



# MONTANATECH WEEKLY UPDATE

**October 14, 2024**

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## **UPCOMING CAMPUS EVENTS**

### **10/15:**

E.M. Tech Open House (1:00 pm, CBB006/CBB009)  
Pilates w/Katie Hailer (12-1, HPER 140)

### **10/16:**

Wellness Wednesday (2 pm, ccrooker1@mtech.edu for info)  
E.M. Tech Open House (1:00 pm, CBB006/CBB009)

### **10/17:**

Weights w/Blaine Berrington (12-1, HPER 140)  
Construction Management Scholarship Info Session (5:00 pm,  
Kelley/Steward Room)  
Hockey vs MSU (7:00 pm, Butte Community Ice Center)

### **10/19:**

Football vs Simpson University (1:00 pm, Bob Green Field)  
Volleyball vs Carroll (6:00 pm, HPER)

### **10/22:**

Pilates w/Katie Hailer (12-1, HPER Rm. 140)  
Public Lecture Series (4:00 pm URC Poore Room or Teams)

**10/23:** Wellness Wednesday (2 pm, ccrooker1@mtech.edu for  
info)

### **10/24:**

Weights w/Blaine Berrington (12-1, HPER 140)  
Harvest Hurrah (3:30-5:00 pm Copper Lounge)  
Movie: The Life You're Given (6:00 pm, Auditorium)

### **10/26:**

Football vs Rocky (1:00 pm, Bob Green Field)  
Volleyball vs University of Providence (6:00 pm, HPER)

### **10/29:**

Wellness Fair (11:00 am-2:00 pm, SUB)  
Pilates w/Katie Hailer (12-1, HPER 140)

Automatic Door Lock  
Exceptions

FIRST Tech Challenge  
Robotics Qualifier

Montana Tech Login  
Changes

Course Evaluation Changes

Changing Your Password

**10/30:**

SBIR Lunch & Learn (12:00 pm, Copper Lounge)  
Wellness Wednesday (2 pm, ccrooker1@mtech.edu for info)  
Volleyball vs Carroll College (7:00 pm, HPER)

**10/31:**

Weights w/Blaine Berrington (12-1, HPER 140)  
Blood Drive (10:00 am-3:00 pm, HPER Dance Studio)  
Campus Store Halloween Contest (10:00 am - 3:00 pm)  
Trick-or-Treat Off the Streets



## E.M. TECH OPEN HOUSE

Montana Tech's Hitachi 7820 with Oxford80 EDS functionality is officially installed and operational! Please join us for an open house for the E.M. Tech on **Tuesday, October 15** and **Wednesday, October 16** at 1:00 pm CBB006/CBB009. Come to either session to meet Dr. Jim Driver, learn the capabilities of the scanning transmission electron microscope, and discuss how your research could benefit from this instrument. EMAT 571 – SEM, a 3-credit graduate-level course, is offered for spring semester 2025, for in-depth training opportunities. To learn more, visit <https://www.mtech.edu/emtech/>. For questions, email [jdriver@mtech.edu](mailto:jdriver@mtech.edu). To make an appointment for use of the HT7820 TEM, email [emsignup@mtech.edu](mailto:emsignup@mtech.edu).



## 2024 INTERNSHIP PHOTO CONTEST

Please vote for your favorite photo taken by students on their internship. The link will take you to a selection of 25 photos. At the bottom of the survey, choose your top 3 photos. One lucky intern will get an assortment of Montana Tech swag and a gift card from the Campus Store! Vote here.



## HARVEST HURRAH

Please join us for a Harvest Hurrah on **October 24** from 3:30 pm to 5:00 pm in the Copper Lounge. It's been a phenomenal start to the academic year. Let's celebrate all things good at Montana Tech. Join ASMT, Faculty Senate, and

Staff Senate for a fun afternoon to celebrate research award recipients, faculty P&T, student prospectors, new faculty and staff as well as our campus community. Please RSVP to the calendar invite when it is sent. Treats and refreshments will be served.



## CALLING ALL CANDY CRUSADERS! TRICK-OR-TREAT OFF THE STREETS RETURNS!

Get ready for a hauntingly good time! The Associated Students of Montana Tech (ASMT) is bringing back the beloved Trick-or-Treat Off the Street event this Halloween, **Thursday, October 31st**.

To make sure every little ghoul and goblin goes home with a sweet treat, we're seeking your help! Donate your favorite Halloween candy or contribute financially to fuel the fun. Donations can be dropped off at the main desk in the Student Union Building.

**Together, let's create a safe and spooktacular Halloween for the community!**

For questions, reach out to Madeline Thomas at 406-496-4458 or [mthomas3@mtech.edu](mailto:mthomas3@mtech.edu).



## 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.

- **10/14, 10/15, 10/29:** St. Luke's Nurse Apprenticeship Program Virtual Meeting (Various Times, [Online](#)). Recommended Majors: Nursing
- **10/15:** Native American and Indigenous Work Force Virtual Career & Grad Fair (9:00 am-1:00 pm, [Online](#)). Recommended Majors: All
- **10/17:** Engineering Grad School Virtual Fair (9:00 am-1:00 pm, [Online](#)). Recommended Majors: All Engineering
- **10/17:** TxGAP Fall Graduate Fair (10:00 am-2:00 pm, [Online](#)). Recommended Majors: All

- **10/18:** POND Info Session (4:00 pm, SUB 105/Mountain Con). Recommended Majors: All Engineering, Computer Science, Data Science, General Science, Software Engineering, Information Technology
- **10/29:** Virtual Veterinary Career Information Session, must register by 10/24! (12:00 pm, [Registration](#)). Recommended Majors: All



## ARE YOU FIRST GENERATION PROUD? TAKE THIS SURVEY TO FIND OUT!

In our run up to this year's national First Generation Day Celebration on **November 7th**, Montana Tech and TRIO Student Support Services (SSS) are asking all faculty, staff, and students to complete this [short survey](#) to help us better serve the First Generation population of Montana Tech. TRIO SSS will draw prizes for faculty/staff and one for students who participate in this two-question survey. All participants who are First Generation will also receive a Montana Tech "1st Generation PROUD" sticker.

Montana Tech and the Institute for Educational Opportunities are dedicated to creating a culture of support for First Generation students, staff, and faculty at Montana Tech and share the stories of those who have taken the journey before them.



## CONSTRUCTION MANAGEMENT SCHOLARSHIP INFORMATION SESSION

Join the Civil Engineering Department for an informative session on Construction Management scholarships on **October 17** from 5:00 PM - 6:00 PM in SUB 113AB - Kelley/Steward Room. This event is an excellent opportunity for students to learn about available scholarships, the application process, and tips for increasing your chances of being awarded. You'll also have the chance to meet faculty members and network with fellow students. Whether you're a current Construction Management student or considering the field, this session will provide valuable information. Food and refreshments will be provided.



## OCTOBER IS DISABILITY AWARENESS MONTH

October is Disability Awareness Month, and the Office of Disability Services is sponsoring a film telling the story of one family's 35-year journey with Prader-Willi Syndrome. This genetic condition, which causes insatiable appetite paired with very low metabolism (among other issues), is rare, but is still the most common genetic cause for childhood obesity and is life-changing for the entire family. Join us on **October 24** from 6:00 pm to 8:00 pm in the Montana Tech Auditorium for the film and a Q&A with the family who made the film and a local family with a son with the same disorder. You can view a trailer of the film on Facebook: [The Life Your Given](#).



## HANDS-ON CANVAS WORKSHOP

The Center for Academic Innovation is now offering a schedule for in-house training in Canvas that begins next Monday. These trainings will be held in the CAI Training room (ENGR 205) EXCEPT for the hands-on workshops, which will be in ENGR 204 on Oct. 11 and Highlands 116 on Oct. 18 (additional dates will be coming). You can register for all sessions through [CAI Training Schedule](#) or by going to the [CAI website](#), where we have a [catalog](#) now of trainings that we have ready to go. In addition, you can request sessions through the Outlook [CAI Training Request](#) page for specific groups. These can be on topics already scheduled or can be special requests.

All of the current dates are on the North campus; however, dates are being set up on the South campus as well. Please watch for additional information to come soon. Thank you, and we hope to see you there!



## CHANCELLOR SEARCH UPDATE

The search for Montana Tech's next chancellor has launched. We encourage you to visit the search webpage [here](#). On the site, you can find the position description and expectations, search committee, and eventually the finalists once determined. Please share the page with individuals you have worked with or know who could be a good fit. Actively recruiting qualified candidates will improve the pool and allow us to hire the best next chancellor.



## BOWL FOR KIDS SAKE

Staff Senate is once again participating in this year's Bowl for Kids' Sake. We will be bowling on **November 16** at 5:00 pm at Star Lanes. We have 12 team members including staff senators and others from the Montana Tech family joining us this year. The theme for this year is "Woodstock." Each team member is asked to raise \$150, all funds raised through this event are used to help children in our community! If you are interested in making a pledge, reach out to any of the team members: Mike Haldane (Team Captain), Jenna Snow, Ice Demus, Katie Bigbee, Barb Cass, Quinn Kendall, Casandra Welch, Mark Armstrong, Laurie Vandel, Kinsley Rafish, Kade Kuder and his wife Maria Kuder. Thank you for your support.



## PUBLIC LECTURE SERIES

The next public lecture will be Circular Pathways for Critical Materials through Advanced Industrial Processes presented by Dr.-Ing Nikolaus Borowski, Global Head of Sales Non Ferrous Metals & Alloys, SMS Group GmbH on **Tuesday, October 22** at 4:00 PM in the University Relations Center Poore Room *or join via Microsoft Teams—Meeting ID: 262 481 304 14 ; Passcode: 3tYNxs.*

Achieving a sustainable, carbon-neutral metals industry is imperative, and the circular economy (CE) plays a central role in this transformation. The SMS group is at the forefront of driving this shift, utilizing a comprehensive range of technologies to reshape metal-making processes worldwide. This presentation explores how the CE model—aimed at avoiding waste and promoting the continuous re-use of resources—can minimize resource consumption, energy use, and carbon emissions, thereby enabling a sustainable future.

Given the increasing global demand for metals, especially non-ferrous ones used in daily electronic devices, innovative recycling solutions are essential. Current trends project that resource extraction will reach 180 billion tons per annum by 2050, necessitating that over 30% of these come from secondary sources. This presentation will illustrate SMS group's advanced recycling technologies, such as WEEE recycling plants and the BlueMetals technology, which are designed to maximize metal recovery while maintaining economic feasibility.

Digitalization is identified as a key enabler in optimizing resource efficiency and driving the decarbonization of metal production processes. The presentation will discuss the integration of digital twins and other digital solutions that facilitate detailed data analysis and process optimization, ultimately contributing to reduced carbon footprints.

Although achieving a fully carbon-neutral metals production is challenging due to thermodynamic and social factors, SMS group has identified five main decarbonization measures: digitalization, energy optimization, alternative fuels, electrification, and carbon capture. These strategies, along with SMS group's comprehensive recycling solutions for various metal-bearing materials, underscore the company's commitment to an environmentally responsible metals industry.

The presentation will assert the need for interconnected solutions that combine process expertise, plant design, and automation systems to meet the demands of a circular economy, thereby fostering a socially compatible and environmentally sound metal production industry.

Nikolaus has extensive experience in the metallurgical industry, specializing in non-ferrous metals. Currently, he serves as the General Manager for the Non-Ferrous Metals and Alloys department at SMS group GmbH, overseeing projects aimed at delivering innovative solutions for the industry. In his previous roles as a Project Manager, he led several innovative industrial projects optimizing and developing the metal and e-waste recycling processes. He holds a Ph.D. from the Institute of Process Metallurgy and Metal Recycling (IME) at RWTH Aachen University, where he managed innovative projects contributing to advancements in the field of e-waste, metal and lithium-ion battery recycling. With a strong commitment to sustainability and decarbonization, Nikolaus is dedicated to shaping the future of the non-ferrous metals industry.



## **VOLUNTEERS NEEDED FOR RIPPLE'S WATERSHED SCIENCE PROGRAM**

The field season is in full swing, and if you are passionate about sharing science and the story of our watershed with East Middle School student by running a macroinvertebrate sampling, a water quality testing, or riparian assessment station, please consider volunteering for **October 22** and/or **October 24**. Field trips times are from 8:00 am to 12:00 pm. Do you need to be an expert? Absolutely not. The most important thing a volunteer can have is enthusiasm. The Ripple Staff will train you at a station to ensure you are prepared to help lead students. If you have a particular station you are



interested in, let us. Please sign up through our website, [cfwep.org/volunteer](http://cfwep.org/volunteer) or contact Tammy Gordon at [tgordon@mtech.edu](mailto:tgordon@mtech.edu) or 406.496.4136.



### **SBIR LUNCH & LEARN: FUNDING YOUR INNOVATION**

The Montana Innovation Partnership (MTIP) works with entrepreneurial researchers and small businesses across Montana competing for over \$4 billion in non-dilutive federal funding grants and contracts awarded annually through America's Seed Fund - the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) program.

Join us in the Copper Lounge on **October 30** from 12:00 pm to 1:30 pm for this free Lunch & Learn to learn more about SBIR/STTR, how the program works, technologies that you use every day that were developed using this type of funding, Montana success stories, and free resources available to Montana tech-entrepreneurs and startups to help navigate the competitive application process. Register [here](#).



### **AUTOMATIC DOOR LOCK EXCEPTIONS**

Do you have an event or a class coming up, and will need the automatic doors to your building unlocked outside of their regularly scheduled times? Do you need your building to lock down earlier than usual for a week? The DiggerCard Center is here to help! Simply email [mhaldane@mtech.edu](mailto:mhaldane@mtech.edu) with all the pertinent details, and Mike can make the necessary adjustments for you! Questions? Concerns? Email Mike Haldane in the DiggerCard Center and he will happily assist you!



### **FIRST TECH CHALLENGE ROBOTICS QUALIFIER**

On **November 22 and 23**, Montana Tech will be hosting the FIRST Tech Challenge Robotics Qualifier. The event needs volunteers to help judge, set up, take down, referee, queue etc. To volunteer, please email [bhill@mtech.edu](mailto:bhill@mtech.edu).





## MONTANA TECH LOGIN CHANGES

In order to bring multi-factor authentication to all users in the most cost effective manner, Montana Tech will be transitioning from Shibboleth/DUO to Microsoft Authentication/MFA. Both systems use the same backend so your password will carry with you throughout the process. This project is being done in phases, with this being the 'TRANSITIONAL' phase.

Once this phase is complete, we will provide further information on what to expect and when. See what you can expect the login screen to look like during the transition and learn more about this project at [Article - Authentication-Transition P... \(teamdynamix.com\)](#).

If you have questions after reviewing the article? please email IT Helpdesk at [ithelpdesk@mtech.edu](mailto:ithelpdesk@mtech.edu), or phone at 406-496-4244.



## COURSE EVALUATION CHANGES

The Online Course Evaluation method is now the default method for conducting course evaluations.

Previously if you wanted to have your course evaluation conducted via paper, you did not need to perform any action as that was the default. **This year the process has changed.**

Instead of opting in for the online course evaluation, you will need to opt out if you prefer to have your course evaluation conducted via the paper method. Directions are listed below.

**If you prefer the online method no action is necessary.**

**If you want to conduct your evaluation via paper, you will need to navigate to <https://webapps.mtech.edu/surveys> and delete your course from the list.**

If you need further assistance, please contact our IT Helpdesk at 496-4244.



## CHANGING YOUR PASSWORD

With the Holiday season fast approaching, Information Technology would like to remind you to reset your password before the break. Passwords expire yearly, so if you do not reset your password prior to the break, you may return to an expired password.

For directions on how to reset your password, navigate to [kb.mtech.edu](http://kb.mtech.edu) and search for 'password reset'. If you need further assistance, please contact our IT Helpdesk at 496-4244.

