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Restoration Seminar (4:00 pm, CBB 101)

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Weights Class (12:00 pm, HPER Dance Room)
Mountain Biking 101 (6:00-8:00 pm, Big Butte Space)

9/22:

Future of Energy Panel (2:15 pm, Auditorium)

9/24:

Community Tree Planting (12:00 pm, East Center Street)

9/25:

MPSEOC College Fair (HPER)

9/27:

Bear Spray Class (11:00 am, Courtyard)

9/27-30:

2023 Montana Mining & Mineral Symposium

9/30:

NICA Mountain Bike Race (Big Butte Open Space)



# **RESTORATION SEMINAR**

This week's Restoration Seminar will be presented by Earth Science and Engineering PhD student Amir Riahi on his research titled "Process Intensification for Carbon Sequestration by Resonant Vibratory Mixing." A multitude of industries such as mining, petroleum, and transportation are responsible for the large CO2 emissions and climate change today. The

Paris climate agreement mandates these industries to cut off their CO2 emissions by 2050. The U.S. Department of Energy has supported research on climate change and related technologies including Energy Efficiency, Renewable Energy, and Carbon Capture and Sequestration (CCS). Among all the CCS technologies, great emphasis has been laid on biochar as an effective post-combustion CO2 capture method. It is accepted that biochar has the potential of a technically and economically efficient way to stabilize carbon capture. However, in all CCS cases, it is critical to understand the factor of the time during which the carbon is captured from the flue gas system or from the atmosphere. Therefore, there is a huge competition between technological breakthroughs for the goal of negative CO2 emissions in the shortest time. The findings in this study revealed a 58% improvement in the CO2 maximum uptake capacity and a 92% improvement in the CO2 uptake time of hemp-based biochar when using the Low-Frequency High Amplitude (LFHA) resonant vibrations.

The presentation will take place on **September 20** at 4:00 pm in CBB 101.

## **MOUNTAIN BIKING 101**

Come learn Mountain Biking 101 on **September 21** at the Big Butte space from 6:00 pm to 8:00 pm. This event is open to all members of the Montana Tech community. Bikes can be rented in the SUB from Katie Bigbee (bigbee@mtech.edu or 4292).

## **FUTURE OF ENERGY PANEL**

Montana Tech is hosting a panel discussion, <u>The Future of Energy</u>, on **September 22**, at 2:15 p.m. in the Library Auditorium. The panel is open to faculty, staff, students, alumni, and community members. For over 100 years, Montana Tech graduates have fueled society by extracting and processing natural resources. Today, many governments are mandating reducing fossil fuel use to mitigate climate change. What does this mean for the petroleum industry? To our electric power grid? Technology? What opportunities are there for Montana Tech graduates in the next forty years? Learn from a panel of globally recognized petroleum, electric power, and environmental experts on why Montana Tech is perfectly positioned to lead the world's energy revolution. Learn more here and view the live stream here.

## **LET'S PLANT TREES**

2023 Community Tree Planting on **September 24** at 12:00 pm at East Center Street with parking at Foreman's Park/Mountain Con Mine. All ages are welcome. Please wear closed toe shoes and bring gloves, water, and towels. If you have questions, contact Abby at 406-497-5045 or apeltomaa@bsb.mt.gov. Sponsored by Butte-Silver Bow, Montana Tech Native Plant Program, and the Butte Natural Resource Council.

### MPSEOC COLLEGE FAIR

On **September 25**, Montana Tech will host our seasonal Montana Post Secondary Educational Opportunities Council (MPSEOC) College Fair. Students from surrounding high schools will be on campus. Guests have been asked to park in both our library parking lot and the parking lot behind the HPER. Please be aware that parking may be limited and alternative forms of transportation may be required to get to main campus. The college fair is scheduled to run from 9:00 am to 11:00 am. We apologize for any inconvenience this may cause and greatly appreciate your understanding. In addition, if

you see any MPSEOC visitors on campus please feel free to welcome and engage with them. This is your opportunity to show High School students why you love the Oredigger family!

## **USING BEAR SPRAY**

Come learn bear awareness and how to properly use bear spray with the Montana Fish Wildlife, and Parks on **September 27** at 11:00 am in the Courtyard. This event is open to all Butte-Silver Bow residents.

### MONTANA MINING AND MINERAL SYMPOSIUM

Join professional and amateur mineralogists, geologists, and miners as they share their knowledge of mineral deposits and stimulate interest in pursuing new studies and discoveries. The Montana Bureau of Mines and Geology is pleased to host the 2023 Montana Mining and Mineral Symposium **September 27–30** at Montana Tech. For more information or to register, click here.

#### **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 using the SSO ID to sign in and register for any of the following upcoming events.

**9/18: Pinion Info Session** – Kelly Steward Room, 4:00 pm, Recommended Majors: business, business and information technology

**9/19: Benefis Health System Lunch & Learn,** HSB 102, 12:00 pm-1:00 pm, Recommended Majors: nursing, CNA

**9/20:** Inside Ovintiv: Exploring Culture and Career Prospects - MG 103, 4:30 pm, Recommended Majors: civil engineering, civil engineering technology, earth science & engineering, engineering, environmental engineering, general engineering, general science, geological engineering, geophysical engineering, materials science engineering, mechanical engineering, metallurgical/mineral processing, mining engineering, occupational, safety and health, petroleum engineering

**9/25:** Hill AFB Civilian Engineering Meet and Greet – Big Butte/Highlands Room, 4:30 pm, Recommended Majors: business, business and information technology, business technology, civil engineering, civil engineering technology, computer networking and cybersecurity, computer science, data science, electrical engineering, general engineering, network technology, software engineering, web development and administration

**9/28: Opta Group Info & Bites:** Kelly/Steward Room (113AB), 4:30 pm-5:30 pm, Recommended Majors: chemistry, engineering, machining technology, materials science engineering, metallurgical & materials engineering, metallurgical/mineral processing, metals fabrication technology, welding engineering

**10/2: St. Luke's Info Session,** Copper Lounge, 3:00 pm-4:00 pm, Recommended Majors: nursing, CNA, pre-nursing, pre-professional health, pre-radiologic technology, radiologic technology

**10/10: CLAYCO Info Session,** Big Butte/Highlands (212), 4:30 pm-6:00 pm, Recommended Majors: civil engineering, civil engineering technology, occupational safety and health

#### ACADEMIC DAY OF INTEGRITY

The Writing Program is hosting an Academic Day of Integrity on **October 18** from 11:00 am to 3:00 pm in the SUB room 212AB. This campus education and outreach event will coincide with the International Day of Action Against Contract Cheating (ICAI), which is sponsored by the International Center for Academic Integrity. Academic Day of Integrity will feature an escape room where students can win great prizes. Contact Cheyenne at crooker1@mtech.edu to reserve your time.



## ATTENTION ZOOM USERS

We are reaching out with a reminder that Zoom will be **enforcing minimum versions as outlined in our Software Lifecycle Policy** on November 4, 2023 (Pacific Standard Time) for all products and services, referenced in the table below. Users who are running an end-of-life version after November 4, will be logged out of their Zoom Client (Desktop, Mobile, and VDI), or not be able to join meetings via the Zoom Client until they update. As always, we highly recommend you regularly download and update to the latest version of Zoom software by checking for updates within the Zoom client or by navigating to zoom.us/download to take advantage of all our latest security and functionality features. The current version is 5.15.12.

Product: Zoom Client: Windows, macOS, Linux, iOS, Android, Intune, and Blackberry

**Min version required as of November 4, 2023:** 5.13.5 (Windows, macOS, Linux, Android, iOS, Intune), 5.13.0 (Blackberry)



## **RESEARCH OFFICE - LIMITED SUBMISSION FUNDING OPPORTUNITY**

# Letter of Intent Guidelines and Review Criteria

Centers for Innovation and Community Engagement in Solid Earth Geohazards

The Centers for Innovation and Community Engagement in Solid Earth Geohazards program supports university-based centers to advance research on the fundamental solid Earth processes that underpin natural hazards. Centers will catalyze, coordinate, and produce transformative research, lead innovation, and enable convergent approaches for systems-level insights that require the collective efforts of a large group of individuals.

Pls interested in participating in the proposal under this opportunity must submit the following as part of their Internal Statement of Intent:

Opportunity Title: Clearly indicate the opportunity title on the first page of your statement of

intent. Please complete the attached LOI.

<u>Project Description</u>: Include a brief description of your project (1-2 pages). This should include an overview of what you propose to do, the project's potential impact, and a list of senior personnel and their institutional affiliations.

<u>Budget</u>: An estimated budget and short budget narrative, if developing/building requested instrumentation.

### **Review Criteria:**

- a. Writing Style: Written in such a way that reviewer can concentrate on the science, rather than trying to make sense of the text (+flow, +clarity, +grammar).
   Organization is clear.
- b. Problem Identification
- c. Clarity of objective
- d. Novelty
- e. Risk and Reward
- f. Advance state-of-the-art
- g. Translation: Will be of interest to industry, scalable, cost-effective and the team understands the role of this fundamental science in their field.
- h. Qualification and prior work
- i. Assessment: Targets identified, Clear measurement of project against targets. Contingency plan.
- i. Outcomes

Please e-mail Letter of Intent to Grants@mtech.edu by 5:00 pm on 10/02/2023.



# **CAMPUS HOSPITALITY**

Please review the information below along with the hospitality policy and the hospitality form that relates to Campus Hospitality. When requesting services through Sodexo (or other vendors if Sodexo is not available), a Hospitality Form must be completed and turned into accountpayable@mtech.edu 7 days before the event takes place.

# Occasions for which the expenses of official hospitality may be approved are limited to the following:

- 1. When the campus is host or sponsor of a meeting of a learned or professional society or organization, the cost of meals or light refreshments may be defrayed by the unit;
- When the campus hosts official guests or prospective appointees for positions requiring specialized training or experience of a professional, technical, or administrative nature, the cost of meals or light refreshments may be defrayed by the campus;

- When meetings of an administrative nature are held which are directly concerned with the welfare of the campus, the cost of meals or light refreshments may be defrayed by the unit. Where meals are involved, they must be a necessary and integral part of the business meeting;
- 4. When meetings between students and faculty or administrators are held, only the cost of light refreshments may be defrayed;
- 5. Receptions for special ceremonies may be approved by the president, chancellor, appropriate vice president or director of student services; and
- 6. Expenses relating to recruitment of prospective students are not considered hospitality and are not included in this policy. These expenses are part of a campus's normal function and as such may be approved by the appropriate department chair, director or dean.



## INFORMATION TECHNOLOGY GENERAL INFORMATION

### CLASSROOM/LAB PROJECTORS

Information Technology would like to ask everyone to please help us maintain our equipment by remembering to turn off the room projectors (or AV system if equipped) when finished. A projector's lifespan and the bulbs they use are based on hours – leaving them on requires them to be replaced much more frequently. The average cost of a bulb is: \$300. The average cost of a projector is: \$2,000. Your presentation may be interrupted if the projector that was left on overheats or fails, which happens when they are left on for extended periods of time. Please do not leave the room projector or AV system on unless you visually see the next person wanting to use it.

**Note:** Shutting off the computer will not shut down the room project or AV system. If you are passing by a room and see a projector that is on and the room is unoccupied, please turn it off. Information on each system is located on the wall in each room.

### **SECURITY**

October is Cybersecurity Awareness Month

The IT Department will be sharing Cybersecurity information throughout the month of October. **Remember:** Always be on the lookout for suspicious and/or malicious emails or websites. Watch for more information in the upcoming weeks.

## INFORMATION TECHNOLOGY HELP

Need help? Please try our knowledgebase at https://kb.mtech.edu. Remember to 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! If you can't find what you are looking for, please submit a service ticket or call 406-496-4244.

