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UM to Host Summer Institute on Scientific Teaching June 4-7

May 31, 2018

MISSOULA – The University of Montana will host the Mobile Summer Institute on Scientific Teaching June 4-7, on the UM campus.

The institute focuses on evidence-based active learning strategies to improve student understanding and success in STEM courses. Twenty-four UM faculty members from 15 departments will work collaboratively during the institute to create engaging new content for their fall courses. They will develop an original, peer-reviewed course module that incorporates backward design and learning activities on the topic of their choice. Participants will be named Scientific Teaching Fellows by Yale’s Center for Teaching and Learning at the end of the workshop.

The institute is sponsored by the Howard Hughes Medical Institute, the Yale Center for Teaching and Learning, and the Helmsley Charitable Trust. It is part of a national professional development effort for faculty members to provide intensive and ongoing support for student learning in STEM courses.

“Our faculty are deeply committed to creating engaging learning experiences for our students, and we are thrilled to have this opportunity for some of them to get to work with national experts on augmenting their courses,” said Amy
Kinch, director of UM's Faculty Development Office.

Learn more about the UM event at http://bit.ly/2xoaqDL.

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**Contact:** Mark Grimes, cell biologist, UM Division of Biological Sciences, 406-243-4977, mark.grimes@mso.umt.edu; Amy Kinch, director, UM Faculty Development Office, 406-243-5897, amy.kinch@umontana.edu.
MISSOULA – A University of Montana graduate student has won an International Peace Scholarship for $12,500 from the Philanthropic Educational Organization.

Sofia Reis, who expects to complete the International Educational Leadership Ed.D. in the Phyllis J. Washington College of Education and Human Sciences in 2021, earned the prestigious scholarship.

Reis, of Lisbon, Portugal, earned a bachelor’s degree in international relations from the University of Lisbon and a master’s degree in sciences of education from the New University
of Lisbon.

For two decades, Reis served as associate director of the Portuguese Association of Private and Independent Schools. As their representative, she collaborated with the European Council of National Association of Independent Schools. In ECNAIS, she had the opportunity to work regularly with educational organizations and visit schools in 24 European countries.

"I am interested in exploring trends and tensions in the function of national educational systems," Reis said. "I aim to integrate the new knowledge I am acquiring in the International Leadership Program with my former professional experience to create an analytic framework to re-conceptualize schools in a global perspective."

Reis has found the American component to her analytic framework rewarding.

"My curiosity is piqued by the differences, my perception shaped by the diversity and my educational values enriched by the experience of being an international student at UM," she said.

For more information call Laure Pengelly Drake, coordinator for the UM Writing Center programs, external scholarships and advising, at 406-243-6140, email laure.pengellydrake@umontana.edu or visit https://www.umt.edu/external-scholarships.

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**Contact:** Laure Pengelly Drake, coordinator, UM Writing Center programs, external scholarships and advising, 406-243-6140, laure.pengellydrake@umontana.edu.
UM Student-Produced TV Program Completes 25th Season

May 29, 2018

MISSOULA – University of Montana School of Journalism students just produced the 25th season of “Business: Made in Montana,” a television program featuring Big Sky State-based businesses.

The new program will premiere at 7:30 p.m. Thursday June 7, across the state on MontanaPBS. Encore presentations are scheduled for 10 a.m. Sunday, June 10, and 2 a.m. Monday, June 11.

This episode introduces viewers to Art Castings of Montana in Belgrade, West Paw Design in Bozeman, Yellowstone Agate Jewelry in Livingston, Smoot Honey Company in Power and Zombie Tools in Missoula.

Art Castings of Montana is a fine art bronze foundry that casts pieces of art ranging in size from small to monumental.

West Paw Design uses five full-time employees and an impressive team of home-sewers to make safe, high-quality dog and cat toys.
Yellowstone Agate Jewelry specializes in handmade jewelry crafted from local stones, primarily Montana Agate. The business is headquartered on banks of the Yellowstone River.

Smoot Honey Company produces around 600,000 pounds of honey per year. Every drop of honey is packed and produced locally.

Zombie Tools in Missoula features 10 skilled blade makers working full time, making and shipping a couple thousand unique and affordable blades around the world – from Alaska to Alabama and Norway to Tasmania.

Students produced the program during fall semester 2017. Junior journalism student Dillion Sierra hosts the program.

“Business: Made in Montana” is made possible with support from the Greater Montana Foundation. Founded by pioneer broadcaster Ed Craney in 1958, GMF provides grants to improve the quality of communications of important issues through electronic media. More information is available online at http://www.greatermontana.org.

MontanaPBS comprises KUFM-TV in Missoula and KUSM-TV in Bozeman and is a service of UM and Montana State University.

Contact: Kevin Tompkins, UM School of Journalism assistant professor, 406-243-4088, kevin.tompkins@umontana.edu.
UM Announces New Certificate in Native American Studies

May 29, 2018

MISSOULA – Anyone interested in Native American history, policy and culture now can earn a Native American Studies Certificate at the University of Montana.

The new, 12-credit program through UM’s College of Humanities and Sciences is designed for individuals who want to acquire broader knowledge, appreciation and academic skills. It is open to nondegree seeking individuals, as well as students in any major who seek to complement their area of study with interdisciplinary skills.

The overarching purpose of the certification is to offer students a basic understanding of the dynamics of working with and in Native American communities.

“A certificate in Native American studies in the state of Montana represents and essential sphere of study,” said Michelle Guzman, an academic adviser in the Native American Studies department at UM. “Many tribes in the state of Montana employ non-Native people who have very little knowledge or exposure to working with Native Americans or in Native communities.”
Montana is unique, with seven federally recognized reservations throughout the state.

"Having the ability to understand political, cultural and governmental policies pertaining to Native Americans and how these policies directly affect their communities and resources, is a valuable asset in understanding the sovereignty of Native Americans in the United States and assist in improved personal and professional relationships for certificate holders," Guzman said.

For more information or to apply, visit [http://hs.umt.edu/nas/academics/certificate.php](http://hs.umt.edu/nas/academics/certificate.php).

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**Contact:** Willie Brown, office administrator, UM Department of Native American Studies, 406-243-5851, willie.brown@umontana.edu; Michelle Guzman, academic adviser, 406-243-5834, michelle.guzman@mso.umt.edu.
MISSOULA – The year 1968 was one of the most memorable and historic in the history of our country. Many events still stand out 50 years later – the assassinations of Martin Luther King Jr. and Robert Kennedy, the Tet Offensive during the Vietnam War, U.S. Olympians raising their fists during the medal ceremony, Apollo 8 circling the moon and the chaos of the Democratic National Convention in Chicago.

And then there was the music – Johnny Cash performing at Folsom State Prison, the Beatles traveling to India, The Who begin recording the rock opera “Tommy” and seminal bands the The Yardbirds, Cream, Led Zeppelin and Yes performing for the first time.

Montana Public Radio will celebrate all things 1968 with special programming and music June 2-9.

“1968 Fifty Years Later’ is a weeklong celebration from our station,” said MTPR program director Michael Marsolek. “Our talented producers will present the music of the times across many genres of music. There will be special shows and content every day featuring the artists and bands, as well as some features from TV, Broadway and films.”
Programming highlights will include:

- A “Monday Music Special” at 8 p.m. from Beau Baker and an “Into the Groove” show with Joan Richarde at 11 p.m. Monday, June 4.

- “Freeforms” each day will feature music from the great rock and pop albums released that year, including records by Elvis Presley, Aretha Franklin, Steppenwolf, Fleetwood Mac, Ray Charles and many more.

- Newly formed bands like Yes, Rush, Led Zeppelin, King Crimson and Crosby, Stills and Nash will be featured throughout the week.

- “Get To That” at 8 p.m. Tuesday, June 5, and “What I Like About Jazz” at 8 p.m. Wednesday, June 6, will feature the jazz, folk, roots and bluegrass music from 1968.

- Even “Morning Classics” will get into the action with some special music – although some of it might be from 1868.

Montana Public Radio is a public service of the University of Montana and broadcasts on 89.1 Missoula (KUFM); 91.5 Missoula (K218AI); 91.9 Hamilton (KUFN); 89.5 Polson (KPJH); 90.1 Kalispell, Whitefish, North Valley (KUKL); 90.5 Libby (KUFL); 91.7 Kalispell (K219BN); 101.3 Swan Lake (K267BJ); 91.3 Butte (KAPC); 91.7 Helena (KUHM); 91.7 Dillon (K219DN); and 89.9 Great Falls (KGPR). Learn more at http://mtpr.org/.

Contact: Michael Marsolek, MTPR program director, 406-243-4096, michael.marsolek@msou.umt.edu.
MISSOULA – Montana Public Radio reporter Nicky Ouellet and the podcast “SubSurface: Resisting Montana’s Underwater Invaders” continues to receive national awards. The podcast earned the Storytelling Award for small newsrooms from the Associated Press Media Editors earlier this month.

“We knew we needed to be inventive and play with the full power of audio storytelling to make our audience want to tune in to a 30-minute episode about a tiny bivalve,” Ouellet said. “It’s a huge honor to be recognized by our peers for our efforts.”

“SubSurface” examines what could happen if Montana fails to stop the coming invasion of zebra and quagga mussels threatening the state’s water bodies. Ouellet reported on how invasive mussels changed the Great Lakes region and what
those implications could mean for Montana's future, as well as what the state already is doing to detect and prevent their spread. The five-episode series launched late last year and is available on iTunes and online at http://mtpr.org.

The annual contest honors excellence and innovation in journalism, reflecting the Associated Press Media Editors’ mission of fostering newsroom leaders, empowering journalists to succeed and cultivating ideas that work. APME national board members and top editors at the Associated Press comprise teams of judges. Winners will be recognized Sept. 11-12 at a conference on news leadership in Austin, Texas.

Earlier this year, Ouellet received an award from the Whitefish Lake Institute for the series, and she is a finalist for the Montana Broadcasters Association/Greater Montana Foundation E.B. Craney Awards for radio non-commercial program of the year.

Montana Public Radio is using what it learned producing “SubSurface” to create a new podcast series this fall, “Richest Hill,” which will tell the story of the past and hoped-for future of Butte, Montana – one of America’s biggest Superfund sites.

Montana Public Radio is a public service of the University of Montana and broadcasts on 89.1 Missoula (KUFM), 91.5 Missoula, city (K218AI), 91.9 Hamilton (KUFN), 89.5 Polson (KPJH), 90.1 Kalispell, Whitefish, North Valley (KUKL), 90.5 Libby (KUFL), 91.7 Kalispell, city (K219BN), 101.3 Swan Lake (K267BJ), 91.3 Butte (KAPC), 91.7 Helena (KUHM), 91.7 Dillon (K219DN) and 89.9 Great Falls (KGPR). Learn more at http://mtpr.org.

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Contact: Nicky Ouellet, Montana Public Radio reporter and podcast producer, 406-730-8502, nicky.ouellet@msou.montana.edu.
MISSOULA – At the University of Montana, 2,638 students made the spring semester 2018 Dean’s List or President’s 4.0 List. To qualify, students must be undergraduates, earn a semester GPA of 3.5 or higher and receive grades of A or B in at least nine credits. Students who receive any grade of C+ or below or no credit (NC/NCR) in a course are not eligible.

The students listed in the link below made UM’s spring semester 2018 Dean’s List or the President’s 4.0 List. Double asterisks after a name indicate the student earned a 4.0 GPA. A single asterisk indicates a GPA greater than 3.5 but less than 4.0.

This information is grouped by hometowns and is available online at http://bit.ly/2lSUmDd.

Contact: UM Registrar’s Office, 406-243-5600, registration@umontana.edu.
MISSOULA – Western wildlife and one of the most enduring subjects in visual art – the horse – will be celebrated in two new exhibitions at the Montana Museum of Art & Culture.

The exhibitions “Horse” and “Denizens: Wildlife on the Western Frontier” will be on display from Thursday, June 7, to Saturday, Oct. 6, in the Paxson and Meloy galleries of the Performing Arts and Radio/Television Center at the University of Montana.

MMAC Curator of Art Jeremy Canwell selected works for “Horse” that trace the vast array of media in which artists have sought to capture the spirit of this iconic animal – from early photographs to ceramic,
paint on canvas, pen and ink, ceramic, steel and textile. The variety of scale and style on display speaks to the profound artistic spirit inspired by these ancient animals.

“The drive to make images of wild horses surely formed as a response to their elusive nature,” Canwell said. “From ancient cave paintings in France to contemporary ceramics and photography, the art historical record is awash in horses. That lasting urge to make art arguably descended from our ancestral desire to possess their wildness.”

Horses played a foundational role in the history of the American West. From Spanish breeds used by Native Americans and early explorers, to early mining industry pit ponies and today's professional rodeo lines, equines play a critical role in human work and leisure.

“Horse” traces the art and culture inspired by what was merely, at first, the most pragmatic and efficient form of travel and power available to early Americans. Included are works from the MMAC Permanent Collection, several loans from private collectors and works by artists Aden Arnold, Rudy Autio, Sheryl Bodily, MaryAnn Bonjorni, Fra Dana, Monte Dolack, Nick Eggenhofer, Stephanie Frostad, George Gogas, Michael Horse, Louise Johns, Bruce Lubo, Alfred Jacob Miller, Henry and Peter Meloy, Sheila Miles, Frank Morbillo, Charles E. Morris, Eadweard Muybridge, Ace Powell, Karen Rice, Jaune Quick-to-See Smith, Ben Steele, Ted Waddell and Olaf Wieghorst.

“Denizens: Wildlife on the Western Frontier” elucidates the breathtaking variety of the fauna of the American West of the 18th and 19th centuries. The spectrum of indigenous wildlife on the American frontier – from wolverines and bison to eagles and rattlesnakes – will be on view through 64 vintage engravings by legendary artists, including John James Audubon, Karl Bodmer, Alfred Jacob Miller and Frederic Remington. Through a generous loan from UM’s Philip L. Wright Zoological Museum, corresponding animal specimens also will be on view. “Denizens” was curated by Lee Silliman.

The exhibitions will open with a reception from 5 to 7 p.m. Thursday, June 7, in the lobby of the PAR/TV Center.

Programs presented in conjunction with the exhibitions will include:

- **7 p.m. Monday, June 11** – MMAC and the Roxy Theatre presents “The Horse Whisperer” at 718 Higgins Ave., $8/$7 for students and seniors.

- **7 p.m. Monday, July 9** – MMAC and the Roxy Theatre presents “Black Stallion,” $8/$7 for students and seniors.

- **7 p.m. Monday, Aug. 13** – MMAC and the Roxy Theatre presents “National Velvet,” $8/$7 for students and seniors.
New Exhibitions at UM to Highlight Frontier Horses, Wildlife - UM News - University Of Montana

- 7 p.m. Monday, Sept. 10 – MMAC and the Roxy Theatre presents “Seabiscuit,” $8/$7 for students and seniors.

- 7 p.m. Thursday, Sept. 13 – MontanaPBS presents special screening of “3 Miles an Hour” with featured horseman Smoke Elser and producer John Twiggs in the Masquer Theatre, PAR/TV Center. Free and open to the public.


- 5:15-6:15 p.m. Thursday, Sept. 27 – Gallery Talk: Art Professor MaryAnn Bonjorni will present in the Meloy Gallery.


- 7 p.m. Monday, Oct. 8 – MMAC and the Roxy Theatre presents “The Man from Snowy River,” $8/$7 for students and seniors.

MMAC’s summer hours are from noon to 3 p.m. Wednesday, Thursday and Saturday and from noon to 6 p.m. Friday. Academic year gallery hours are from noon to 3 p.m. Tuesday, Wednesday and Saturday and from noon to 6 p.m. Thursday and Friday. The museum is closed UM holidays. The museum is open to the public with a suggested $5 donation. Docent tours are available with advance notice. For more information call 406-243-2019 or visit http://www.umt.edu/montanamuseum/.

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Contact: Barbara Koostra, Suzanne and Bruce Crocker director, Montana Museum of Art & Culture, 406-243-2020, barbara.koostra@mso.umt.edu; Jeremy Canwell, MMAC curator of art, 406-243-2019, jeremy.canwell@mso.umt.edu.
New Exhibitions at UM to Highlight Frontier Horses, Wildlife - UM News - University Of Montana
MISSOULA – The We Are Montana in the Classroom initiative and Corvallis Middle School will collaborate on a career exploration day for the school's fifth-graders from 1:30 to 3:30 p.m. Friday, May 25, in the school gymnasium.

Co-created with the University of Montana Broader Impacts Group, the event is designed to engage students with career pathways in their community – particularly in high-priority workforce sectors such as manufacturing, small business, health care and forestry/environmental management.

BIG’s Bitterroot advisory group helped produce the event, which is of a collective-impact initiative powered by the Martin Family Foundation.

Participating career role models are:

- Joe Butsick, U.S. Forest Service
- Allie Hagwood, American Welding & Gas

May 23, 2018
Students will rotate through stations, where role models will lead activities and demonstrations and share stories from their career and educational experiences.

“Role models who students get to meet make the future possibilities a reality for kids,” said Kristina Berger, head teacher at Corvallis Middle School. “It’s one thing to tell kids what’s out there; it’s another to interact with someone living it. This opportunity plants a seed for kids and their futures.

The career exploration day is part of a multiyear effort to build community capacity for role-model engagement. As part of this effort, BIG collaborates with local schools and its Bitterroot advisory group to develop a database that educators can use to connect their students with role models and mentors. Following a pilot year, the database will launch online in fall 2018.

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**Contact:** Holly Truitt, director, UM Broader Impacts Group and spectrUM Discovery Area, 406-243-4828, holly.truitt@umontana.edu.
Two UM Journalism Graduate Students Receive Crown Reporting Fellowships

May 23, 2018

MISSOULA – The University of Montana School of Journalism has awarded fellowships to two student-mentor teams that will work to tell richer stories about climate change, communities and conservation in the Glacier National Park area of Montana and Canada, known as the Crown of the Continent.

The 2018 Crown Reporting Fellows are Breanna Roy and Samantha Weber, both graduate students in the master's program in environmental science and natural resource journalism. Photographer and former National Geographic editor-in-chief Chris Johns will mentor Roy. Graham Lee Brewer, an Oklahoma-based reporter specializing in Native American issues, will mentor Weber.

The process of choosing fellows begins with a community dinner each winter that brings scientists, journalists, nonprofit leaders and journalism students together to discuss emerging issues that are critical to the Crown region.
“The Crown Reporting Project gives our students the chance to learn while doing under the guidance of extraordinary professionals in one of the great landscapes of North America,” said Associate Professor Nadia White, journalism graduate program director.

Students pitch story ideas in a competition for the annual fellowship. Each team will explore stories related to different communities in the Crown of the Continent. Stories are published or printed in a commercial news outlet by December each year.

Weber’s print piece will consider efforts by the Blackfeet Nation to harness a surge in eco-tourism. Challenges and opportunities that are unique to Native communities are often left out of stories about the economy, Weber said.

“The generous timeline allowed by the Crown Reporting Fund gives me sufficient time to ensure I cover this story thoroughly,” Weber said. “This is not a job for parachute journalism.”

Roy’s video short will focus on a unique subgroup of pine trees that may prove resistant to climate-change-related threats to the alpine ecosystems of northern Montana and southern Canada.

“This is an incredible opportunity to tell an important environmental story,” Roy said. “The fellowship will allow me to dive deep into a scientific discovery at the microscopic level and interpret what it could mean for endangered trees in the Crown and beyond.”

The Crown Reporting Project is a donor-supported opportunity in partnership with High Country News. It is inspired by the work and memory of philanthropist Ted Smith, who felt stories about communities and conservation across Montana’s large landscapes would improve the way people manage and engage with the state’s wildest places.

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Contact: Nadia White, graduate program director and associate professor, UM School of Journalism, 406-243-2227, nadia.white@umontana.edu.
UM Dining Welcomes Ducks to Campus - UM News - University Of Montana

UM News

May 22, 2018

MISSOULA – UM Dining recently acquired six Welsh Harlequin ducks. The new delegates patrol the South Avenue Garden – adjacent to the Iron Griz restaurant – managing pests and weeds, and providing eggs and natural fertilizer.

"Welsh Harlequins are good layers and foragers. They also tend to be calmer and friendlier than other breeds," UM Dining Garden Manager Anastasia Orkwiszewski said.

This is important, since part of the ducks' initiation to campus will be a photo shoot with the Grizzlies' mascot, Monte.

The ducks arrived in the mail this April mere hours after hatching. Orkwiszewski cared for the flock in her basement until they were mature enough to inhabit the “duck house” and pool, designed and constructed in the garden by UM
Dining staff and students.

Sixty Missoula preschoolers, teachers and parents – along with numerous members of the UM community – welcomed the adolescent ducks to their new home in an event held April 18. The festivities included a supervised meet-and-greet for kids, games and refreshments from the Iron Griz. Attendees also selected names for the ducks: Poppy, Hazel, Kiwi, Mabel, Etta and Duckleberry Finn.

According to Orkwiszewski, the ducks will provide a unique educational opportunity for community visitors and UM Dining garden and sustainability interns, in addition to supplying duck eggs to UM Dining chefs.

“I don’t know of any restaurant in Missoula that has its own laying poultry, so that’s special,” Orkwiszewski said.

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Contact: Trevor Lowell, UM Dining director of sustainability, 406-243-4042, trevor.lowell@mso.umt.edu.
MISSOULA – A team of scientists led by University of Montana cell biologist Mark Grimes has identified networks inside lung cancer cells that will help understand this cancer and fight it with drug treatments.

The paper, published as the cover article of the May 22 issue of Science Signaling, sheds light on how a new class of drugs called HSP90 inhibitors – which are currently in clinical trials – works to fight cancer. It is the first large-scale study to analyze three different kinds of protein modifications simultaneously while also employing new methods that involve mathematical and computational approaches and networks to analyze these data.

The paper, titled “Integration of protein phosphorylation, acetylation, and methylation datasets to outline...
lung cancer signaling networks is available online at

http://stke.sciencemag.org/content/11/531/eaaq1087.

Compared to all other cancers, lung cancer is still the most deadly, despite reductions in recent years due to decreases in cigarette smoking. Lung cancer is expected to kill about 150,000 people in the United States this year, according to the American Cancer Society.

The study began with scientists at Cell Signaling Technology, who collected a large amount of data from lung cancer cells. The approach to analyze the data builds on previous work from the Grimes laboratory (see Missoulian May 13, 2015; http://bit.ly/2jv7nQ5).

“Proteins modify each other in different ways inside cells to convey signals,” Grimes said. “The signals tell cells to divide, differentiate or die. Cancer is many diseases, and many types of cancer are caused by screwed up cell signaling mechanisms. This study defines these signaling pathways with greater precision and integrates pathways that use different protein modifications.”
The study looked at 45 different lung cancer cell types and compared their modified proteins to normal lung tissue. To make sense of the large amount of data, sophisticated pattern recognition techniques – including machine-learning algorithms – were used, and patterns in protein modifications were combined with protein interaction networks to define cell signaling pathways in lung cancer cells.

Grimes’ research team includes three UM students and two other UM faculty members: Travis Wheeler from the Department of Computer Science and Ekaterina Smirnova from the Department of Mathematical Sciences. The team also included computational biologist Avi Ma’ayan and his team from Icahn School of Medicine at Mount Sinai, New York; and scientists from Cell Signaling Technology, Danvers, MA led by Michael Comb.

Grimes emphasized that this research is a team effort.

“Progress is made when people with different skills come together to tackle a hard problem,” he said. “It was gratifying to involve UM graduate and undergraduate students Lauren Foltz, Jeremiah Gaiser and William Cook, who each contributed uniquely to the project.”

Due to the complexity of the information, Grimes offers an analogy to get across the main points of the paper:

“Cells are bags of proteins and other components like DNA. Different components are contained within intracellular compartments walled off by membranes. Imagine the cell as a house, and people within are proteins. Different groups of people spend more time in different places, depending on their jobs in the house. In the cell, proteins modify one another by attaching phosphate, methyl and acetyl groups, which is akin to people attaching different balloons to one another. The balloons attract particular people to come together, depending on which balloon is carried. This sends a signal to the people attracted to the balloon holder to move within the house and engage in some activity. For example, someone hands you a red balloon and you assemble a group of cooks to go to the kitchen and make a meal.

“We can represent the way people interact with one another in the house as a network. Most of the people in the house interact with many other people over the course of a year, so the network of interactions looks like a hairball, which is not very informative. We want to unravel the hairball, picking out pathways through the network that depend on who gets the balloons. This is where mathematical tricks and machine-learning algorithms come into play. These pattern-recognition techniques help us to identify clusters of people who get different balloons - clusters of proteins that become modified - in similar ways. We then look at interactions only among those clusters of people. In other words, the clusters are used to filter the interactions. This cluster-filtered network is a much simpler network, and informs us about signaling pathways specific to lung cancer cells.”

Grimes continues, “To take the analogy further, a tumor is like a house that turns itself into a large factory that uses up the community’s energy resources in a residential zone of single-family dwellings. Researchers are like detectives who examine the people holding three different types of balloons simultaneously in many different factories (tumor cell types). The detectives use this information to trace pathways of communications that are common when a house breaks the community rules.

“The cluster-filtered network identifies the bad guys and their collaborators so we have a better idea who should be arrested by law enforcement to stop the house from expanding in the wrong neighborhood,” Grimes said. “In other words, this study gives us a better idea which proteins to target with drugs to arrest different types of lung cancer.”
Contact: Mark Grimes, cell biologist, UM Division of Biological Sciences, 406-243-4977, mark.grimes@mso.umt.edu.
MISSOULA – The Humanities Institute at the University of Montana announced it will fund more than a dozen faculty research projects for the 2018-19 academic year. It also awarded two UM students with writing awards and two instructors with grants to support book publishing.

Undergraduate Ryan Garnsey’s essay “Dostoyevsky: Definite Circumstances and the Character of an Individual” won the Richard Drake Writing Award for Student Essays in the Humanities.

The award honors excellence in writing and the humanities in UM’s College of Humanities and Sciences. The graduate student winner was Dwight Curtis for the essay “The Play Within the Play: Eschaton, Hamlet and ‘Theater Boundaries’ in ‘Infinite Jest.’”

The Humanities Institute awarded UM Professor Anya Jabour in the Department of History its 2018 Baldridge Grant. The fund will support publisher fees for her forthcoming book, “Sophonisba Breckinridge and Women’s Activism in Modern America.”
Associate Professor Jody Pavilack in UM's history department was the 2017 Baldrige Grant recipient for the Spanish translation of her book “Mining for the Nation: The Politics of Chile’s Coal Communities from the Popular Front to the Cold War.”

Additionally, the Humanities Institute announced its support of the following faculty research projects:

- Irene Appelbaum, anthropology associate professor, “Grammar and Discourse in Kutenai Tales.”
- Leora Bar-el, anthropology associate professor, “The Dialects of Butte, Montana.”
- David Beck, Native American studies professor, “Bribed with Our Own Money: Federal Misuse of Tribal Funds.”
- Abhishek Chatterjee, political science assistant professor, “Property Rights in Colonial India.”
- Anya Jabour, history professor, “NEH Summer Institute on ‘Suffrage in the Americas.’”
- Emilie LeBel, music assistant professor, “Women Buddhist Esoterics in Art Song: A Song Cycle for Soprano and Electric Guitar.”
- Clary Loisel, Spanish professor, “Gender Construction in 20th-century Portuguese Literature.”
- Quan Manh Ha, English associate professor, “Vietnamese Short Stories about the Vietnam War: A Translation and Anthology.”
- Tobin Shearer, African American Studies associate professor, “Prayerful Protest: The Use of Religious Resources in Anti-Abortion Protests.”

The Humanities Institute is dedicated to supporting humanities scholarship across all disciplines, departments and programs at UM. Led by faculty, the institute brings new and exciting research opportunities to both students and faculty, and it offers public lectures about the projects it supports.

Contact: Nathaniel Levtow, director, UM Humanities Institute, 406-243-2845, humanities.institute@mso.umt.edu.
MISSOULA – Paula O'Neil had no idea what was waiting for her under the piece of tissue paper on the table as family gathered, watching in anticipation, at her daughter’s home in Evergreen, Colorado, on Mother’s Day this year. Her arthritic fingers...
trembled as she lifted the paper to reveal a diploma, stole and tassel. The 98-year-old could not fully comprehend what she was looking at, until her daughter, Laurie O'Neil, told her:

“Well, you just graduated from college yesterday from the University of Montana.”

The moment Paula dreamed of for nearly 70 years finally had arrived. And also included in her Mother’s Day surprise was an edited proof of her most recent and final book.

Paula, who has been a writer most of her years, never graduated college.

“That is her life’s regret,” Laurie said.

Frances Pauline Meagher – “Paula” – began writing in middle school and wrote her latest book three years ago, when she turned 95 years old. The collection of short stories, called “Once Upon a Village,” is a 120-page novella based on the town and people of East Hatley, Quebec, where she lived when she was 13.

Paula’s parents emigrated from England and Ireland, and the first tale, “The Irish Story,” describes how she ended up in the French Provinces of Canada. One evening, she heard her parents arguing and eavesdropped on them. She remembered her father saying, “I’m going back to Ireland. I can’t stand New York, and it’s where I was meant to be.”

Two weeks later, her father had left, and Paula soon found herself on a plane to East Hatley, an idyllic little village now boasting 750 residents. She lived with her aunt and uncle for two years, and eventually her parents got back together, choosing to buy a house there.

After living in Canada, Paula moved to Long Island during high school and, in 1946, decided to attend the University
of Montana in Missoula to major in English and minor in French.

When Paula took the entrance exam for the beginning-level French class, Laurie said she “flat-out failed it.” Paula visited the professor’s office.

“I speak French,” she told him. “And I’m wondering if I can take the second-level French.”

As the story goes, the professor decided to give her a chance, and she passed the second, harder test. She didn’t know the grammar associated with the first one, but she was so fluent, she could begin the second-level class.

It was at UM that Paula met her husband, Richard O’Neil, who enrolled at the same time. He served in World War II and graduated in June 1949 with a bachelor’s degree in business administration.

Laurie recalls one story of her parents from before they were married – the two of them were waiting for a bus to downtown Missoula. When it arrived, Paula immediately started pushing her way to the front, even though there were only around 10 people riding.

“She was, after all,” Laurie said, “from New York.”

Paula attended UM from 1946 to 1948. When she married Richard and became pregnant in 1948, she had to withdraw from classes at UM. The rule then – as it was at most universities – was a student could not be pregnant and attend school.

She moved to Ohio and then Colorado with Richard, who worked in sales for a school bus company. She had a son, Dennis, in 1949; Laurie came in 1953.

But that didn’t stop Paula. For nearly 15 years – until December 1960 – she took correspondence classes from UM, earning 73 credits, enough for an Associate of Arts with a minor in French, but just shy of an English degree.

Paula receiving her degree now, seven decades later, is a historic event.

“Awarding a degree from 1948, 70 years after it was earned, is unprecedented for the Registrar’s Office,” said Joseph Hickman, UM registrar. “A few years ago we awarded a degree to a student 40 years after she had earned it, but this new record is unlikely to be surpassed.”

Through the years, Paula remained a prolific writer, publishing in House Beautiful, Highlights for Children, American Music Teacher and more. She wrote most in the 1960s, specializing as a short-story and article writer. She won a short story competition from the Writer’s Digest with her fictional story “Love is a Picnic.” She even won a washer and dryer from White King laundry detergent company for a slogan she wrote.

Paula also taught piano for nearly five decades, studying into her 70s at Colorado State University.

Laurie said her mother’s steadfast spirit defines her.

“If you want to typify my mother in five words they would be motivated, inspiring, slightly stubborn – or willful, as she
calls it – creative and persistent,” she said.

Laurie followed in her mother’s footsteps, teaching voice for many years and now writing full time in all genres and winning multiple awards for her ghostwriting and editing. She even married a writer.

“When I sit down and take somebody, by my words, to a different place or time, it’s just magical,” she said.

One of Paula’s darker stories in her latest collection inspired by East Hatley talks about a mentally challenged girl who ends up beating her father to death. When Laurie, horrified, asked Paula if it were true, she said the people were true.

“She gave me that knowing little smile, and I think that’s where her fiction meets reality,” Laurie said.

Today, Paula still uses a computer to email and do research, although typing with arthritic hands has become difficult for her. Laurie said Paula finally receiving a degree and validation from UM for her work is huge.

“Knowing the circumstances about why Paula left UM in 1948 without graduating makes being able to award her degree now even more meaningful,” Hickman said.

As for Paula, receiving her diploma marks a final chapter in the story of her own life.

“No more regrets for Mom for never having graduated,” Laurie said. “Her life is complete.”

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Contact: Laurie O’Neil, graduate’s daughter, 303-525-5567, cpaslaurie@gmail.com.
MISSOULA – The Jeannette Rankin Peace Center will host a series of community dialogues with the 2018 Hubert H. Humphrey Fellows from the University of Montana.

The talks are scheduled for select Thursdays between May 31 to July 19. They will be held from 5:30 to 7 p.m. at the center, located at
519 S. Higgins Ave. in Missoula, and are free and open to the public.

The 17 Fellows are sponsored by the U.S. State Department. They arrived this in April for a four-month intensive English language and cultural program at UM’s English Language Institute.

The Fellows are midcareer professionals from a variety of fields – from finance and banking to environmental policy.

“Each Humphrey Fellow will speak in an open forum about issues facing his or her country and profession,” ELI Chair Jeanie Castillo said. “The public will be invited to come, and the Humphrey Fellows will engage the audience in dialogue about important issues in addition to giving presentations. This will provide a means for the Fellows to share their work and cultural backgrounds with the Missoula community.”

The home countries of the Humphrey Fellows are Benin, Burma (Myanmar), Central African Republic, Chile, Colombia, Cuba, Ecuador, Georgia, Iran, Israel, Mongolia, Nepal, Niger, Senegal and Togo.

“There are more Fellows out there, but these are the ones who needed support with their English first,” said Sarah Bortis, ELI program coordinator. “They’re all really high-level people. They’re selected for their leadership potential and commitment to public service. They’ve all dedicated their lives to tackling big problems. They’re going on to do grand things.”

Bortis and Castillo coordinate and oversee the arrival and stay of the Humphreys at UM. ELI serves as a long-term English program to assist Fellows with their transition to the United States and the English language.

The Fellows will stay for four months at UM and then go on to their academic internships at universities such as Boston University; University of California, Davis; Cornell University; the Massachusetts Institute of Technology; Penn State University; American University; and Emory University.

In addition to their classroom English, each Fellow partners with a UM faculty member who shares their same field of interest. They also are matched with a community partner who will be a Missoulian ambassador.
Community service is an integral part of the Fellows’ Fulbright exchange activity.

“The Humphreys will do a service learning component where they’ll work in a nonprofit agency in Missoula and learn through service,” Bortis said. “The community dialogues at the Jeannette Rankin Peace Center are an opportunity for the Humphrey Fellows to learn and practice their presentation skills in English. They will present about their country and their work, then open it up to dialogues.”

Later this summer, the Fellows also will enjoy field trips to Glacier and Yellowstone national parks. For a list of Fellow bios, visit http://bit.ly/2L76slH.

The presentation schedule follows:

- **May 31** – “Human Rights, Law and Finance” by Nino Elbakidze (Georgia), Coumba Ndiaye (Senegal) and Hadiza Gagara Dagah (Niger)

- **June 14** – “Natural Resources and Agriculture” by Hossein Babazadeh (Iran), Tuguldur Enkhtsetseg (Mongolia) and Marlen Navarro (Cuba)

- **June 21** – “Education and Technology” by Zull-kifuly Moumouni (Benin) and Serge Adouaka-Ngoimale (Central African Republic)

- **June 28** – “South America” by Luisa Marillac Trujillo Cordova (Ecuador), Jenny Urrutia Viveros (Chile) and Jorge Forero Gonzalez (Colombia)

- **July 5** – “Urban Planning and Human Resources” by David Luna (Colombia), Jesus Monreal Carvajal (Mexico) and Yasmira Calderon (Cuba)

- **July 19** – “Public Health Policy” by Nyan Win Myint (Burma/Myanmar), Lal Kunwar (Nepal) and Kokou Alinon (Togo)

The Hubert H. Humphrey Fellowship Program, funded by the U.S. Department of State and administered by the Institute of International Education, brings young and midcareer professionals from designated countries to the United States for a year of nondegree graduate-level study, leadership development and professional collaboration with U.S. counterparts.

Founded in 1993, ELI at UM serves international students seeking to improve their English language and academic skills in order to pursue studies at UM or another institution of higher education, or for professional training purposes. The institute, housed within UM’s Global Engagement Office, provides academic and summer instruction, as well as tailored short-term English language and American culture training programs. ELI has taught English to students from more than 44 countries, with a majority of students continuing their studies at UM or other American institutions.

The Jeannette Rankin Peace Center is a nonprofit community-run organization in Missoula founded on the principles of fostering peace through cultural understanding and communication.
Humphrey Fellow Dialogues Scheduled at Jeannette Rankin Peace Center - UM News - University Of Montana

Contact: Alex Sydorenko, program assistant, UM Global Engagement Office, 406-243-2288, alexander.sydorenko@mso.umt.edu; Jeanie Castillo, ELI chair, 406-243-6235, jeanie.castillo@umontana.edu.
Missoula – The Davidson Honors College at the University of Montana recognized nearly 100 graduating students with its University Scholar Distinction, one of the highest academic honors available. More than 25 percent of these graduates were named “Most Outstanding Senior” in their major.

The students recognized as outstanding seniors represent every discipline and dozens of majors across the UM campus. This year’s graduates already are finding meaningful careers and continuing education options in Montana and around the world.

The DHC Outstanding Seniors include:

- Jebediah Rosen, Victor, Bachelor of Science in computer science, professional option with mathematics minor
- Cassidy White, North Branch, Minnesota, Bachelor of Science in biology, ecology and organismal biology concentration
- Sarah Bortis, Missoula, Bachelor of Arts in East Asian studies
- Bethany Crouse, Helena, Bachelor of Science in biochemistry
• Michael Logan Reid, Missoula, Bachelor of Arts in sociology, emphasis in criminology
• Claire Babcock, Bozeman, Bachelor of Arts in sociology
• Katerina Hall, Missoula, Bachelor of Arts in mathematics
• Soren Ormseth, Great Falls, Bachelor of Arts in mathematics, concentration in pure mathematics
• Rachel Dickson, Missoula, Bachelor of Arts in environmental studies
• Jennifer Zundel, Billings, Bachelor of Arts in Spanish
• Breann Watterson, Fort Collins, Colorado, Bachelor of Arts in history
• Chase Greenfield, Ventura, California, Bachelor of Arts in philosophy, Bachelor of Arts in English with an emphasis in literature
• Sarah Gaulke, Fairfax, Virginia, Bachelor of Science in wildlife biology, terrestrial concentration
• Steven Allen, Bozeman, Bachelor of Science in business administration, minor in computer science
• Lione Helen Clare, Sitka, Alaska, Bachelor of Science in resource conservation, emphasis in climate change studies
• Anisa Ricci, La Crescenta, California, Bachelor of Arts in women’s, gender and sexuality studies
• Rachel Steffen, Kalispell, Bachelor of Arts in anthropology, concentration in cultural and ethnic diversity
• Colton Kyro, Seattle, Washington, Bachelor of Science in ecological restoration, aquatic emphasis
• William Sutherland, Niwot, Colorado, Bachelor of Arts in physics, computation physics option
• Nicole Evans, Billings, Bachelor of Arts in music education
• Victoria Gifford, Agoura Hills, California, Bachelor of Science in biochemistry, concentration in health professions

Some of the scholars’ post-graduation plans include: working for the Federal Deposit Insurance Corporation as a financial institution specialist in Sacramento, California; attending the University of Michigan’s Ph.D. program in communication studies; working as outreach assistant for Brian Injury Alliance of Montana; serving in the Peace Corps in Uganda as a community health educator; joining Disney as a software engineer in Los Angeles; and attending UM’s master’s program in economics as a teaching assistant and UM BRIDGES Fellow.

These remarkable students from across the country and state chose to attend the Davidson Honors College because of its excellent academic programming, its tailored approach to student support and career development, and the access it provides students for need- and merit-based scholarships for research, internships and travel.

“I am so thrilled with this year’s graduating class of University Scholars who embody the DHC’s ongoing commitment to academic innovation, professional development and an exceptionally welcoming community,” DHC Dean Brock Tessman said.

For more information on this year’s class of University Scholars or the Davidson Honors College, call Kaetlyn Cordingley, DHC director of career development and community partnerships, at 406-243-2579 or email kaetlyn.cordingley@umontana.edu.

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Contact: Kaetlyn Cordingley, director of career development and community partnerships, UM Davidson Honors College, 406-243-2579, kaetlyn.cordingley@umontana.edu.
Renowned Artworks from Copper King’s Collection Find Permanent Home at UM

May 18, 2018

MISSOULA – Works from famous painters – including Jean-Baptiste-Camille Corot, Jean-Charles Cazin, Jules Dupré, Jean-Honoré Fragonard, Thomas Gainsborough, and a sculpture attributed to Donatello – will soon belong to the Montana Museum of Art & Culture’s Permanent Collection at the University of Montana.

The works share a common thread: They once belonged to the estate of “Copper King” William Andrews Clark, a former Montana senator with expensive taste and the wealth to satisfy it.

Born to Scotch-Irish parents in Pennsylvania in...
1839, he eventually made his way out West working the roles of farmer, teacher, soldier, prospector, woodcutter, teamster, cattle driver, grocer, mining engineer, banker and eventually a real estate tycoon and a railroad magnate.

Through his latter jobs, he rose in notoriety to become one the most powerful and influential 19th-century Americans. His peers included John D. Rockefeller, J.P. Morgan and Andrew Carnegie. He built the most expensive home ever assembled in New York City.

When he died in 1925, his fortune was calculated at more than $200 million – equivalent to nearly $3 billion in contemporary terms.

His family donated his eclectic collection of primarily 19th-century French artwork to the private Corcoran Art Gallery in Washington, D.C., after the Metropolitan Art Museum in New York turned it down.

The collection included almost 200 paintings, plus sculptures, tapestries, rugs, antiquities, stained-glass windows and a Louis XVI-era salon. Architect Charles Platt designed a new wing for the Corcoran to house the collection built with funds donated by the Clark family. The Clark Wing was completed and opened to the public in 1928.

Due to financial challenges, the Corcoran – which sat across the street from the White House – was shuttered in 2014, and nearly 20,000 works from its collection were distributed.

The National Gallery of Art received the largest donation at 8,596 pieces, and the NGA was tasked with distributing the balance of the works they did not accession into their own collection to other, mostly D.C.-area institutions. However, an exception was made for a few important pieces to transfer to Montana and into the Permanent Collection of UM’s MMAC.

“There were a number of ways the Clark Wing could have gone, but there was a sense of obligation to do something for the state from which Sen. Clark came,” said Harry Hopper, chairman of the Corcoran Board of Trustees. “Sen. Clark and his family, through their century-plus commitment to and love for the Corcoran, hold a very special place in the history and life of the Corcoran. For these works to find a permanent home in Montana is perfect.”
Renowned Artworks from Copper King’s Collection Find Permanent Home at UM - UM News - University Of Montana

MMAC will receive three paintings by Jean-Baptiste-Camille Corot, two by Jean-Charles Cazin, one by Jules Dupré, one by Jean-Honoré Fragonard, one my Thomas Gainsborough and a sculpture attributed to Donatello.

MMAC Director Barbara Koostra said the museum is deeply grateful to MMAC Advancement Council member Nancy Matthews, a longtime Washington, D.C., resident who now resides in Missoula.

“She was instrumental in advancing the idea that some of these treasures come to Montana over the last two years,” Koostra said. “The wealth that Clark acquired to purchase these pieces was in large measure derived from Montana soil and citizens. We are pleased they will be in Montana permanently.”

The nine works will be featured in an inaugural exhibition from Oct. 18 to Feb.16, 2019. Programs highlighting the life and times of Clark will be featured, and MMAC will host its opening reception from 5 to 7 p.m. Thursday, Oct. 18.

MMAC is home to more than 11,000 works of art. An international collection, it belongs to all Montanans. MMAC’s summer hours are from noon to 3 p.m. Wednesday, Thursday and Saturday and from noon to 6 p.m. Friday. Academic year gallery hours are from noon to 3 p.m. Tuesday, Wednesday and Saturday and from noon to 6 p.m. Thursday and Friday. The museum is closed Sunday, Monday and UM holidays. The museum is open to the public with a suggested $5 donation. For more information call 406-243-2019 or visit http://www.umt.edu/montanamuseum/.

Contact: Barbara Koosta, Suzanne and Bruce Crocker director, Montana Museum of Art & Culture, 406-243-2019, barbara.koostra@mso.umt.edu; Jeremy Canwell, MMAC curator of art, 406-243-2019, jeremy.canwell@mso.umt.edu.
Renowned Artworks from Copper King’s Collection Find Permanent Home at UM - UM News - University Of Montana

news@umontana.edu
MISSOULA – The University of Montana School of Journalism has established a new media lab to serve as a center of innovation offering skills-based journalism training to members of the public interested in multimedia storytelling and audience engagement.

Journalist and filmmaker Anne Bailey, a former professor and graduate of the school, will become the founding director of the Montana Journalism Media Lab. This new center marks a major expansion for the century-old journalism school, which regularly ranks among the top 10 journalism schools in the nation.

The School of Journalism will create the lab as an interdisciplinary center that will make the school and its work more accessible to other units on campus and to storytellers.
Journalism Dean Larry Abramson announced the new effort, saying it would help the school push boundaries and expand its influence beyond the student body.

“For over a century, we have trained some of the nation’s top journalists,” Abramson said. “Under Anne Bailey's leadership, the Montana Journalism Media Lab will help train scientists, entrepreneurs and businesspeople how to tell their stories in the most effective way.”

Plans for the lab include workshops taught by experts outside of Missoula who will share their expertise in subjects such as web design, data visualization and social media strategy. The Media Lab is supported by private donations, Abramson said, and will be the focus of major fundraising efforts in the years to come.

Bailey graduated from the School of Journalism master’s program in 2008. She has taught and practiced journalism all over the world: from a smartphone video course for Libyans in Rome to a multimedia journalism project in the Democratic Republic of the Congo. She has taught courses at the SALT Institute for Documentary Studies in Portland, Maine, and served as the Distinguished Anthony T. Pollner Professor at the UM School of Journalism in the spring of 2017. She also has filed regularly for the PRI news program “The World.”

As founding director, Bailey will have a strong voice in designing the lab and in finding initial partners.

“I'm excited to be in on the ground floor of this exciting opportunity,” Bailey said. “I believe the lab could make UM and Missoula a center for innovative media projects.”

The lab will be housed in Don Anderson Hall, the journalism school’s home on the UM campus.

Learn more at [http://www.jour.umt.edu](http://www.jour.umt.edu).
UM School of Journalism Launches Media Lab, Hires Founding Director - UM News - University Of Montana

Contact: Larry Abramson, dean, UM School of Journalism, 406-243-4001, larry.abramson@mso.umt.edu.
MISSOULA – Dr. Julie Wolter, department chair and professor in the University of Montana Department of Communicative Sciences and Disorders, recently received a perfect score on her National Institutes of Health grant to study language development and dyslexia in children.

In the competitive research funding world of NIH, where often less than 10 percent of national applications are even considered for review, Wolter learned that her team’s research scored the highest rank possible, earning the $4.5 million grant.

The NIH R01 grant will fund Wolter’s reading and language research in young elementary schoolchildren. The purpose of the five-year funded research is to investigate how children who struggle to talk develop the ability to read and write.
“I am thrilled that our international team’s years of collective and collaborative research efforts are receiving such recognition and large-scale external funding,” Wolter said. “This work is essential to developing effective national testing and teaching practices to assess, treat and prevent dyslexia in children with and without developmental language disorders.”

Wolter is no stranger to securing funding for research that serves the needs of school-age children with language and literacy disorders in Montana. In 2016 she was awarded a $1.25 million U.S. Department of Education grant, which is a collaboration with UM’s Rural Institute of Inclusive Communities. The grant funds and trains individuals in rural Montana and tribal communities to become speech-language pathologists and serve the speech, language, communication and literacy of individuals with such disorders throughout the state.

A practicing speech-language pathologist herself, Wolter grew up in Billings and moved away from Montana in the 1990s to pursue her graduate degree in speech-language pathology, as UM did not have a related training program at that time.

The speech-language pathology graduate program and related undergraduate communication sciences and disorders programs were reinitiated in 2008. Wolter recently returned to the state as an accomplished and established researcher and academician to become an active leader in UM’s Department of Communicative Sciences and Disorders.

Wolter said her colleagues are innovative, thriving and committed to serving children and adults statewide with language, literacy and communication disorders.

“It is my passion and goal to address the critical shortage in the speech-language pathology health profession field, specifically in rural Montana areas,” she said. “I feel honored to have the opportunity to work at the University of Montana, where I believe my service, teaching and research may provide immediate impacts on a large scale.”

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**Contact:** Julie Wolter, department chair and professor, UM Department of Communicative Sciences and Disorders, 406-243-2605, julie.wolter@umontana.edu.
Hydro Program Highlighted in STEM Education Event

May 16, 2018

Missoula – A video co-produced by a science educator with the University of Montana’s spectrUM Discovery Area was included in the 2018 STEM for All Video Showcase funded by the National Science Foundation.

The video is available online at http://bit.ly/2IkKfTr. The NSF showcase event is being held May 14-21.

The presentation, titled “Comp Hydro: Engaging Students in Using Computational Thinking to Understand Local Water Problems,” looks at an innovative high school curriculum project to teach students about using computer models to understand local water problems such as groundwater contamination or flooding. The Comp Hydro project was funded by NSF.

“Current flooding events around the state of Montana provide vivid evidence that water issues such as contamination and flooding are ubiquitous,” said Beth Covitt, head of science education research and evaluation with spectrUM. “Everyone needs to be able to understand how and why problems arise and how scientists learn about, address and communicate about water issues.”
She said Comp Hydro prepares high school students to be able to use computational models to understand and respond to water problems in their local area.

Now in its fourth year, the annual showcase is featuring over 200 innovative projects aimed at improving STEM learning and teaching that have been funded by the NSF and other federal agencies. During the weeklong event, researchers, practitioners, policymakers and members of the public view the short videos, discuss them with the presenters online and vote for favorites.

The theme for this year’s event is “Transforming the Educational Landscape.” Video presentations cover a wide range of topics, including science, mathematics, computer science, engineering, cyberlearning, citizen science, maker spaces, mentoring, informal learning, professional development, research and evaluation, Next Generation Science Standards and the Common Core.

The videos highlight initiatives for students of all ages – from kindergarten through graduate school – as well as those for adult learners. Last year’s STEM for All Video Showcase remains available and has received more than 51,000 unique visitors from over 189 countries.

Comp Hydro is a program of spectrUM, UM’s hands-on science center. Now in its 10th year, spectrUM serves more than 200,000 Montanans annually through in-museum and statewide mobile programming. SpectrUM is part of UM’s Broader Impacts Group, which harnesses the University’s research and creative scholarship to foster social mobility and a vibrant, homegrown workforce for Montana.

Contact: Beth Covitt, head of science education research and evaluation, spectrUM Discovery Area, 406-243-4828, beth.covitt@umontana.edu.
MISSOULA – Children and their families on the Flathead Reservation are invited to the first-ever Science and Tech Festival from 1 to 4 p.m. Saturday, May 19, at Salish Kootenai College’s Joe McDonald Center in Pablo. The event is free and open to the public.

The Science and Tech Festival is part of a collective-impact effort by the UM Broader Impacts Group (BIG) and its spectrUM Discovery Area, Salish Kootenai College, K-12 schools on the Flathead Reservation and Tech4Good, with funding from the U.S. Department of Education.

The event will feature Rube Goldberg machines developed by middle-school students from Arlee, Two Eagle River, Hot Springs, and Dixon schools.

“It’s amazing to watch students’ minds work,” said Beau Herman, a teacher in Hot Springs who partnered with
spectrUM on the project. "You can actually see the gears shifting when they step back and look at a problem they are having with one cause and effect on their Rube Goldberg device. Then when they figure it out, there is that 'Ah Ha!' moment, and it brings it all together."

Visitors to the festival also will explore interactive exhibits and hands-on activities led by spectrUM, Tribal Education, Flathead Lake Biological Station, role models with BIG's "We Are Montana in the Classroom" initiative and students from Salish Kootenai College.

The CSKT Education Department will host beading and drum-making activities and will lead tours through the K'wul 'I'tkin Maker Truck, a mobile, cultural makerspace co-created by spectrUM, SciNation and the tribes with funding from the National Science Foundation.

SpectrUM, its SciNation advisory group and the tribes collaborate on an array of programs designed to foster a homegrown, Native STEM workforce on the Flathead Reservation. In addition to the Science and Tech Festival, their year-round programming includes a Science Learning Tent at the Arlee Celebration and Elmo’s Standing Arrow Powwow, “Science Bytes” that embed hands-on STEM activities and role models at summer free-meal sites, in-school field trips and community family science nights and the Kwul 'I'tkin Maker Truck.

SpectrUM and SciNation’s community-based, collective-impact approach has garnered awards from the Montana Indian Education Association, the Noyce Foundation, the Simons Foundation and the Coalition for the Public Understanding of Science.

“Through collective-impact work with SciNation, the tribes, local K-12 schools and other STEM and higher education champions on the Flathead Reservation, we’re helping put students on the fast track to fulfilling careers in their home communities and beyond,” said spectrUM and BIG director Holly Truitt. “By co-creating with the local community, we’re collectively accomplishing what no single organization could on its own.”

Now in its 10th year, spectrUM Discovery Area is UM’s hands-on science center, serving more than 200,000 Montanans annually through in-museum and statewide mobile programming. SpectrUM is part of BIG, which harnesses the University’s research and creative scholarship to foster social mobility and a vibrant, homegrown workforce for Montana.

BIG and spectrUM are supported by an array of local and national funding sources, including the National Science Foundation, Montana NSF EPSCoR, NASA, the U.S. Department of Education, the Institute of Museum and Library Services, the U.S. Environmental Protection Agency, the Jane S. Heman Foundation and the Martin Family Foundation.

In Missoula, the public can visit spectrUM’s museum at 812 Toole Ave. from 11 a.m. to 5:30 p.m. Wednesday through Friday and 10 a.m. to 5:30 p.m. Saturday. Admission costs $3.50 per person.

More information about spectrUM’s engagement on the Flathead Reservation is online at http://spectrum.umt.edu/education/FlatheadIndRes.php. For more information or to book a school visit, call Jessie Herbert-Meny, spectrUM’s head of educational programs, at 406-243-4828 or visit http://www.spectrum.umt.edu.
Contact: Jessie Herbert-Meny, head of educational programs, spectrUM Discovery Area, 406-243-482, jessie.herbert@umontana.edu.
UM Health Science Symposium to Feature Student Air Quality Research

May 14, 2018

MISSOULA – The 14th annual Clean Air and Healthy Homes Environmental Health Science Symposium of Missoula will take place on the University of Montana campus from 10 a.m. to 2 p.m. Tuesday, May 15.

Over 150 high school students from seven schools across western Montana – including Helena, Libby, Corvallis, Anaconda and Missoula – will present findings from research projects on indoor air quality, which were conducted throughout the school year.

Students learned about risks associated with prolonged exposure to three major air pollutants: particulate matter, radon and carbon monoxide.

The event is an opportunity for the public to learn how students aim to address common indoor pollution issues within their communities. Student research focused on measuring air pollution in their homes, local businesses and schools. Top research projects will receive awards.

The symposium is hosted by the UM Center for Environmental Health Sciences, the Department of Chemistry and
the School of Public and Community Health Sciences. It will be divided into two parts: a group poster session and
PowerPoint presentations.

Posters will be on display in the main lobby of UM's Skaggs Building and in the North Underground Lecture Hall.
Presentations will take place between 10:00 a.m. and noon in the North Underground Lecture Hall. Awards will be
announced after lunch.

The Montana Department of Environmental Quality and the National Institute of Health’s Science Education
Partnership Award Program provide major funding and support for the event.

For more information call Naomi Delaloye, education coordinator for the UM Center for Environmental Health
Sciences, at 406-243-2046, email naomi.delaloye@umontana.edu or visit http://education.cehs.health.umt.edu/.

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**Contact:** Naomi Delaloye, education coordinator, UM Center for Environmental Health Sciences, 406-243-2046,
naomi.delaloye@umontana.edu.
UM Announces Degree Candidates for Spring Semester 2018

May 11, 2018

MISSOULA – The University of Montana congratulates the 2,083 students who are degree candidates for spring semester 2018.

The students who are UM degree candidates or have been awarded their degrees for spring semester 2018 are listed at http://www.umt.edu/urelations/info/deanslist.php. A PDF of in-state graduates listed by hometown is available at http://bit.ly/2rA8Hpd. A PDF of out-of-state students is available at http://bit.ly/2rC1LHn.

Graduates with “cum laude” after their name indicate a GPA of 3.4 to 3.69. “Magna laude” indicates a 3.7 to 3.89 GPA, and “summa laude” is 3.9 and above.

Official awarding of degrees and official honors designations are not made until degree candidates have completed their final term of enrollment and met all specific requirements.

UM’s Commencement ceremonies are scheduled for Saturday, May 12, at the Adams Center. Find more information about graduation ceremonies at https://www.umt.edu/registrar/students/commencement.php.

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MISSOULA – The University of Montana’s Blackstone LaunchPad Pursue Your Passion program celebrated the conclusion of the 2017-18 school year by awarding certificates to six outstanding women and two inaugural fellowships on May 2.

The women have spent the past year considering careers that harness their passions, diving into the unique entrepreneurial ecosystem in Montana and learning business fundamentals from dynamic community members. Five of the women applied for the two UM startup competitions – EPIC Pitch and the John Ruffatto Business Startup Challenge –
and three were selected as finalists out of more than 40 other applicants.

Pursue Your Passion, a student program designed to increase women’s participation in start-up competitions and entrepreneurship, has catalyzed exciting new opportunities for supporting female entrepreneurs in Missoula. The fellowships recognized two students for outstanding entrepreneurial work and vision.

The spring fellows are environmental studies graduate student Catie DeMets from Verona, Wisconsin, and psychology undergraduate Kassi Soelter from Billings. Both women were past finalists in UM’s EPIC Pitch Competition and the John Ruffatto Business Startup Challenge.

DeMet’s passion for sustainable food systems has led to her business idea for Mirthful Farm, a pizza farm that flips the farm-to-table concept to put the table back on the farm by hosting community nights with pizzas made with farm-fresh ingredients.

“This program showed me that I can be an environmental advocate, but I don’t have to make zero dollars to do that,” DeMets said. “I was welcomed by an entrepreneurial community that I did not know even existed.”

Soelter’s passion for French cuisine, discovered during her time spent as an au pair in France, led her to start Crepe Cuisine, a mobile crepe restaurant that serves traditional French crepes with a Montana twist. You can find Crepe Cuisine at the Missoula Farmers Market on Saturdays by the red Xs in the summer and at First Fridays by Five on Black.
“This fellowship makes a big impact for my business,” Soelter said. “The $500 will pay for permits that allow me to expand my business by serving crepes downtown on First Fridays.”

Each fellowship includes a $500 stipend, workspace at on the UM campus in the Gilkey Building and additional consultative support to continue work on a passion or business idea throughout the next year.

After the call went out last fall to raise $1,000 to fund two fellowships, members of the Montana community funded these fellowships in a matter of days, surpassing the goal by nearly three times and sustaining the fellowships for three years.

Pursue Your Passion, launched in 2015, continues to grow and expand under the leadership of Program Director Morgan Slemberger. The program has supported more than 40 students and led to the creation of several female-owned businesses in the Missoula community.

“Pursue Your Passion is an exemplary collaboration between the University of Montana and the community,” Slemberger said. “Montanans, particularly Missoulians, have supported this program with time and money in order to create entrepreneurial opportunities for our future female leaders to grow.”

The program will offer a one-semester course this fall, in partnership with UM’s Davidson Honors College, to become an entry point to a multiyear experience available to UM students at any level throughout their academic career. The course is designed to strengthen team connections, develop 21st-century skills, practice creative problem solving and engage with female change-makers in Montana and beyond. Through this course students will gain access to the Pursue Your Passion program, network and be eligible to apply for the fellowship.

Registration is open for the one-credit fall 2018 course. More information about the program is online at http://www.umt.edu/passion.

Blackstone LaunchPad at UM is a center for entrepreneurship for students, alumni, faculty and staff. The organization offers free services to assist entrepreneurs in turning their ideas, skills and passions into real-world businesses and nonprofit organizations through individualized coaching and venture creation support.

For more information about the program and other opportunities at the Blackstone LaunchPad, email Jenny Lind, Blackstone LaunchPad at UM Montana Campus Compact AmeriCorps*VISTA, at lind@mtcompact.org.

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Contact: Morgan Slemberger, marketing and operations manager, UM Blackstone LaunchPad, 406-243-5723, morgan.slemberger@umontana.edu.
MISSOULA – University of Montana School of Journalism Professor Joe Eaton has won a Fulbright grant to teach journalism at Tra Vinh University in Vietnam's Mekong Delta in June.

Eaton will teach journalism to faculty and local journalists and assist with developing the school's journalism curriculum.

“The School of Journalism has always had a strong international focus, and many of our students are interested in becoming foreign correspondents,” Eaton said. “During the past three years, we have taken students to Japan, Germany and India. Our professors have taught in China and other countries. I look forward to building bridges with Tra Vinh University and developing an ongoing relationship between our schools.”

Eaton also is leading 15 UM students to Korea on a reporting trip in May to produce multimedia stories that will run on CityLab, an urban-focused news site owned by Atlantic Media. The trip is part of the Montana Journalism Abroad program, which provides an opportunity for student journalists to gain valuable, real-world international journalism skills in a breaking-news setting through on-the-ground reporting.
Past groups have traveled to India to investigate the environmental aspects of the Tadoba-Andhari Tiger Reserve; to Berlin, Germany, to report on the refugee crisis; and to Fukushima, Japan, to study the effects of the nuclear energy crisis. Since fall semester, the Korea team has been reporting, finding sources, studying Korean, developing their itinerary and pitching stories.

“It's going to be a very busy and exciting summer for me, my family and this group of students,” Eaton said. “I'm proud of the collaboration with CityLab and the opportunity for our students to publish their work in a professional media outlet.”

Eaton will travel directly from Seoul, South Korea, to Vietnam. He will live on the Tra Vinh University campus with his wife and 6-year-old son, Julian.

“I am excited to make the trip and to teach journalism in Vietnam. I was last in Vietnam in 1995, soon after graduating from the University of Michigan. That time, I backpacked around the country for a few weeks, staying in the cheapest hostels I could find. I'm excited to see how the country has developed,” Eaton said.

“Like many Americans of my generation, I grew up with a strong interest in Vietnam, mostly because of stories of the war I heard from soldiers of my father’s generation,” Eaton said. “My father served in Vietnam in the U.S. Navy. He met my mother in California on his way home. So, the country plays a part in my family history.”

Eaton joined the School of Journalism faculty in the fall of 2013. He is a freelance writer for magazines and websites, including National Geographic, The Atlantic and Pacific Standard.

Eaton teaches courses in public affairs reporting, investigative reporting and editing.

Before joining the faculty, he worked as an investigative reporter at the Washington, D.C.-based Center for Public Integrity. He also has reported for the Roanoke Times in Virginia and Washington City Paper.

Established in 1914, the UM School of Journalism has trained generations of journalists in print, broadcast, photography and digital media. The school regularly ranks among the top 10 journalism schools in the United States. Learn more at https://jour.umt.edu/.

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Contact: Joe Eaton, assistant professor, UM School of Journalism, joe.eaton@mso.umt.edu.
UM Professor Wins Fulbright Grant to Teach Journalism in Vietnam - UM News - University Of Montana
MISSOULA – New research from a team of 98 scientists in 21 countries and territories has found that the largest 1 percent of trees in mature and old forests comprise about 50 percent of forest biomass worldwide.

The team, including University of Montana forest ecology Professor Andrew Larson, used data from 48 large forest plots around the world. Jim Lutz at Utah State University is lead author of the new paper, published May 8 in the journal Global Ecology and Biogeography. The paper, titled “Global importance of large-diameter trees,” is available at
These big trees store a disproportionally large amount of the carbon in the forest," Larson said. "They're the elites — and because of their age and size, are very difficult to replace."

Forests are a key component of the global carbon cycle. Trees draw carbon dioxide out of the atmosphere through photosynthesis, storing some of that carbon as wood in large, old trees.

The team found that in temperate forests, the largest trees are from a small number of tree species. Tropical forests, in contrast, tended to have more species capable of attaining large size.

"The finding that large diameter trees tend to belong to attention," Larson said. "The implication is that loss of one or a few species capable of growing to large size could result in structural and functional degradation of forests."

"We're lucky here in western Montana to be surrounded by some of these big, old trees — like the champion western larch near Seeley Lake," he said.

Western larch grow to the largest size among all tree species in Montana's subalpine forests. The champion larch near Seeley Lake is the largest western larch, and also the largest individual larch tree of the 10 larch species worldwide.

"Imagine introduction of a non-native insect or disease
that wipes out western larch,” Larson said. “This would cause an irreversible structural simplification of our forests, resulting in reduced wood production, less carbon storage and lost habitat for animals that nest or den in large hollow trees. Temperate forests may be more vulnerable to this type of large tree loss than tropical forests.”

The researchers also found that both the concentration of biomass in the largest 1 percent of trees and forest density declined with latitude. Although tropical forests are well known to typically have many more species than temperate forests, this study found that temperate forests have higher structural complexity, both in terms of different tree sizes within an area and also between adjacent areas of forest.

“The distribution of big trees has not been well explained by theory,” said Tucker Furniss, Ph.D. student at Utah State University and co-lead author. “Our results emphasize the importance of considering these rare, but disproportionately important ecosystem elements. We clearly need more applied and theoretical research on these important big trees.”

The Smithsonian ForestGEO program provides a rich, consistent source of long-term data on forest structure. Larson has worked on the Yosemite Forest Dynamics Plot, one of the sites used in this study, for the past decade.

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**Contact:** Andrew Larson, associate professor of forest ecology, UM W.A. Franke College of Forestry and Conservation, 206-799-1253, a.larson@umontana.edu.
Study: Largest 1 Percent of Trees Make Up Half of Mature Forest Biomass Worldwide - UM News - University Of Montana
MISSOULA – The University of Montana DeWit RiteCare Speech, Language and Hearing clinic will hold several camps for kids this summer.

Camp CHRONICLE (Creating High-Quality Renderings & Original Narratives in Comics in a Language-rich Environment) is a two-week camp designed for children completing grade 4 or 5 who struggle with reading, spelling or writing, but enjoy creating stories and drawing. The purpose of CHRONICLE is to boost literacy skills while creating comic books in a fun environment.

The cost is $400 for two weeks, but some scholarships based on financial need may be available. The camp runs from 9 a.m. to 3 p.m. Monday through Friday, June 18-29. Snacks are provided, but children must bring a lunch.

For more information call Ginger Collins, assistant professor in the UM Department of Communicative Sciences and Disorders, at 406-243-2626 or email ginger.collins@umontana.edu. Camp registration is online at https://ritecareclinic.submittable.com/submit.

YETI (Youth Engagement Through Intervention) Camp is for children who have social skill challenges related to
autism or other disorders. YETI provides social skills intervention in a fun and safe environment with a 1-to-1 ratio of adults to children. Typically developing peers attend, and this intensive intervention uses evidence-based practices.

There are two YETI camps:

- **YETI Camp I**: This camp welcomes 10 children and targets social skills through speech/language therapy and behavioral support. A middle school break-out group will occur each day. The camp runs from 9 a.m. to 3 p.m. June 11-15. Campers should bring a lunch.
- **YETI Camp II**: This camp welcomes five elementary age children and targets social skills through speech/language therapy. The camp runs from 9 a.m. to 3 p.m. June 25-29. Campers should bring a lunch.

A prescription is required. The cost for one week of camp is $325 or insurance may be billed. Those interested should call the clinic at 406-243-2405 for a registration packet. For children who are a candidate for the camp, a non-refundable/transferable $25 free for one camp and $45 for both camps is required to hold the spot. Participants must have consistent attendance. Children who do not receive a spot are welcome to apply for the after-school programs hosted every fall and spring.

The UM DeWit RiteCare also will run an autism diagnostics clinic on June 18-19.

SkillBridge is an intensive speech therapy program from July 9-24 for people of all ages who require support over the summer break. Participants come for an hour and a half each day for 12 days and receive 18 hours of intervention in a fun and safe environment. To secure a spot in the program, call 406-243-2405. A $20 non-refundable/transferable fee is required to hold a spot. Participants will be required to obtain a prescription from their medical provider in order to bill insurance.

For more information call Jennifer Schoffer Closson, director of clinical education in the UM Communicative Sciences and Disorders department, at 406-243-2405 or email jennifer.schofferclosson@umontana.edu.

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**Contact:** Jennifer Schoffer Closson, director of clinical education, UM Communicative Sciences & Disorders, 406-243-2405, jennifer.schofferclosson@umontana.edu.
May 08, 2018

MISSOULA – Nearly three-fourths of all Montanans participate in outdoor water recreation activities, and this year 87 percent of those residents are aware of the invasive aquatic mussel issue in Montana.

The numbers indicate an overall increase of 20 percent from a similar 2017 awareness study, according to figures released by the Institute for Tourism and Recreation Research at the University of Montana.

Larvae of aquatic invasive mussels were found in Tiber and Canyon Ferry reservoirs in November 2016, with potential devastating effects on all waterways in the state. As a result Tiber Reservoir and other western lakes and reservoirs closed for a number of months. The 2017 Legislature allocated more dollars for Montana Fish, Wildlife and
Study Shows Montanans’ Awareness of Invasive Aquatic Species Improving - UM News - University Of Montana

Parks to contain the mussel invasion, including more funding for education and boat check stations.

Results of the ITRR study show that every age group in the state became more aware of the mussel issue in the past year. The 46- to 55-year-old age group showed the largest increase with 22 percent more residents of this age aware of mussels, followed by the youngest age group of 18- to 25-year-olds, whose awareness went up 20 percent.

“These results, however encouraging, still point to the fact that 12 percent of Montanans who participate in water recreation are still unaware of the invasive mussels,” said Norma Nickerson, director of the ITRR.

As in 2017, the 2018 results show that the least aware age group is the 18- to 25-year-olds, with only a 64 percent awareness level.

“Montana needs to provide continued support for FWP’s education campaigns,” Nickerson said.

The 2018 study also found that 91 percent of Montanans who participate in water activities are aware of boat inspection stations, but only 71 percent were aware that all types of watercraft – including kayaks and paddle boards – need to be inspected. Montana FWP now has 35 mandatory boat check stations around the state.

The ITRR study surveyed 5,551 Montanans ages 18 and older who were intercepted at gas stations and rest areas throughout the state earlier this year.

More information on the study is available at [https://scholarworks.umt.edu/itrr_pubs/368/](https://scholarworks.umt.edu/itrr_pubs/368/). All information and reports published by ITRR are available online at [http://www.itrr.umt.edu](http://www.itrr.umt.edu).

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**Contact:** Norma Nickerson, director, UM Institute for Tourism and Recreation Research, 406-243-2328, norma.nickerson@umontana.edu.
Study Shows Montanans’ Awareness of Invasive Aquatic Species Improving - UM News - University Of Montana
UM Campus Recreation Offers New Summer Fitness Programs

May 08, 2018

MISSOULA – The University of Montana Campus Recreation Fitness Programs will hold new training options for Campus Recreation members this summer.

The new summer fitness programs are:

- “Train Like a Griz”: A structured strength-training program that meets twice a week for eight weeks from June 7 to Aug. 2. Days and times TBA. Registration is $60 at the Fitness & Recreation Center front desk or online at https://bit.ly/2JNnzXY.
- “HIIT the Trail”: A class for runners looking to race and/or increase their running and cardiorespiratory fitness through light jogging and high intensity interval workouts. Monday and Wednesday, 11:30 a.m. to 12:30 p.m., June 4-29. Registration is $20 at the Fitness and Recreation Center front desk or online at https://bit.ly/2rkl7jk.
- “F.I.T.” or “Functional Interval Training”: A 50-minute class focused on body weight, TRX and weighted exercises geared toward increasing mobility and strength. Wednesdays from noon to 12:50 p.m. each week in June. Bring a punch card.
For more information, call Andi Armstrong, UM Campus Recreation assistant director of operations and marketing, at 406-243-2806 or email andrea.armstrong@umontana.edu.

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**Contact:** Andi Armstrong, assistant director of operations and marketing, UM Campus Recreation, 406-243-2806, andrea.armstrong@umontana.edu.
UM Professor Receives National Award for Community Engagement Work

May 07, 2018

MISSOULA – University of Montana Associate Professor Laurie A. Walker received national recognition for integrated and community-engaged teaching, research and service with a 2017 Ernest A. Lynton Award.

The award is named after a professor who had a vision for universities responding to local issues by collaborating with diverse interdisciplinary communities. It is sponsored by
the Swearer Center at Brown University and the Coalition of Urban and Metropolitan Universities.

The Swearer Center designates the Carnegie Community Engagement Classification for universities, and UM is one of 361 U.S. campuses to receive the classification.

Walker received the award and presented on “Effective Partnerships with Native American Communities: Stories from Montana” at the CUMU annual conference in October 2017. The conference was held in Denver, Colorado, and Walker is an alumnus of the University of Denver. The presentation acknowledged many UM Native American students, staff and faculty who relationally influenced Walker’s understanding of how to engage diverse individuals and communities in teaching, research and university committee work.

Walker’s teaching, research and service have a strong focus on diversity and inclusivity, which also are core values at UM and have resulted in numerous collaborations and opportunities.

“Professor Walker engages students with genuine interest, expresses confidence in them and works to build relationships, furthering their decolonizing work and empowering students to become co-creators of knowledge,” an award nominator said. “The impacts of Professor Walker’s community engagement work have reverberated across the campus and broader communities, creating and sustaining positive change.”

Walker presented the keynote address at the Swearer Center on April 24, describing a community engagement framework that builds partnerships to develop empathy and understand other perspectives. The strengths-based approach centers on historically underrepresented groups working toward justice on their own terms and includes an analysis of identities, power and awareness of the systemic causes of issues.

Through Walker’s commitment to anti-oppressive and decolonizing teaching methods critically examining issues related to power, privilege and oppression, students have learned from one another and developed their own theoretical approach, capabilities and social justice interests.

One student project includes the documentary “When They Were Here,” which began as a classroom project in a
The documentary, directed by UM students and siblings Ivan and Ivy MacDonald, interviewed family and community members of Missing and Murdered Indigenous Women in Montana.

The documentary was screened at UM; the Montana State University campuses in Billings, Bozeman and Great Falls campuses; Portland State University; the Crow Agency; and the Montana Campus Compact Civic Engagement Conference. Ivan MacDonald credits Walker with laying a foundation for the work by actively engaging in decolonization in educational and research processes.

The Campus Compact presentation was co-presented with the MacDonalds and first-year UM student Marita Growing Thunder. Growing Thunder, featured in the documentary, founded the “Save Our Sisters” advocacy project while a senior in high school. The students have received press coverage of their documentary in regional and campus newspapers and hope to create a more formal production of the documentary film in collaboration with their community partners in fall 2018.

The Montana Campus Compact office works with tribal college partners across the state. As a result of the Campus Compact presentation, Walker and Ivan MacDonald also have worked with the UM Civic Engagement and Montana Campus Compact offices to build a framework for their teaching, training and community engagement work that centers Native American perspectives.

Walker’s research diligently includes community members in research design, data collection, literature review and data analysis and often includes students as co-authors to have the greatest impact. The most recent scholarship focuses on understanding the causes of over-incarceration of Native American women in prison and their re-entry needs.

Walker’s current research is in collaboration with UM interdisciplinary students, UM’s Margery Hunter Brown Indian Law Clinic and Montana Justice Initiative, the Salish Kootenai Tribal Defender’s Office, a newly formed local holistic defense nonprofit, the Montana Department of Corrections, the American Civil Liberties Union and the Rocky Mountain Tribal Leaders Council.

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**Contact:** Colleen Kane, associate director of community engagement and student programs, UM Office for Civic Engagement, 406-243-5128, colleen.kane@mso.umt.edu.
UM Pollner Professors Include Investigator, Pulitzer Prize-winning Photographer

May 07, 2018

MISSOULA – Two exceptional journalists will join the faculty at the University of Montana School of Journalism during the 2018-19 academic year as T. Anthony Pollner Distinguished Professors.

Ben Montgomery, an investigative reporter in Florida for more than a dozen years, will be the Pollner professor in the fall semester. As a reporter for the St. Petersburg Times, Montgomery and a colleague were finalists for a Pulitzer Prize for local reporting in 2010 for their series about decades of abuse at a Florida reform school for boys.

He’s also won a number of other national awards, including a Columbia University Dart Award for reporting about trauma and a
Casey medal for reporting on disadvantaged youth and families. He was also a finalist in 2011 for a Livingston Award, which honors outstanding work by journalists under the age of 35.

Montgomery was most recently a reporter for the Tampa Bay Times. His final investigative project before leaving in November was titled “Why Cops Shoot,” a review of six years of Florida police shootings that revealed how fear and bias breeds confusion, how order quickly dissolves into chaos and ways to avert the violence.

He’s finishing work on his third book, “The Man Who Walked Backward: An American Dreamer’s Search for Meaning in the Great Depression,” which will be published this year by Little Brown & Co. At UM he will teach a course on investigative techniques and narrative writing. He also will serve as an adviser to students at the Montana Kaimin newspaper.

The spring Pollner professor will be Preston Gannaway, winner of the 2008 Pulitzer Prize for feature photography. Gannaway was a photojournalist at the Concord (New Hampshire) Monitor when, for more than a year, she undertook the documentary project “Remember Me,” which the Pulitzer committee described as an intimate chronicle of a family coping with a parent’s terminal illness.

In addition to working at the Monitor, Gannaway was subsequently a staff photographer at the Rocky Mountain News and the Virginian-Pilot. She is at present a freelance documentary and fine arts photographer based in Oakland, California. Her book, “Between the Devil and the Deep Blue Sea,” about the changing character of a seaside neighborhood in Virginia, was released in 2014.

Gannaway’s work has been exhibited across the United States and internationally and is a part of the permanent exhibits at museums and schools in several locations. She, too, will advise the students at the Montana Kaimin. Her class will focus on intimacy and long-form journalism, examining how to form relationships that lead to sensitive and in-depth pieces and build networks that foster bringing those pieces to publication.
The professorship was created in 2001 to honor the memory of T. Anthony Pollner, a 1999 School of Journalism graduate who died in a motorcycle accident in England.

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**Contact:** Dennis Swibold, professor and director of faculty affairs, UM School of Journalism, 406-243-2230, dennis.swibold@mso.umt.edu.
UM Students Named as ‘Last Best’ Speakers

May 07, 2018

MISSOULA – The top six students enrolled in Introduction to Public Speaking at the University of Montana showcased their skills May 3. Participants in the Last Best Speaker Competition, which takes place each semester, include the top informative and persuasive speakers enrolled in the course during spring semester.

The top speakers from each section engage in a preliminary
completion, and then six finalists speak during the Last Best Speaker Competition to earn the honor of the “Last Best Speaker.”

The finalists were Chloe Loeffelholz of Bozeman; Megan Gibson of Livingston; Mikaya Terzo of Sacramento, California; Logan Robinette of Portland, Oregon; Melody Hollar of Camas, Washington; and Greg Burns, also from Sacramento.

Loeffelholz and Robinette earned the top speaker award in informative and persuasive speaking, respectively. The winners each received $100, and runners-up won $25.

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Contact: Betsy Wackernagel Bach, professor, UM Department of Communication Studies, 406-243-4293, betsy.bach@mso.umt.edu.
UM Students Named as ‘Last Best’ Speakers - UM News - University Of Montana

University of Montana
32 Campus Drive
Missoula, MT 59812
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news@umontana.edu
MISSOULA – Nine students from the University of Montana School of Journalism will hold a premiere of their documentary film “Montana Jails Slammed for Solutions” at 5 p.m. Friday, May 11, in the University Center Theater.

The showing is free and open to the public. The documentary will broadcast statewide at 7:30 p.m. Thursday, May 17, on MontanaPBS.

Many of the state’s 36 jails are overcrowded, and according to the American Civil Liberties Union of Montana, 90 percent of individuals held in Montana jails are charged with an addiction-related offense. The show takes a closer look at how the state is trying to break the pattern of addiction and jail time.

A mother with multiple DUIs is serving her time in a lockdown treatment facility in Glendive. But other counties take a different approach. A man is serving time for his second DUI with a variety of community service projects in Lake County. A repeat offender out of Lewis and Clark County is sitting in jail, but hopes to get into treatment court. These alternative programs can alleviate jail overcrowding, but how effective are they in breaking the pattern of reoffending?
The journalism students who produced the documentary are:

- Maria Anderson, producer, from **Kent, Washington**
- Tiffany Folkes, director, from **Duvall, Washington**
- Matt Skillman from **Ennis**
- Sophie Trouw from **Fairfax, California**
- Meri DeMarois from **Missoula**
- Joseph Perea from **Eureka**
- Posie Buffington from **Wayzata, Minnesota**
- Natasha Woodworth from **Columbia Falls**
- Julie Beanes-Magnuson from **Los Angeles**.

For more information on the documentary, call Denise Dowling, UM journalism associate professor, at 406-243-4143 or email **denise.dowling@mso.umt.edu**.

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**Contact:** Denise Dowling, associate professor, UM School of Journalism, 406-243-4143, **denise.dowling@mso.umt.edu**.
MISSOULA – University of Montana postdoctoral fellow Rachel Dalton recently received a Presidential Trainee Award at the 2018 American Society for Clinical Pharmacology & Therapeutics annual meeting. The award recognizes the research she conducted as a graduate student at UM.

The Presidential Trainee Award is given to the top 10 percent scoring abstracts submitted by students and postdoctoral fellows for presentation at the ASCPT annual meeting. This year’s meeting was March 21-24 in Orlando, Florida. Dalton was one of 19 students from around the country who received the award.

Dalton earned both her doctorate in pharmacy and master’s of science degree in pharmaceutical sciences from UM. Originally from Muskegon, Michigan, Dalton currently works in Associate Professor Erica Woodahl’s lab at UM and plans to pursue a future working toward clinical implementation of
pharmacogenetic testing with a focus on rural and medically underserved populations.

Dalton’s research focuses on learning more about why people respond differently to the same medications.

“There are many pieces to the puzzle, but one important factor is differences in our DNA,” she said. “The DNA that codes for CYP2D6 – an enzyme that breaks down drugs – can vary widely between people. Current technology used in the clinic isn’t great at detecting these differences.

“My collaborators and I found that we can detect them using a combination of newer DNA sequencing technology and specialized software tools,” Dalton said. “These findings can help clinicians use information about CYP2D6 to help choose the best medications for people.

“It was exciting to be around people who were interested in my research and to feel that I am making a useful contribution to my field,” she said.

“This is a highly prestigious award,” Woodahl said, “and to my knowledge, Rachel is the first recipient of the award from UM.”

The award-winning ASCPT abstracts are detailed online at [https://www.ascpt.org/Meetings/Annual-Meeting/Program-Highlights](https://www.ascpt.org/Meetings/Annual-Meeting/Program-Highlights) by clicking on “showcase top trainee abstracts.” Dalton’s award-winning abstract is in video form at [https://youtu.be/-jJuUmZmp0E](https://youtu.be/-jJuUmZmp0E).

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**Contact:** Rachel Dalton, UM postdoctoral fellow, racheldalton@gmail.com.
UM Offers Indian Law Courses This Summer

May 03, 2018

MISSOULA – Students and law practitioners once again have the opportunity to study Indian law this summer with the Alexander Blewett III School of Law at the University of Montana.

The 11th annual Summer American Indian and Indigenous Law Program offers nine weeklong courses from June 4 to Aug. 3. Expert Indian law scholars and practitioners from around the country will lead the courses.

Participants in the program may choose from any of the nine courses – or take them all. Courses will be offered for law credit for matriculated law students and cross-listed for graduate credit. Law students enrolled at other institutions can submit a summer application for admission. Practicing lawyers may be eligible for continuing legal education credits. Applications are online at http://www.umt.edu/indianlaw.

Zac Hixson, American Bar Association representative for the Blewett School of Law, took three summer courses through the 2017 program.

“The program’s professors and course content were absolutely top-notch,” Hixson said. “Criminal jurisdiction in
Indian Country was one of the most relevant and interesting classes of law school. I still enjoyed my Montana summer because the classes end by midmorning. I highly suggest taking advantage of this program."

Hixson is on track to earn his Juris Doctor degree in 2019.

The majority of the curriculum changes each year, and this year’s schedule boasts another all-star lineup of Indian law experts. Professors and attorneys from universities and organizations from Alaska, Colorado, Hawaii, Michigan and Montana will cover many topics, including American Indian children, designing government regulations, Alaska and Hawaii Native laws, water law, international law, and public policy.

Those unable to make classes in Missoula can take the Indian Law Research remotely as an online course, Monday through Friday, June 4-8. Attendees must participate online daily to access course materials, contribute to discussions and complete research exercises, but may do so on their own schedule each day.

“If you're at all interested in Indian law, you must take these classes,” said Summer Carmack, a 2019 Juris Doctor candidate and upcoming president of the Student Bar Association at the Blewett School of Law.

“I took five classes for six credits during the summer of 2017 and learned so much,” Carmack said. “The classes were so interesting and fun. I am now pursuing a certificate in American Indian Law to accompany my law degree.”

In addition to the Summer American Indian and Indigenous Law Program, students and practitioners have a pro bono opportunity to take part in the 100th annual Crow Fair Celebration Powwow and Rodeo in Crow Agency, Montana.

The Blewett School of Law recently received funding from the Montana Justice Foundation to support a weeklong service trip to the Crow and Northern Cheyenne reservations in August. The Aug. 14-19 trip includes visits to aid clinics at Crow Fair and with the Northern Cheyenne. This trip will function as a travelling legal aid clinic, where law students and faculty take walk-in appointments for people who need assistance with civil legal matters. Student volunteers will conduct initial intake, screening and issue spotting, and will observe volunteer attorney consultations.

An abbreviated schedule of the summer program is below.

- **June 4-8**: Indian Law Research (online) with Professor Stacey Gordon Sterling, UM Blewett School of Law.
- **June 11-15**: Mastering American Indian Law with Professor Maylinn Smith, UM Blewett School of Law.
- **June 18-22**: American Indian Children and the Law with Professor Kate Fort, Michigan State University College of Law, East Lansing, Michigan.
- **June 25-29**: Designing Effective Governmental Regulations with Danna Jackson, chief legal counsel, Montana Department of Natural Resource & Conservation, Helena; and UM public administration Professor Sara Rinfret.
- **July 2-6**: Alaska Native Law and Policy with Matt Newman, staff attorney, Native American Rights Fund, Anchorage, Alaska.
UM Offers Indian Law Courses This Summer

- **July 9-13**: Native Hawaiian Law with Professor Melody Kapilialoha MacKenzie, William S. Richardson School of Law, Honolulu, Hawaii.

- **July 16-20**: Water Law in Indian Country with John Carter, tribal attorney, Confederated Salish & Kootenai Tribes, Pablo.

- **July 23-27**: Indigenous Peoples in International Law with Professor Kristen Carpenter, University of Colorado School of Law, Boulder, Colorado.

- **July 30-Aug. 3**: Public Policy and the Tribes with UM public administration Professor Adam Brewer.

- **Aug. 14-19**: Pro Bono Service Trip to the Crow Fair Celebration Powwow and Rodeo, Crow Agency.

For a complete description of courses and biographies of each instructor, visit [http://www.umt.edu/indianlaw](http://www.umt.edu/indianlaw). Registration for university students and lawyers seeking CLE credit is also available on the program page.

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**Contact**: Monte Mills, assistant law professor and Margery Hunter Brown Indian Law Clinic co-director, UM Alexander Blewett III School of Law, 406-243-2544, monte.mills@umontana.edu.

Montana Public Radio and MontanaPBS will focus on successful examples of veterans “finding what works” as they transition to civilian life: advancing their education, furthering their careers and contributing to their community.

“There are a number of uniquely Montana programs that have been created to help our veterans through tough times in their lives,” said Ray Ekness, director of the University of Montana Broadcast Media Center that houses both Montana Public Radio and MontanaPBS. “Many of our Montana friends and family members are veterans, so I’m glad we’ll be able to highlight some of the projects that are working in our state.”

The new grants are the third phase of public media’s “Veterans Coming Home” project, which has featured nearly 200 new, digital veteran-related stories shared across public media, partner organizations and social media since 2016.
The videos, including locally produced stories, have been viewed more than 4.5 million times as part of a cohesive national digital series and innovative campaign to help bridge the military-civilian divide.

“One of the most important ways public media honors and supports those who serve our country is by telling their stories of commitment, courage and perseverance,” said Pat Harrison, president and CEO of the Corporation for Public Broadcasting. “As veterans return to civilian life, public media is connecting these men and women and their talents to a productive future through jobs and careers.”

The Montana project is one of 14 station projects receiving these “Veterans Coming Home: Finding What Works” grants as part of the national effort. These stations will produce local digital content as part of a co-production and social media campaign with national producer The Kindling Group and Wisconsin Public Broadcasting.

Montana Public Radio and MontanaPBS will convene local organizations, community leaders and engaged citizens to increase dialogue around what works for post-9/11 veterans’ reintegration. The events and social media engagement will launch over the summer and culminate in a digital series to premiere on Veterans Day in November.

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**About Montana Public Radio**

Montana Public Radio is a public service of UM and broadcasts on 89.1 Missoula (KUFM), 91.5 Missoula, city (K218AI), 91.9 Hamilton (KUFN), 89.5 Polson (KPJH), 90.1 Kalispell, Whitefish, North Valley (KUKL), 90.5 Libby (KUFL), 91.7 Kalispell, city (K219BN), 101.3 Swan Lake (K267BJ), 91.3 Butte (KAPC), 91.7 Helena (KUHM), 91.7 Dillon (K219DN) and 89.9 Great Falls (KGPR). Learn more at [http://mtpr.org](http://mtpr.org).

**About MontanaPBS**

MontanaPBS (KUFM-TV in Missoula, KUSM-TV in Bozeman, KUKL-TV in Kalispell, KBGS-TV in Billings, KUGF-TV in Great Falls and KUHM-TV in Helena) is a service of UM and Montana State University. For more information, visit [http://www.montanapbs.org/](http://www.montanapbs.org/)

**About Veterans Coming Home**

“Veterans Coming Home” is a collaborative, multiplatform effort to highlight innovative, effective programs and individuals that are leading the way to better outcomes for veterans transitioning to civilian life. Combining public media storytelling, local station convenings, deep local partnerships, and innovative digital distribution and dialogue, “Veterans Coming Home” is moving the narrative beyond traditional veteran stereotypes to build understanding of veterans’ value to their communities and ease their transitions to civilian life.

**About CPB**

CPB, a private, nonprofit corporation created by Congress in 1967, is the steward of the federal government’s investment in public broadcasting. It helps support the operations of nearly 1,500 locally owned and operated public
television and radio stations nationwide. CPB is also the largest single source of funding for research, technology, and program development for public radio, television, and related online services. For more information, visit http://www.cpb.org, follow on Twitter @CPBmedia, Facebook and LinkedIn, and subscribe for email updates.

Contact: Ray Ekness, Broadcast Media Center director and MTPR general manager, 406-243-4154, ray.ekness@umontana.edu.

“We are all over the state on this episode of ‘Backroads,’” host William Marcus said. “We hope viewers will enjoy meeting the folks in our stories.”

On this episode, “Backroads” introduces a Baker man who wants to bring the growing “Fastest Gun in the West” shooting sport to Montana. Dan Lagasse is working with the World Fast Draw Association to get Montanans interested in the growing and exciting skills competition of shooting quickly and accurately.

Every Tuesday is Thanksgiving at the Home Café in Conrad. For more than 60 years, the owners have served up succulent turkey and all the trimmings to their friends and neighbors in this area of north-central Montana.

Arlee may be part of Indian Country on the Flathead Reservation, but there’s also an East Indian cultural area that’s welcoming visitors. The Garden of 1,000 Buddhas, just north of Arlee, hopes to awaken your inner peace, joy,
wisdom and compassion.

Next, the Backroads crew travels to **Vida**, a small town between Circle and Wolf Point, in search of a mysterious sound that some locals are aware of. While searching, we learn the history and sense of community of a small eastern Montana town.

Marcus hosts the program from **Glendive**. For years, the volunteer members of the Glendive Medical Center Auxiliary have raised money for their local hospital. Their thrift store, The Attic, has proven to be profitable for the volunteers and the hospital, raising nearly $3 million that has helped bring in equipment such as a new mammogram machine.

“Speed of Sound” will re-air at 7 p.m. Thursday, May 17, and at 5 p.m. Sunday, May 20.

MontanaPBS (KUFM-TV in Missoula, KUSM-TV in Bozeman, KUKL-TV in Kalispell, KBGS-TV in Billings, KUGF-TV in Great Falls and KUHM-TV in Helena) is a service of the University of Montana and Montana State University. For more information, visit [http://www.montanapbs.org/home/](http://www.montanapbs.org/home/).

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**Contact**: William Marcus, “Backroads of Montana” host, [william.marcus@umontana.edu](mailto:william.marcus@umontana.edu).
New episode of ‘Backroads of Montana’ Set to Air on MontanaPBS - UM News - University Of Montana
UM Student Earns Boren Scholarship to Study in Kazakhstan

May 02, 2018

MISSOULA – University of Montana student Andrew Castellanos has been awarded a Boren Scholarship to study Russian in Almaty, Kazakhstan, at Al-Farabi Kazakh University for the 2018-19 academic year.

Castellanos earned a bachelor's degree in political science with a minor in wilderness studies from UM in 2017. He is now on track to receive his bachelor's in Russian in spring 2019. He will depart in August for his year as a Boren Scholar.

The Boren Scholarship awards up to $20,000 to highly motivated students who wish to work in the federal national security arena. Boren Scholars commit to working in federal government for at least one year after graduation. The
scholarship is funded by the National Security Education Program.

Only four UM students have received this prestigious academic scholarship; three of which also were students in UM’s Russian program, including Castellanos.

Castellanos became interested in political science and studied Arabic language at Old Dominion University while on active duty in the U.S. Navy (2010-14). After his honorable discharge, Castellanos enrolled at UM in fall 2015 due to UM’s strong Russian program and wilderness studies program. He previously studied in Irkutsk, Russia, during summer 2017.

Prior to his departure to Kazakhstan, Castellanos will travel to Washington, D.C., as an ambassador for the Boren scholarship where he will meet with Sens. Jon Tester and Steve Daines, and Rep. Greg Gianforte.

While in Almaty, Kazakhstan, Castellanos will study the Russian language, regional politics and economics, and the history of Kazakhstan, a former Soviet republic. Its location between the Siberian region of Russia to the north and the Xinjiang region of China to the south makes Kazakhstan an exciting place to study.

“I get to study a landlocked country like Kazakhstan and see what they want,” Castellanos said. “They are more western-oriented than Russia or China.”

In addition to studying the Russian language, Castellanos said he will study economics and climate ecology in Kazakhstan. He said climate change is well underway to the north in Siberia and he is curious how Kazakhs envision their future with climate change in their country. With the melting of the permafrost and polar arctic, new
areas are being revealed, and this is of strategic importance to the United States.

“After graduation, I hope to work in some form of public service and apply to graduate schools in order to further my knowledge of Russian and Central Asia,” Castellanos said. “In the long run if I work in a diplomatic setting, I already have built a rapport with the people of Siberia.”

Castellanos said many people at UM helped him to achieve the Boren Scholarship. He gives special thanks to Marja Unkuri-Chaudhry, interim director of UM’s Global Engagement Office. Both Sara Rinfret and Eric Schluessel of the UM’s political science department were instrumental in aiding him, as well as Brock Tessman, dean of Davidson Honors College. Lastly, Castellanos thanks Laure Pengelly Drake, director of UM's external scholarship program, and Professors Ona Renner, Alice Harris and Clint Walker in the UM Russian language department.

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**Contact:** Alex Sydorenko, UM Global Engagement Office, 406-243-2288, alexander.sydorenko@mso.umt.edu.
MISSOULA – Bitterroot children, families and community members are invited to the second annual Bitterroot Maker Fair from 5 to 8 p.m. Friday, May 4, in the Bitterroot College Gymnasium, located at 103 S. Ninth St. in Hamilton. The event is free and open to the public.

A partnership between the University of Montana spectrUM Discovery Area and Bitterroot College, the Bitterroot Maker Fair will feature activities and artifacts created by fifth-grade students from Corvallis Middle School and Daly Elementary School. Visitors can play with robots, learn about electricity, make a rocket powered only by a bouncy ball and explore modular circuit kits made by community fifth-graders.

The Bitterroot FabLab, part of Bitterroot College, will host live demonstrations of 3D printing and laser engraving. Visitors also can meet local makers and learn about career pathways in the Bitterroot, as well as opportunities at Bitterroot College for learners of all ages. The Missoula Public Library Makerspace also will showcase its new Computer Numeric Control machine and the learning opportunities available through its programs.

The Bitterroot Maker Fair is one programming highlight of a year-round, collective impact effort powered by the
Martin Family Foundation to inspire K-12 students about educational and career pathways in their community.

“With our community advisory group, K-12 schools and local partners, UM’s spectrUM Discovery Area and Broader Impacts Group are creating collective impact designed to foster social mobility and put our next generation on the fast track to fulfilling careers,” said Holly Truitt, director of spectrUM and BIG.

As part of these efforts, a cohort of elementary teachers and librarians from Daly Elementary and Corvallis Middle School co-facilitated hands-on activities in their classrooms and libraries throughout the year alongside spectrUM Museum Manager Nick Wethington.

Corvallis Middle School librarian Vic Mortimer, a member of the teacher cohort, said he is continually amazed “at how thoroughly engaged the students are, especially those who often struggle in other settings.” Mortimer said, “Teachers are beginning to notice and to adapt activities and materials to their own uses, from light play in sixth- and seventh-grade language arts to zipline racers and hovercrafts in seventh- and eighth-grade DIY classes. The program has helped to spark student interest in STEAM activities and has made the library a very busy place.”

Daly Elementary School Principal Nate Lant said fifth-grade students at Daly Elementary have looked forward to Making and Tinkering Tuesdays more than any other day of the week for the past two years.

“The lessons and activities are stimulating, engaging and allow students to experience a strong sense of self-worth,” he said. The initiative, he added, promotes “higher-level thinking, problem solving and creativity.”

For more information about the Bitterroot Maker Fair, call Wethington or Broader Impacts Group Associate Director Nathalie Wolfram at 406-243-4828.

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Contact: Nathalie Wolfram, associate director, UM Broader Impacts Group, 406-243-4828, nathalie.wolfram@umontana.edu; Nick Wethington, making and tinkering educational specialist, spectrUM Discovery Area, 406-243-4828, nicholos.wethington@umontana.edu.