors are different in the Midwest than the West and Northeast, and how Asian Americans in the Midwest influence electoral outcomes. Specifically, this project will investigate: (1) the degree of community involvement among Asian Americans; (2) the roles of Asian American-serving nonprofit organizations in civic voluntarism and policy advocacy; and (3) the political participation and voting choices of Asian Americans in contemporary American politics. This project will consist of two components. In the first phase of this project, semi-structured, face-to-face interviews will be conducted with the leaders of Asian American organizations in Midwestern states: Illinois, Michigan, Minnesota, Ohio, Wisconsin, and Indiana (in order by Asian American population; the 2012 National Asian American Studies). Next, a mass online survey will be administered to investigate the civic and political participation of Asian Americans who are the members of the organizations studied. The IRB approved this project, but I am currently working on modifying the survey questionnaire. I expect to launch the survey at the end of Fall 2017 after the IRB approval on minor modifications. My goal is to publish two or three peer-reviewed journal articles, and ultimately develop it for the book publication. This study will further understanding of the civic and political behavior of this understudied population and describe the conditions of the Asian American <u>community in the new destination of the Midwest.</u>	Sustainability Research
196	Amy Gervasio	Psychology	Emotions and dance	
197	Craig Wendorf	Psychology	Invariance testing with respect to gender and culture <u>Wendorf – Practical examples of new statistics in promoting change in statistics curricula</u>	
198	Debbie Palmer	Psychology	Personal connections with faculty, staff, and classmates and their links to engagement <u>Palmer – Use of systems theory to address Type 1 diabetes management</u>	
199	Heather Molenda-Figueira	Psychology	Effects of developmental exposure to bisphenol-S on anxiety and reproduction in rats <u>Molenda-Figueira – Influences of sexual orientation on preferences for masculine traits across the menstrual cycle</u>	
200	Jenna Maygar	Psychology	Therapist's guide to positive psychological interventions <u>Maygar – Widening the diagnostic focus: A case for including human strengths and environmental resources</u>	Sustainability Research
201	Jiaxi Want	Psychology	Post retirement life satisfaction <u>Want – Medical decision making in older adults</u>	
202	Jody Lewis	Psychology	Content analysis of cat petfinder profiles in Wisconsin <u>Lewis – Psychosocial factors that differ between students and how they influence college retention</u>	
203	Mark Ferguson	Psychology	Norm Change and Support for Hunting in Wisconsin (*) Ferguson - Religious Leadership and Sustainable Behavior (*) Ferguson - Carbon Feedback and Sustainable Behavior (*) <u>Ferguson – Allogometric Effect of Difficulty on Sustainable Behavior (*)</u>	Sustainability Research
204	Patrick Conley	Psychology	Attention and visual search <u>Conley – Video games and video processing</u>	
205	Robert Nemeth	Psychology	Belief in technosalvation as a barrier to climate-change mitigating behavior (*)	Sustainability Research
206	Maggie Watson	School of Communication science and disorders	Reading teacher survey: I am in the process of surveying reading teachers across the country to determine the extent they collaborate with SLPs in the schools.	
207	Maggie Watson	School of Communication science and disorders	I am in the beginning stages of surveying SLPs and their use of oral motor exercises for purposes of remediating speech sound errors.	
208	Maggie Watson	School of Communication science and disorders	I am also in the beginning stages of surveying University clinical supervisors: I am interested in how much they collaborate with public school SLPs when serving children who <u>are also receiving speech language services in the public schools.</u>	
209	Rebecca Henning	School of Communication science and disorders	Along with my graduate students, I am conducting research on: hearing conservation and risk for noise-induced hearing loss in music students	
210	Rebecca Henning	School of Communication science and disorders	The relationship between central auditory processing abilities and hearing aid benefit/satisfaction in adults	
211	Beth Kinslow	School of Health Care Professions	Researches emergency care in athletic training, including concussions; and investigates teaching strategies for athletic training.	
212	Daniel McCarty	School of Health Care Professions	Researches a wide range of health conditions in human populations with a focus on obesity related disorders (Type 2 diabetes, Metabolic Syndrome) and obesity prevention	
213	Heidi Wincentsen	School of Health Care Professions	Researches regulatory environments and clinical quality in healthcare.	Sustainability Research
214	Holly Schmies	School of Health Care Professions	Researches concussion policies and protocols in athletic training and investigates teaching strategies for athletic training students.	
215	Jodi Olmsted	School of Health Care Professions	Researches dental hygiene practices (e.g. improving sealant retention, biofilms in dentistry) and teaching methods for health sciences.	
216	Lorraine Zoromski	School of Health Care Professions	Researches teaching methods that develop emotional intelligence skills in healthcare providers	
217	Rebecca Sommer	School of Health Care Professions	Researches the molecular mechanisms by which developmental exposures to pollutants (TCDD, PCBs, arsenic) adversely effects reproductive and endocrine systems of mice <u>and rats to determine possible implications for human health.</u>	Sustainability Research
218	Reed Brooks	School of Health Care Professions	Researches best practices in online education in Clinical Laboratory Science	

219	Cuiting Li	School of Health Promotion and Human Development	College student cheating study.	
220	Cuiting Li	School of Health Promotion and Human Development	Culture class impact project.	
221	Cuiting Li	School of Health Promotion and Human Development	Suzuki Head Start program evaluation	
222	Jasia Steinmetz	School of Health Promotion and Human Development	Publications S. Steinmetz J. "The Industrialized Food System and Food Insecurity" in Promoting Biodiversity in Food Systems. CRC Press. in press	Sustainability Research
223	Kelly Schoonaert	School of Health Promotion and Human Development	Peer Reviewed Presentations Submitted a. American Association of Family and Consumer Sciences Annual Conference, Mindfulness Mapping: Cultivating Creativity in the Classroom, Submitted in Fall 2017 for July 2018. Accepted	
224	Sterling Wall	School of Health Promotion and Human Development	Li, C., Wall, S., & Hicks, J. (2017). Healthy babies: Best early feeding practices and measuring behavior change.	
225	Tom Wetter	School of Health Promotion and Human Development	Research project with Dietetic students, "Effect of Beetroot Juice in Recreational Female Runners". Received IRB approval and data collection started Nov. 2017.	
226	Tom Wetter	School of Health Promotion and Human Development	Collection and analysis of Healthy American Data	Sustainability Research
227	Various	Sociology and Social Work	Staff preferred not to share research details, but concidered not sustainable	
228	Various	Sociology and Social Work	Staff preferred not to share research details, but concidered not sustainable	
229	Various	Sociology and Social Work	Staff preferred not to share research details, but concidered not sustainable	
230	Various	Sociology and Social Work	Staff preferred not to share research details, but concidered not sustainable	
231	Various	Sociology and Social Work	Staff preferred not to share research details, but concidered not sustainable	
232	Johnathan Rivin	Soil & Hazardous Waste Educ. Center	Utilization of Vermicompost and Vermicompost Tea to Improve Ginseng Production (funding source: USDA)	Sustainability Research
233	Bryant Scharenbroch	Soil & Waste Resources	A Soil Management Toolbox for Urban Trees	Sustainability Research
234	Daniel Keymer	Soil & Waste Resources	Investigating the Potential for Septic System Modifications to Reduce Microbial Induced Corrosion of Concrete	Sustainability Research
235	Jacob Prater	Soils	Ginseng and Vermicompost – Using vermicompost and vermicompost tea to reduce pesticide use and enhance ginseng productivity. (USDA-SCBG funded)	Sustainability Research
236	Jacob Prater	Soils	Fate and Transport of 17a-ethinylestradiol (EE2) and BPA in soil – How does the presence of biosolids colloids affect the movement and degradation of EE2 and BPA in soil? (IARD funded)	Sustainability Research
237	Jacob Prater	Soils	Provisional Ecological Site Descriptions – develop a site assessment tool (statewide) to predict the type and productivity of WI ecosystems based on soil and other abiotic factors. (USDA-NRCS funded)	Sustainability Research
238	Michele Miller	Student Involvement & Employment	Alternative Winter Break	
239	Joshua Raabe	Water Resources	Tree Drop Study	Sustainability Research
240	Joshua Raabe	Water Resources	Maximizing Capture of Lake Sturgeon and Other Species in the Fish Elevator on the Menominee River	Sustainability Research
241	Justin VanDeHey	Water Resources	Genetic Origin and Movements of Lake Sturgeon in the St. Louis River and Western Lake Superior	Sustainability Research
242	Rachel E. Schultz	Water Resources	Monitoring Wetland Reserve Program Easements in Wisconsin/NRCS Easement Monitoring	Sustainability Research
243	Jenny L. Christopher	WI Center for Environmental Ed	GROUP FEEDBACK IN THE CLASSROOM PROMOTES HOME ENERGY CONSERVATION	Sustainability Research
244	Jordan King & Rebecca Franzen	WI Center for Environmental Ed	Environmental Literacy in Environmentally themed Higher Education Cources	Sustainability Research
245	Joy Kacoroski	WI Center for Environmental Ed	Children's Attitudes, Behaviors, and Comprehension While Using iPads in Outdoor Environmental Education Programs	Sustainability Research
246	Joy Kacoroski, Kendra Liddicoat, Steve Kerlin	WI Center for Environmental Ed	Children's Use of iPads in outdoor Environmental education programs	Sustainability Research
247	Jeremy Solin	WI Center for Environmental Ed	Artistry and Forestry: LEAF Professional Development for Art Teachers	Sustainability Research
248	Brian Sloss	WI Cooperative Fishery Research	Delineation of Natural Boundaries of Muskellunge in the Great Lakes and the Effects of Supplementation on Genetic Integrity of Remnant Stocks (Year 2 of 2)	
249	Daniel Isermann	WI Cooperative Fishery Research	Effects of 2, 4-D Treatments to Control EWM on Fish & Zooplankton in Northern WI Lakes	Sustainability Research
250	Daniel Isermann	WI Cooperative Fishery Research	Genetic Assessment of Seven Fish Species Above and Below the Wisconsin River Dam at Prairie du Sac	
251	Daniel Isermann	WI Cooperative Fishery Research	Treaty Fishery Data Analysis: Evaluating Fisheries Management Methods in Northern Wisconsin	Sustainability Research
252	Daniel Isermann	WI Cooperative Fishery Research	Safe Operating Space for Walleye: Adapting Inland Recreational Fisheries for Climate Change (Year 2 of 5 years of funding: 6 year project) (subrecipient: UW-Madison)	Sustainability Research
253	Daniel Isermann	WI Cooperative Fishery Research	Movements of Lake Sturgeon After Upstream Passage Through Two Dams on the Menominee River	Sustainability Research
254	Daniel Isermann	WI Cooperative Fishery Research	Population Characteristics and Movements of Smallmouth Bass in the Menominee River	Sustainability Research
255	Daniel Isermann	WI Cooperative Fishery Research	Brook Trout Movements in the West Branch of the Wolf River on the Menominee Indian Reservation (funding source: Dept. of Interior/USFWS/Bureau of Indian Affairs)	Sustainability Research
256	Daniel Isermann	WI Cooperative Fishery Research	Fisheries Analysis Center	Sustainability Research
257	Daniel Isermann	WI Cooperative Fishery Research	Evaluation of muskellunge habitat use and suitability in Green Bay and tributaries (funding source: U.S. Dept. of Interior/USFWS/Fox River/Green Bay NRDA Trustee Council)	Sustainability Research
258	Daniel Isermann	WI Cooperative Fishery Research	Wisconsin Cooperative Fishery Research Unit-Base Funds	Sustainability Research
259	Daniel Isermann	WI Cooperative Fishery Research	Wild Age-0 Salmonid Abundance and Outmigration in Wisconsin Tributaries to Lake Michigan (Year 2 of 3)	Sustainability Research
260	Janice Kerns	WI Cooperative Fishery Research	Electrofishing catchability of young-of-year muskellunge in northern Wisconsin lakes	Sustainability Research
261	Wes Larson	WI Cooperative Fishery Research	Developing genomic resources for Great Lakes cisco to facilitate species identification and investigate adaptation	Sustainability Research
262	Wes Larson	WI Cooperative Fishery Research	Development of a genetic linkage map for cisco Coregonus artedii to facilitate integrated studies of adaptive diversity - RWO 31	Sustainability Research
263	Wes Larson	WI Cooperative Fishery Research	Support for the Molecular Conservation Genetics Lab (funding source: Dept. of the Interior/U.S. Fish & Wildlife Service)	Sustainability Research
264	Paul Fowler	WI Institute for Sustainable Technology	An Investigation of the Market for Chlorogenic Acid Isolated from Potato Processing Residual Streams Including Size and Requirements for Entry	Sustainability Research

265	Paul Fowler	Wisconsin Institute for Sustainable Technology	<p>Innovation and entrepreneurship for new uses of vegetable production and processing residuals  Wisconsin ranks second among U.S. states for harvested acreage and total production of processing vegetables and third for production value. Production and processing of these crops contributes more than \$6 billion in economic activity in Wisconsin and supports nearly 30,000 jobs. This proof of concept center (POCC) focuses on a heavily agricultural, nine-county area of central and south-central Wisconsin.  The POCC seeks to demonstrate feasibility of commercializing valuable chemicals from residual materials from harvesting and processing of specialty vegetable crops. Vegetables and their residuals contain numerous chemicals such as vitamins, proteins, sugars and lipids, waxes and other aliphatic and aromatic compounds such as antioxidants. Our strategy is to identify and target chemicals that may provide important functionality in non-food industrial uses.  Led by the Wisconsin Institute for Sustainable Technology, a unit of the College of Natural Resources at the University of Wisconsin-Stevens Point, project participants include Del Monte Foods, which has three vegetable processing plants in the project region; Heartland Farms, a Central Wisconsin-based potato and vegetable grower; Pavelski Legacy Partners, which manages and invests in a diverse portfolio of companies; Midwest Food Processors Association; and the Wisconsin Potato and Vegetable Growers Association. The Wisconsin Economic Development Corporation and WiSys Technology Foundation, a nonprofit supporting the University of Wisconsin in technology transfer; will provide advice on commercialization strategies.  We anticipate that this project will have a substantial impact on the region's important agricultural production and processing industries. This impact will be seen in three areas:</p> <ol style="list-style-type: none"> <li>1. Formation of an interconnected web of entrepreneurs that includes producers, processors, researchers, investors and economic development professionals, who together generate ideas for innovation to take advantage of the region's assets;</li> <li>2. An increase in total economic activity arising from the derivation of new products from agricultural processing residuals and by-products;</li> </ol>	Sustainability Research
266	Jacob Straub	Wildlife Department	Effectiveness of wetland conservation programs in the glacial habitat restoration area of Wisconsin	Sustainability Research
267	Jacob Straub	Wildlife Department	Wood Duck Demography in Wisconsin (funding source: U.S. Dept. of Interior/U.S. Fish & Wildlife Service) (Year 1 of 3)	Sustainability Research
268	Jacob Straub	Wildlife Department	Population monitoring and information needs for management and conservation of sea ducks on the Great Lakes (subrecipient: The Research Foundation for SUNY)	Sustainability Research
269	Jason Riddle	Wildlife Department	NEON Bird Sampling (funding source: National Science Foundation)	Sustainability Research
270	Jason Riddle	Wildlife Department	Evaluating the Factors Impacting Juvenile Survival of Greater Prairie-Chickens in Central Wisconsin (funding source: Dept. of the Interior/U.S. Fish and Wildlife Service) (Year 3 of 3)	Sustainability Research
271	Kevin Russell	Wildlife Department	Assessing the Impacts of White-Nose Syndrome on Bat Communities in the Midwest	Sustainability Research
272	Kevin Russell	Wildlife Department	Assessing Forest Biodiversity and Woody Biomass Harvesting	Sustainability Research
273	Scott Hygnstrom	Wildlife Department	Assessing the impacts of WNS on bat communities in the Midwest (Year 2 of 2) - RWO 29 (original PI was Kevin Russell)	Sustainability Research
274	Scott Hygnstrom	Wildlife Department	The Northern Long-eared Bat as a Threatened Species: Potential Impacts of Maternal Roost Protection on the Harvest of Forest Products in the Upper Midwest (funding source: USDA-NIEA) (Year 1 of 2)	Sustainability Research
275	Shawn Crimmins	Wildlife Department	Evaluating occupancy models and aerial surveys for river otters in Wisconsin (funding source: U.S. Dept. of the Interior/U.S. Fish & Wildlife Service; Year 1 of 4)	Sustainability Research
276	Shelli Dubay	Wildlife Department	Effects of Forced Re-nesting on Reproduction of a Reintroduced Population of Whooping Crane ( <i>Grus americana</i> ) (GLNF CESU)	Sustainability Research
277	Shelli Dubay	Wildlife Department	Whooping Crane Forced Renesting to Prevent Population Extinction (GLNF CESU)	Sustainability Research
278	Tim Ginnett	Wildlife Department	Habitat Use by Reintroduced Elk at Black River Falls, Wisconsin (Year 4 of 4) (funding source: U.S. Dept. of Interior)	Sustainability Research
279	Mike Olsen	World Languages and Literatures	Research on the implementation of edTPA; research on how teacher talk effects second language acquisition; research on acquisition of grammar	
280	Mike Olsen	World Languages and Literatures	Playwright; research on Camus and Sartre	
281	Tobias Barske	World Languages and Literatures	Research on the implementation of edTPA; textbook writing; research on language use (pragmatics)	
282	Tom Leek	World Languages and Literatures	Research on German science fiction literature; research on history of language	