



MONTANA TECH WEEKLY UPDATE

August 26, 2024

IN THIS EDITION

Are you Interested in Drones?

Public Lecture Series: R. Mark Bricka

New Employee Reception

Career Fair Welcome Social

Register for the Career Fair

Career Fair Volunteers Needed

Upcoming Career Services Employer Events

Driver's Safety Training for Campus

Password Reset Tool

Security

Ensuring Efficient I.T. Support: Please Submit A Ticket for Assistance

UPCOMING CAMPUS EVENTS

8/26: Classes begin

8/27: Pilates (12:00 pm, HPER 140)

8/28: Wellness Wednesday

8/29: Weights (12:00 pm, HPER 140)

8/29: Copper Game (6:00 pm, Bob Green Field)

9/2: Labor Day

9/4: Club Rush (10:00 am-2:00 pm, Courtyard)

9/6: Public Lecture by R. Mark Bricka (3:00 pm, Copper Lounge)

9/9: Tony Banovich Invitational Cross Country Meet (Highland View Golf Course)

9/10: New Employee Reception (3:30-5:00 pm, Chancellor's Residence)

9/13: Volleyball vs Rocky Mountain College (7:00 pm, HPER)

9/18: Career Fair Social (4:30 pm, SUB)

9/19: Career Fair (8:00 am, HPER)



ARE YOU INTERESTED IN DRONES?

If so, a couple **short information sessions** on Montana Tech's UAS (drone) classes and certificates will be held on the dates below. All sessions are the same, so please attend the one that works best. All sessions will be held from 12:00 pm to 12:30 pm in MG 204.

Tuesday, August 27, Wednesday, August 28, or Thursday, August 29

This semester, we are offering UAS 401 and GeoE 481 as condensed weekend classes, as usual. We are also offering UAS 402 flight lab (and UAS 499 capstone). And the UAS 494/594 seminars will be held Mondays from 2-330 with the first speaker in September. All of these are 1-credit classes so easy to fit into your fall schedule!

We will also have some information available about Tech's student **Drone Club**. If you can't make these sessions but have questions, feel free to contact Professor Mary MacLaughlin in MG 213B or via email at mmaclaughlin@mtech.edu.

Faculty colleagues, if you would like to participate in the information sessions, feel free to join me for any or all of them. And if you would like anything mentioned about your drone work, etc, feel free to send text or slides.

Hope to see you there!

PUBLIC LECTURE SERIES: R. MARK BRICKA

Montana Tech's Public Lecture Series will host R. Mark Bricka, PhD, PE, from the Dave C. Swalm School of Chemical Engineering at Mississippi State University on **Friday, September 6, 2024** at 3:00 pm. His presentation is titled, Evaluation of Remediation Technologies. The presentation will take place in the Copper Lounge or via Microsoft Teams, Meeting ID: 299 288 159 858; Passcode: NJ9xZX.

Dr. Bricka has been a Professor in the Dave Swalm School of Chemical Engineering at Mississippi State University since 2001. Prior to that, he was employed as a Research Chemical Engineer and later as a Research Environmental Engineer with the US Army Corps of Engineers, US Army Engineer Waterways Experiment Station (WES), Environmental Laboratory (EL), Environmental Engineering Division (EED). His current area of research focuses on alternative energy sources and the physical and chemical treatment of inorganic contaminated media. Dr. Bricka's current research program includes a wide scope of topics ranging from the development of

gasification and pyrolysis to innovative techniques for the treatment of soil at small arms.

The primary goal of the United States Military is to train and equip troops to maintain military readiness to defend the US and its interests. Small arms range (SAR) training represents a major element in keeping the military ready to accomplish this.

Projectiles utilized as part of SAR training have accumulated in the soil at the SARs as a result of many years of use. These projectiles are composed of toxic metals, such as lead and copper. The projectiles, with weathering, can transform from a relatively insoluble elemental to an highly mobile ionized complex. This transformation increases the mobility of the metal which may allow it to migrate to surface and ground water sources. Due to the metal's toxicity, the SAR may pose a threat to humans and the environment.

Studies show that treating the soil with phosphate-based binders may react with the metals, which results in lowering the solubility of the lead and other metals. The phosphate based-binders react with the metal ions, such as lead, to form insoluble metal phosphate complexes called pyromorphites as shown in equation 1: $10M^{2+} + 6H_2PO_4^- + 2OH^- \rightarrow M_{10}(PO_4)_6(OH)_2 + 12H^+$ Eq (1).

Research was conducted to determine the relative size of the SAR issues as well as investigating technologies that can be used to prevent or slow the migration of metals from SARs. This presentation will discuss the widespread contamination potential of military SARs and briefly present introduce separation techniques, phosphate addition to SARs to slow metal migration and a phytoremediation study and its impacts on lead contaminated soil.

The lecture is presented by the Montana Tech Graduate Student Advisory Board and the Office of Research.

NEW EMPLOYEE RECEPTION

The new employee reception is for all employees hired on or after June 1, 2024, and their managers. The reception will be held at the Chancellor's Residence on **September 10** from 3:30 to 5:00 pm.

CAREER FAIR WELCOME SOCIAL

Join Career Services and our employers who help give our students their great outcomes for hors d'oeuvres, drinks, and conversation. This year's social will take place on **September 18** at 4:30 pm in the SUB Lobby and Copper Lounge to kick off the Career Fair.

REGISTER FOR THE CAREER FAIR

The 24th Annual Career Fair is **September 19** starting at 8:00 am. Students should

register today and check out all the employers who are coming to campus like ProFrac, Enterprise Holdings, Freeport-McMoRan, Nomad GCS, and Nucor. Go to DiggerRecruiting-DR 2.0 to sign up for the event and all the other employer events on campus. Be sure to upload resumes early to ensure timely feedback in time for the Career Fair.

CAREER FAIR VOLUNTEERS NEEDED

Career Services is looking for volunteers for the 24th Annual Career Fair on **September 19 and 20** in the HPER. Please check out the Career Fair Volunteer Sign Up Sheet to pick a slot that would work for you. We need most of our help during setup on the 18, Career Fair opening 7:00 am-10:00 am on the 19th, and after 3:00 pm on the 19th and 20th for taking down the event. The Career Services team appreciates your help.

UPCOMING CAREER SERVICES EMPLOYER EVENTS

Career Services is working with employers to help find students jobs. We have arranged for several to come to campus. Go to DiggerRecruiting-DR 2.0 and register for any of the following upcoming events.

- **9/4:** St. Luke's Virtual Presentation (1:00 pm, [Online](#))
Recommended Majors: Nursing, Radiologic Technology
- **9/5:** Reiloy USA Pizza Party, (11:00 am, ELC 225)
Recommended Majors: Metallurgical Engineering
- **9/6:** Jackson Contractor Info Session, coffee and snacks provided, (10:00 am, Big Butte/Highlands Room).
Recommended Majors: Civil Engineering, Civil Engineering Technology, Construction Management, Construction Technology-Carpentry, Occupational Safety and Health
- **9/10:** St. Luke's Virtual Presentation, 1:00 pm, [Online](#))
Recommended Majors: Nursing, Radiologic Technology
- **9/10:** John Deere Info Session, pizza provided (12:00 pm, Kelly/Steward)
Recommended Majors: Civil Engineering, Civil Engineering Technology, Electrical Engineering, Engineering, Mechanical Engineering, Welding Technology
- **9/10:** HDR Pizza Info Session (4:00 pm, Mountain Con Room)
Recommended Majors: All Engineering,
- **9/17:** NUCOR presents Confidently Approaching Your Employer Workshop, catering provided (11:00 am, Copper Lounge) Recommended Majors: All
- **9/18:** NUCOR Info Session, catering provided (11:00 am, Copper Lounge)
Recommended Majors: All
- **9/18:** Warrior Met Coal Info Session, refreshments provided (5:30 pm, Mountain Con Room)
Recommended Majors: All

- **9/18:** U.S. Patent & Trademark Office Info Session 11:00 am, SSC Journey Room)
Recommended Majors: Bio Sciences, Chemistry and Geochemistry, Electrical Engineering, Mechanical Engineering, Software Engineering
- **9/18:** Puget Sound Naval Shipyard Info Session with free pizza (3:30 pm, Big Butte/Highlands Room).
Recommended Majors: All
- **9/18:** Chevron Info Session (5:00 pm, Kelly/Steward)
Recommended Majors: Petroleum Engineering, Environmental Engineering, Occupational Safety and Health, and Industrial Hygiene
- **9/19:** Freeport-McMoRan with free dinner (3:00 pm, Big Butte/Highlands Room)
Recommended Majors: All Engineering
- **9/19:** Pizza Party with St. Lukes (4:00 pm, HSB 008)
Recommended Majors: Nursing, Radiologic Technology
- **9/23:** Convo and Coffee with ConocoPhillips, coffee and snacks provided, drop-ins welcome (7:00 am-11:00 am, Big Butte/Highlands)
Recommended Majors: All Engineering, Occupational Safety and Health, Industrial Hygiene, Welding, Computer Science

DRIVER'S SAFETY TRAINING FOR CAMPUS

This online/self-paced course, offered by Risk Management and Tort Defense (RMTD), is full of information on driving a large vehicle with occupants or gear for the university system. The course is designed to educate drivers on operating a wide variety of vehicles for MUS campuses. It expands coverage of defensive driving tips applicable to all motor vehicles while retaining information about the special techniques needed to safely drive the full-size sport utility vehicles and small buses still used by campuses. It also explains Board of Regents' driving policies and the stricter policies set by some campuses. Finally, it teaches what a driver should do if they are involved in a crash while driving on MUS business. The training is highly recommended if any MUS vehicle will be driven, and the training can be taken by any faculty, staff, or student of the university who can drive. Register [here](#).

PASSWORD RESET TOOL

If you've not signed up for the Password Reset tool, please do so. This tool will make it easier for you to reset your password or unlock your account as needed. If users do not sign-up for this tool, they will need to present a photo I.D. to IT Helpdesk any time their account is locked or they need to change their password. Please click [here](#) and follow the step-by-step instructions to get the Password Reset Tool. If you have problems, contact the IT Helpdesk at ithelpdesk@mtech.edu or 406-496-4244.

SECURITY

Phishers often send links via email or text that look legitimate, but once clicked on, allow them to steal your information. Email attachments that contain malware are also popular vessels for cyber mayhem. The easiest way to avoid these scams is by not clicking the links or attachments. Instead, open another tab, and go to the website of the company in the email or link to see if the information presented matches the official source. As a general rule, never open links or download attachments from unknown senders. Emails from known senders that contain links or attachments without any context are also bad news.

ENSURING EFFICIENT I.T. SUPPORT: PLEASE SUBMIT A TICKET FOR ASSISTANCE

In order for Information Technology to provide you with prompt and efficient service, we kindly request that you submit a support ticket for any assistance you require. Our ticketing system is designed to forward your ticket to the appropriate person/team automatically. Using this system will ensure your need can be met, even if the person you normally work with is not available. You can submit a ticket by navigating to:

<https://my.mtech.edu> and clicking the Tech support icon or <https://kb.mtech.edu> (IT Technical Support)

Tip: Sign in to the system before utilizing the search feature (next to the Sign In button). This will allow your search to find documents and services that are applicable to you!

By centralizing communication through the ticketing system, we can maintain accurate records of your inquiries and responses, ensuring a more organized and effective troubleshooting process. We understand the convenience of direct contact, but we believe that using the ticketing system will ultimately provide a better overall experience for you. Rest assured, your inquiries are important to us, and we are dedicated to resolving any concerns you may have. If you encounter any difficulties or have any questions about the ticketing process, please feel free to contact I.T. Helpdesk at 406-496-4244 and we will be more than happy to guide you through the steps, or facilitate your request for you.

