ROCKY MOUNTAIN CENTER FOR OCCUPATIONAL AND ENVIRONMENTAL HEALTH

“Protecting workers and their environment through interdisciplinary education, research, and service.”

In this Issue

| 1 | Center Director’s Message |
| 2 | RMCOEH in the World |
| 3 | RMCOEH in the World (cont’d) |
| 4 | Publication Highlights |
| 5 | Advisory Board Spotlight |
| 6 | Faculty Profile: Ken d’Entremont |
| 7 | Active Shooter Training |
| 8 | Preparing for Descent |
| 9 | Utah Miner's Hospital |
| 10 | 2019 RMCOEH Awards |
| 11 | 2019 RMCOEH Awards (cont’d) |
| 12 | 4 Ways to Support Our Students |
| 13 | Student Spotlight: Past & Present |
| 14 | 17th Annual NORA Symposium |
| 15 | Keeping Our Communities Safe |
Changing with the times.

A message from the Center Director

As we here at the Rocky Mountain Center await spring after a long winter, we are also eagerly anticipating upcoming changes: new faculty members, incoming students, and a move (details yet to be determined). But as with all moments before a storm of change, we find ourselves most occupied with the here and now. There are papers to write, grants to apply for, conferences to attend, and research to conduct. We have been especially busy with the Graduate School Review of our program, where we had the pleasure of bringing in both internal and external reviewers to meet our students, tour our labs, and go over our curriculum. Our reviewers commented on the quality of our programs, students, and faculty. More than one reviewer was amazed at the enthusiasm of our students!

Other upcoming events include the 17th Annual Regional National Occupation Research Agenda (NORA) Young/New Investigators Symposium (more details on page 14). The Center, particularly our Mechanical Engineering core, work to welcome new and young investigators who will present on NORA-related research. This annual event offers these investigators a chance to formally present their research in an environment designed for them. The NORA Conference is just one way that we here at the Center work to support our students from enrollment to graduation.

However, the Center’s efforts have not been limited to the confines of the university space. We are pleased to announce that our Mountain West OSHA Education Center has just finalized an agreement with another organization in Wyoming to serve as Host Training Organization (a location for the RMCOEH's Mountain West Education Center to hold its courses). The new logo can be seen below. We are also proud of our community outreach (described on pages 2–3). Our upcoming 4th Annual Disaster and Emergency Preparedness Symposium (more details on page 15) is another means of helping educate members of the public and private sectors on what to do if the worst ever happens.

If you would like to see a week by week update of the Center's progress, please consider following us on social media. We have an active Facebook, Twitter, and LinkedIn presence, and would be delighted to have you along for the journey! But, as always, this newsletter offers a snapshot of the Center's many accomplishments. I hope that you enjoy reading this overview of the faculty, student, and staff efforts that help keep the Rocky Mountain Center one of the most celebrated Education and Research Centers in the United States.

Kurt T. Hegmann, MD, MPH
RMCOEH Director
Dr. Paul S. Richards Endowed Chair in Occupational Safety and Health
Here at the RMCOEH, we subscribe to the values of service and community outreach. Dr. Andrew Merryweather, director of our Ergonomics & Safety program, is part of the interdisciplinary partnership Tetradapt, a nonprofit organization that works “to design cutting-edge technology and provide essential programs that improve the quality of life for individuals with disabilities.” Dr. Merryweather’s research has provided key pieces of knowledge in support of building assistive devices that make dynamic pastimes such as skiing, kayaking, and hiking accessible to everyone. Tetradapt’s Tetraski was recently featured on the Today show, where viewers across the nation were able to glimpse the exciting and innovative addition to the assistive devices currently in use. Learn more about the program and how to be involved at https://www.tetradapt.us

**Tetradapt works to . . .**

“design, build, and test a new generation of assistive technologies that [offer] a much greater degree of independence and dynamic control.”

At the Silicon Slopes Tech Summit, RMCOEH faculty Drs. Andrew Merryweather and Melissa Cheng represented the University of Utah, Adaptive Sports & Recreation, and, of course, the Rocky Mountain Center. In this photo, visitors check out the various devices designed by Tetradapt.

*Photo credit: Dr. Andrew Merryweather*

Tetradapt's TetraSki, an alpine sit-ski device, being put to use in the field. The TetraSki allows users to choose their speed and direction through either breath control and/or a joystick.

*Photo credit: Tetradapt*
Our newly appointed Associate Professor Ken D’Entremont (see faculty profile on page 6) is heading up a community outreach program in partnership with the Granite Technical Institute (GTI). GTI is located in West Valley City in Sen. Karen Mayne’s district. GTI’s innovative program is designed to support students who are considered “at risk” of not graduating from high school. At GTI, these students recover school credits or learn a variety of trade skills, including carpentry, plumbing, and electrical work. As part of their Construction Trades program, students build and complete six relocatable trailers that are then used as classrooms across the Granite School District.

See more details about GTI and the Construction Trades program at https://schools.graniteschools.org/gti/

The Construction Safety Community Outreach program brings in faculty from the RMCOEH’s Ergonomics and Safety program in order to speak to students about occupational hazards and protection in the construction industry. Professor Ken D’Entremont recently presented to a group of twenty students on “Construction Safety: Falls,” and is preparing to do so again for an even larger group.

Photos from left–right: The Construction Trades Department faculty members at Granite Technical Institute (GTI), Mr. Anthony VanHorn (Carpentry) and Mr. Vaughn Nickerson (Electrical), pose with Prof. Ken d’Entremont; images of the GTI Construction Trade program. Photo Credit: Ergonomics & Safety
The Role of Elbow Tender Point Examination in the Diagnosis of Lateral Epicondylitis

Yoon, Sarang K., DO, MOH; Thiese, Matthew S., PhD, MSPH; Ott, Ulrike, PhD, MSPH; Kapellusch, Jay, PhD; Merryweather, Andrew, PhD; Wood, Eric M., MD, MPH; Ronna, Brenden B., BS; Foster, James, MD, MPH; Drury, David L., MD, MPH; Hegmann, Kurt T., MD, MPH

“These studies suggest the need for consistency in definitions for epidemiological and clinical studies of lateral epicondylitis.”

Lateral epicondylitis (perhaps better known as “tennis elbow”) is a painful musculoskeletal disorder. This study examines the role of tender point examination, or an examination that first has the provider palpate various areas associated with pain before observing the patient maneuver his/her arm. Clinicians who are familiar with tender points and resisted maneuvers both can more immediately recognize tennis elbow and begin treatment.

Occupational Factors Related to Slips, Trips, and Falls among Home Healthcare Workers.

Andrew S. Merryweather, PhD; Matthew S. Thiese PhD, MSPH; Jay M. Kapellusch, PhD; Arun Garg; Dillon J. Fix; Kurt T. Hegmann, MD, MPH

Home healthcare workers include nurses, aides, physical therapists, social workers, and more. Whether facing down a disgruntled dog, navigating icy stairs, or carrying equipment to a back bedroom, these home healthcare workers encounter some atypical occupational risks. This study—“best described as descriptive/correlational research”—examines the relationship between reported slips and trips and exposures in the household where workers provide care.

ACOEM Practice Guidelines: Work-Relatedness
J Occup Environ Med. 2018 Dec;60(12):640-646.

Greaves, William W., MD, MSPH; Das, Rajiv, MD, MPH, MS; McKenzie, Judith Green, MD, MPH; Sinclair, Donald C. II, JD; Hegmann, Kurt T., MD, MPH

These American College of Occupational and Environmental Medicine (ACOEM) guidelines tackle a tricky subject in occupational medicine: how can providers, insurers, and employers know when an injury can safely be called work-related? The authors of this paper, including Dr. Kurt Hegmann, MD, MPH the director of the RMCOEH, and Donald Sinclair II, J.D., the 2019 Dr. Paul S. Richards Endowed Distinguished Visiting Lecturer (see pg. 15), discuss the difference between medical and legal causation, as well as how to determine causation in general.

“Accurate determinations of work-relatedness are important to assure that workers receive appropriate benefits.”

Diagnostic Tests for Low Back Disorders
J Occup Environ Med. Advance online publication.

Hegmann, Kurt T., MD, MPH; Travis, Russell, MD; Belcourt, Roger M., MD, MPH, FACOEM; Donelson, Ronald, MD, MS; Eskay-Auerbach, Marjorie, MD, JD; Galper, Jill, PT, Med; Haldeman, Scott, MD, DC, PhD; Hooper, Paul D., DC, MPH, MS; Lessenger, James E., MD, FACOEM; Mayer, Tom, MD; Mueller, Kathryn L., MD, MPH; Murphy, Donald R., DC; Tellin, William G., DC; Thiese, Matthew S., PhD, MSPH; Weiss, Michael S., MD, MPH

This publication is another ACOEM practice guideline, this time regarding diagnostic tests for low back disorders. Low back pain disorders are incredibly common, with an estimated 60-80% of the population experiencing at least one episode in his/her lifetime. The authors examine and rate different diagnostic tests, including functional capacity evaluations (FCEs), MRIs, bone scans, and more.
The RMCOEH’s Advisory Board is established by Utah statute (SB 234, 2007 GS) and governed by bylaws approved by the university. The members of the center advisory board advise the RMCOEH on current and future operations.

Bart Raeymaekers, advisory board member, is Associate Professor in the Dept. of Mechanical Engineering at the University of Utah, where he directs the Utah Tribology and Precision Engineering Laboratory. He also co-founded the University of Utah Manufacturing Extension Partnership (MEP) Center. He received his M.Sc. from the University of Brussels in Belgium (2004), and his Ph.D. from the University of California San Diego (2007), both in Mechanical Engineering. He received an MBA from the Massachusetts Institute of Technology (2009), and was a postdoc fellow at the Los Alamos National Laboratory (2010).

He has earned an outstanding academic reputation, as evidenced by more than 50 publications in top-tier journals, more than 40 refereed publications in international conferences, and by his conceiving and leading large, externally-funded research programs.

Applications of his work can be found in orthopedic implants, engineered materials, and hard disk drives. Furthermore, he works with industry as a consultant, and is regularly sought out as an expert witness. He has received several research and teaching awards.

Bart has lived in the United States since September 2004 and has been a citizen of both Belgium and the United States since 2016. He is an avid cyclist in his free time.
A New Role at the RMCOEH:
Professor Ken d’Entremont Takes on New Challenges

Starting January 1st, Professor Ken d’Entremont moved into his new role as Associate Professor (Lecturer) in Mechanical Engineering (MEEN), where he teaches safety engineering. His present courses include Product-Safety Engineering and Engineering Ethics, Industrial Safety, and System Safety. These courses attract students from many disciplines of engineering and other majors who are interested in these vital issues—including those from the business school! In order to reach students who are balancing busy work schedules or who are off-campus, Prof. d’Entremont’s courses are offered once a week on Monday evenings, and sometimes are made available to distance-learning students.

Prior to joining the faculty, Prof. d’Entremont worked in industry in several positions. Most recently, he was Manager of Corporate Product Safety and Senior Staff Engineer at Polaris Industries Inc. Polaris is a leading designer, manufacturer, and worldwide distributor of innovative products used by many people happily enjoying risk-related pursuits. During that time, Prof d’Entremont was involved with product development, engineering synthesis and analysis, design specifications and requirements, product testing, standards development, regulatory affairs, and product-safety recalls.

In addition to teaching and advising, Prof. d’Entremont also supports Prof. Andrew Merryweather, the Director of the Ergonomics & Safety Program. Prof. d’Entremont is also now working with the MEEN Department’s Capstone Design Program to advise senior design teams. His industry experience allows him to help others discover new ideas and find extramural funding to support these innovative projects.

Prof. d’Entremont has also worked as a consulting engineer (Exponent, Inc. and Triodyne, Inc.) where he was involved in engineering design, design analysis, and full-scale testing including automobiles. He also worked with automotive crash testing with instrumented ATDs (Anthropomorphic Test Devices), or crash-test dummies.

He is a registered Professional Engineer in Arizona and Utah.

He has co-authored or edited training manuals for the US DOT/FHWA on reducing commercial-truck accidents and hazardous materials (HazMat) incidents.

Prof. d’Entremont sometimes assists manufacturers of products in the United States mark their products for import to and sale in Europe. Such products have included machinery, medical devices, and personal protective equipment (PPE).

Prof. d’Entremont is excited to report that he is working with a publisher on his book, Comprehensive Product Safety: Product-Safety Engineering with Applied Engineering Ethics. He has been in contact with an editor and recently submitted his proposal. No book exists on this important topic, which is significantly different from Industrial Safety and other forms of safety. He plans to complete the book in 2019.
"This is a non-partisan video," is the first thing that Tom Boeger, Director of IT Services, wants to emphasize when speaking about the active shooter training video that the Rocky Mountain Center for Occupational and Environmental Health is in the process of developing. “This is a true occupational safety video for employers and employees.” The video is a collaboration between the RMCOEH and Dave Acosta of YouTactical Nation. It offers guidance not only on how to face this particular emergency circumstance, but raises awareness of how to train for other crises as well.

Mass shootings in the United States are, as Boeger remarks, increasingly common. In November 2018, Americans had experienced 307 mass shooting events—as many shootings as there were then days of that year. Although the mass shootings that become national events are fortunately rare, domestic violence and workplace gun violence are also possibilities that workers might encounter. Preparing employees to safely navigate this occupational hazard doesn’t only protect against the rare possibility of violence, but educates and empowers them to be proactive about their own safety.

Run-Hide-Fight is the course of events recommended by the Department of Homeland Security, but, as Boeger states, "most people when they hide, hide under their desks." Employees who are caught in an active shooter situation tend to react as they might to an earthquake. Unfortunately, by taking refuge in these places, they are often rendered vulnerable to passing shooters.

In response to these tendencies, Dave Acosta’s technique at YouTactical Nation demonstrates a different approach to Run-Fight-Hide. His training empowers individuals to be “[their] own first responder.” In a video of one of Acosta’s classes, a 60-year-old woman disables a shooter after only a single hour of training. Acosta’s training structure, which will be utilized in RMCOEH’s video, demonstrates how to run correctly, avoid encountering a shooter, and minimize or eliminate fatalities altogether.

The Center Director, Dr. Kurt Hegmann, adds that some of these strategies can be applied to other emergency situations, such as fire or earthquakes. “They raise awareness of evacuation patterns,” he explains. Helping employees understand when and how to exit the building during an active shooter situation reinforces good emergency protocol.

Active shooter training is unique among emergency preparedness in that it teaches employees to be proactive responders rather than passively following a mandated evacuation plan. Forms of this training, such as the RMCOEH’s upcoming video and the classes offered at YouTactical Nation, are only a few examples of how occupational and environmental health will continue to evolve as we progress further into the twenty-first century.
Preparing for Descent: A Visit to the American Gilsonite Mine

On August 17, 2018, all eight Occupational Medicine Residents, two Occupational Medicine faculty (Drs. Wood and Yoon), and three staff members at the Utah Miners Hospital participated in a full-day site visit to the American Gilsonite mine in Bonanza, Utah. Shawn Shipley, the Utah Miner’s Hospital program manager, made arrangements for the group to attend (for more information about the Miner's hospital, please see the next page).

The Gilsonite Mine General Manager, Mike Wilhite, greeted the group and embarked on an educational overview of the mine. Wilhite led them through the mine’s fascinating history, beginning with William Phipps Blake’s classification of a natural bitumen that is unique in the world.

Gilsonite, as that bitumin is now known, is the brand name for uintaite, a non-hazardous resinous rock that utilized across multiple industries. The addition of Gilsonite improves drilling fluids, asphalt, inks, and more. Although in the early years of the mine, miners only collected Gilsonite by hand, hydraulic mining methods have been incorporated to increase safety and productivity.

After safety training and travel to the mining site, the group donned coveralls, hardhats, safety glasses, and hearing protection. Two by two, they entered into a small cage that then lowered them into a mine shaft, descending as far as 860 feet below ground. Afterwards, they walked from one of the active mine tunnels to a mine face where a lone miner worked to extract the mineral's raw form.

Individuals in the group temporarily took on the role of miners, operating hand-held jackhammers and climbing escape ladders to learn how it felt to self-rescue in the event of a mine elevator failure. The opportunity to see firsthand both the mining process and the safety/health hazards experienced by the Gilsonite Miners was invaluable.

After leaving the mine's darkness and emerging to see the blue sky overhead, the group celebrated their return to aboveground life with a late lunch at the Vernal Brewing Company. They wish to thank Mr. Wilhite, Mr. Shipley, and the American Gilsonite Mine for hosting them.

For more information, visit http://www.americangilsonite.com/index.php?id=1

Donning protective equipment prior to descent into the mine. Photo credit: Dr. Hansjorg Schwertz and Dr. Sarang Yoon.
What is the Utah Miner’s Hospital?

In their own words . . .

“The Miners Hospital was established in 2004 to provide health care to disabled Utah miners with mining-related illnesses or injuries. A mining-related illness or injury is a disability, illness, or injury associated with working in a coal, metal, or non-metal mine. A mining-related injury also significantly affects a miner’s or former miner’s daily activities and/or significantly affects his or her ability to work, reasonably requiring medical treatment.”

Coal and/or Gilsonite miners from Carbon County semiannually visit the Miner’s Clinic to be seen by RMCOEH clinical faculty Drs. Eric Wood and Jeremy Biggs. Miners come with everything from lung complaints to musculoskeletal disorders (MSDs); Drs. Wood and Biggs also work with a variety of other specialists to provide care.

For more information about the Miner's Hospital, contact Shawn.Shipley@utah.edu.
AWARDS SEASON:
Recognizing our Exemplary Faculty, Staff, and Students

MSOH Teaching Faculty Award – Dr. Darrah Sleeth
Darrah Sleeth, PhD, MPH, CIH is an Associate Professor at the Rocky Mountain Center for Occupational & Environmental Health. She earned a PhD in Industrial Health and an MPH from the University of Michigan. Her research interests include exposure assessment for airborne respiratory hazards, particle size selective sampling methods and indoor air quality. Dr. Sleeth serves on most of the MSOH-IH student committees, either chairing or being a member of ~15 active committees. She was previously president of the Utah chapter of the American Industrial Hygiene Association, and remains active in the leadership there.

MOH Teaching Faculty Award – Dr. Melissa Cheng
Dr. Melissa Cheng joined the Rocky Mountain Center for Occupational and Environmental Health after her completion of residency in 2011. She graduated from the University of Utah School of Medicine in 2008. She also has a Master of Health Science in international health with an emphasis on complex humanitarian emergencies from Johns Hopkins Bloomberg School of Public Health in 2003 and Master of Occupational Health from the University of Utah in 2010. Dr. Cheng maintains a full spectrum occupational medicine practice and teaches residents and graduate students in occupational and environmental health. Dr. Cheng is an expert and enthusiastic source of support for our Masters of Occupational Health residents.

Research Mentor Award – Dr. Matthew Thiese
Matthew S. Thiese, PhD, MSPH, is an Associate Professor here at the Rocky Mountain Center for Occupational and Environmental Health. He earned his BS in Exercise and Sport Science (2001), MSPH in General Public Health (2003), and PhD in Occupational Injury Prevention (2008). Dr. Thiese currently teaches three courses at the School of Medicine and is involved in multiple ongoing field research projects. Dr. Thiese has field experiences with measuring aerobic capacity and energy expenditures in both laboratory and occupational settings. Dr. Thiese is well-known among the graduate students here as the resident stats guru, and he is always willing to extend support for data analysis and more.

Staff Exemplary Leadership Award – Connie Crandall
Connie Crandall has over forty years of experience with the University of Utah, and has spent over thirty-two of those years as the RMCOEH Continuing Education Director. She has done an incredible job of developing the CE program, which conducts many short-term post-graduate courses in each of the core disciplines, as well as in other related areas, on current topics. These range from asbestos management to HAZWOPER training, and serve >3,000 participants per year. Connie is soon to retire from the RMCOEH, and plans to travel and continue to work with Community Animal Welfare Society. Three cheers for Connie!
AWARDS SEASON:
Recognizing our Exemplary Faculty, Staff, and Students

MSOH Student of the Year Award – Lauren Haggerty
Lauren Haggerty is one of our second-year master’s students in Industrial Hygiene. She came to the Center with a B.S. in Environmental and Occupational Health from Boise State University, where she minored in sustainability. She has completed summer practicums for the Indian Health Service, the City of Boise, and Micron Technology, during which she conducted health sampling and built exposure profiles. Lauren can frequently be found working downstairs, studying with other students, or hard at work on her final project, an examination of ventilation in traditional Kenyan homesteads.

MOH Student of the Year Award – Dr. Hansjorg Schwertz
Dr. Hansjorg Schwertz comes to us from Germany, where he earned his M.D. at the Universitätsmedizin der Johannes Gutenberg. He has completed a two-year internship/residency in cardiology, a postdoctoral fellowship in Human Molecular Biology, and a year’s internship in Internal Medicine. While at the Center, he has worked on a variety of projects, including a recent grant proposal to study blood-platlet producing cells (megakaryocytes) in space. He has 43 peer-reviewed articles published, with 14 as first author. Hans is an active and valuable contributor to weekly Journal Club meetings, where he routinely offers insightful comments.

Research Student of the Year Award – Melynda Schrieber
Melynda Schrieber came to the Ergonomics & Safety program as a Ph.D. student with a background in Mechanical Engineering and Biomechanics and Movement Science. Her current research focuses on motor control user intent, predicting occupational risks in workers, and 3D printing. She pioneered the advanced 3D printing capabilities in the Ergonomics Lab and was instrumental in designing and fabricating devices for rehabilitation. She has recently been pursuing interests in data science and is the leader of the student section of the American Society of Safety Professionals (ASSP). Melynda is known for her thoughtfulness and willingness to help others with their research.

Staff of the Year Award – Courtney Phillips
Courtney Phillips is a relatively recent arrival at the Center (she began in July 2018) but her work has already made itself well known to everyone here. Courtney has a background in student support and years of experience working in academic programs at the University of Utah. As Graduate Advisor, Courtney works with students to ensure that they are on track for graduation and to smooth the speedbumps they experience along the way. However, she is also an active recruiter and marketer for the Center. In addition to all this, Courtney facilitated a successful Graduate Review, earning rave reviews from reviewers and faculty both.
At the Rocky Mountain Center, our students are supported by a number of generous scholarships that enable them to focus on scholarship, research, and community engagement during their time here. We believe strongly in the power financial support holds to elevate and transform the learning experience, so much so that several members of faculty and staff here at RMCOEH regularly contribute to these scholarships. We hope you will consider joining them in supporting our students in their academic journeys. The following scholarships are available for donations:

**Jessica Hanford Scholarship:** This unusual scholarship brings together the disciplines of science with the humanities to award a graduate student in good standing who writes an original poem on the subject of the occupational health and safety.

**Richard Johns Scholarship:** Established by the family of Dr. Johns in his memory and to honor his legacy of education and scholarship. The RMCOEH awards individual scholarship(s) for use for student training at the RMCOEH. Scholarship funds may be used for tuition, fees, and full-time academic expenses.

**Royce Moser Scholarship:** From the Royce Moser, Jr. and Lois H. Moser Endowed Scholarship, this award supports an outstanding student in Occupational Health. The amount awarded varies in response to the recommendations of the scholarship committee.

**Dr. Paul S. Richards Safe Workplace Scholarship:** WCF Insurance generously established this scholarship to assist graduate-level students studying occupational medicine, safety and ergonomics, industrial hygiene, and occupational injury prevention at RMCOEH. Individual scholarships are awarded, and funds may be used for tuition, fees, and full-time academic expenses.

If you would like to join our faculty and staff in making a tax-deductible donation to support any of these scholarships, please contact Sheri Carp at sheri.carp@hsc.utah.edu.
STUDENT SPOTLIGHTS:
The RMCOEH Past and Present

Research Projects from this semester's graduating class:

Lauren Haggerty: The Thermodynamics of Indoor Air Pollution

Hannah Phillips: Taking the LEED in Indoor Air Quality: Does Certification Guarantee Safety?

Jared Stenberg: Indoor Air Quality Measurements in a Rocky Mountain West Tribal Community

Jacob Thomas: Pilot Study Predicting Body Core Temperatures in Hot Work Environments Using Thermal Imagery

Alumni Update: Love & Safety

Since leaving the RMCOEH in 2012, Travis Steele (Ergonomics and Safety) and Rahila Andrews (Occupational Medicine) were married at the Alumni House at the University of Utah, where they were surrounded by family, friends, and nature. Shortly thereafter, Rahila moved to Kansas to start her career as an attending physician in occupational medicine at Mercy Regional Center in the underserved community of Manhattan. Travis continued his education at Kansas State University in pursuit of his dream to teach. In 2015, their union was blessed with the addition of feisty little boy, Remington. Remy adores pizza, parks, cartoons, and his older sister, Ava, the best "sissy" a boy could ask for.

In 2016, they decided to move closer to family and arrived in Bakersfield, California. Rahila joined the Southern California Permanente Group in their division of Occupational and Environmental Medicine. Travis began teaching mathematics at California Aeronautical University. He then joined the Engineering Department at Bakersfield College as an adjunct before becoming a full-time engineering professor at BC, where he enjoys regaling students with stories of the U’s functional anatomy class and encouraging them to pursue engineering. In their free time, the Steeles enjoy traveling to the many festivals and beaches available to them in sunny central California.
The 17th Annual National Occupational Research Agenda (NORA) New/Young Investigators Symposium

The Rocky Mountain Center for Occupational and Environmental Health and the Department of Mechanical Engineering announce our seventeenth annual symposium designed especially for Young/New Investigators! The goal of this conference is to assemble interested students (undergraduate and graduate) and young/new investigators from Region 8. Visit https://nora.mech.utah.edu for more details.

Previous NORA presentations have included:

- Indoor Marijuana Grow Operations: Estimation of Fungal Burden Utilizing the Environmental Relative Moldiness Index (ERMI)
- Characterization of CO and NO2 Exposures of Ice Skating Rink Maintenance Work
- Pilot Study Predicting Body Core Temperatures in Hot Work Environments Using Thermal Imagery
- Comparison of dynamic coefficient of friction between normal and slip-resistant footwear using an ankle/foot simulator robot

Special Presentations:

Opening Keynote Speaker:
Sarah A. Felknor, DrPH, MS from NIOSH
“Expanded Focus for Occupational Safety and Health”

Dr. Paul S. Richards Endowed Distinguished Visiting Lectureship in Occupational Medicine:
Donald C. Sinclair, II, J.D.
“The Role of the Epidemiological and Exposure Sciences in the Resolution of Medicolegal Disputes”

Note: The Richards lecture is free and open to the public (registration required).
Keeping Our Communities Safe

The 4th Annual Disaster & Emergency Preparedness Symposium

ABOUT

The Annual Disaster & Emergency Preparedness Symposium is a forum for all members of the private or public sectors who are engaged or associated with planning for, managing, or responding to disasters/emergencies. At this year’s symposium, topics of discussion will include “Preventing and Surviving School Violence,” “Life after Columbine,” “Drone Surveillance for HazMat Events,” as well as cyber security and response to cyber attacks. The day will cap off with an active shooter exercise led by Mike Smith, Utah County Sheriff.

The symposium will be held June 20, 2019 at Ecker Hill Middle School, Park City, UT.

Registration on or before 6/13 is $59
Registration after 6/13 is $79

KEYNOTE ADDRESS

A State in Crisis: The Utah Opioid Epidemic and Current Solutions

Presented by Brian Besser, U.S. Drug Enforcement Administration (DEA), Salt Lake City Office

Brian Besser currently serves as the DEA District Agent in Charge for the State of Utah. Agent Besser is responsible for overseeing all of DEA’s operational and administrative efforts throughout the state’s twenty-nine counties.

He also serves as the Commander of the Metro Narcotics Task Force—a multi-agency partnership comprised of over fifteen local, state, and federal law enforcement organizations.

Continuing Education Upcoming Courses

<table>
<thead>
<tr>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
</tr>
</thead>
<tbody>
<tr>
<td>•Respiratory Protection &amp; Fit Testing</td>
<td>•Asbestos Project Designer Refresher</td>
<td>•8-Hour Hazwoper Refresher</td>
<td>•Lead Safety for Renovation, Repair and Painting (LRRP)</td>
</tr>
<tr>
<td>•8-Hour HAZWOPER Refresher</td>
<td>•Asbestos Contractor/Supervisor Refresher</td>
<td>•40-Hour HAZWOPER Training</td>
<td>•Asbestos Project Designer Refresher</td>
</tr>
<tr>
<td>•Lead Safety for Renovation, Repair, and Painting (LRRP)</td>
<td>•Asbestos Inspector/Management Planner Refresher</td>
<td>•Asbestos Inspector Training</td>
<td>•Asbestos Contractor/Supervisor Refresher</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>•Asbestos Inspector/Management Planner Refresher</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>•40-Hour HAZWOPER Training</td>
</tr>
</tbody>
</table>

For additional information and/or to register, visit https://medicine.utah.edu/rmcoeh/continuing-education/