

ADVANCING

Montana Technological University



SEPTEMBER 8, 2022



TODAY'S AGENDA



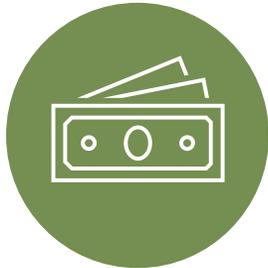
Our Vision and Goals



Celebrating our Legacy, our Focus, our Progress, and our Priorities



Enrollment Highlights



University Budget Team

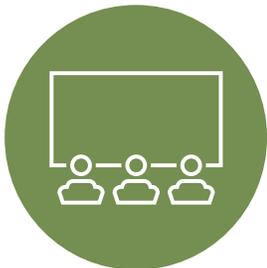


Celebrating Opportunity and Innovation

Metallurgical & Materials Engineering
Centennial Anniversary
Reinventing Highlands College



DayOne



What's Ahead



Thank You

A photograph of two scientists in white lab coats working in a laboratory. The scene is dimly lit with a mix of blue and orange light. One scientist is seated on the left, facing right, while the other is on the right, facing left. They are surrounded by various pieces of laboratory equipment, including a computer monitor and a metal cart. A warning sign is visible on the wall in the background.

OUR VISION
To be the institution of
opportunity and innovation.

OUR GOALS



Student Success



Programs of Distinction



A Healthy and Vibrant
Campus Ecosystem

MONTANA
TECHNOLOGICAL UNIVERSITY



CELEBRATING OUR LEGACY

- Educating and preparing bright, hard-working individuals for meaningful careers and successful lives
- Producing research that has impacted our state, the nation, and the world
- Proud to boast the state's highest ROI, retention, and lowest debt upon graduation
- And proud that our laudable past and incredibly bright future has been defined by great faculty, strong programs, and committed and talented people

OUR FOCUS

- Enhancing and supporting our excellent academic programs.
- Enhancing the success of our students in those academic programs and after graduation.
- Strengthening our enrollment.
- Telling our story loudly and effectively.
- Positioning Montana Tech for the future.

OUR PROGRESS

Approval for our second Ph.D. as well as a new master's degree in restoration ecology

Investing \$2.5 million in laboratory spaces and information technology

Constructed and opened a world-class nursing simulation center

Earned the highest research funding awards in our history

Received over \$1M for workforce development

Dedicated the Schweitzer Engineering Laboratory Power Systems Labs

Received our largest philanthropic gift

Introduced two new collegiate sports: cross country and track & field

Opened newly renovated \$1M dining hall

Completed a new strategic plan

Brought in the largest first-year class since 2014

And more...

OUR PRIORITIES

- Finalize and launch strategic plan initiatives
- Develop a forward-thinking plan for employee retention and compensation
- Establish key university performance indicators and dashboard
- Redefine budget team role and membership and increase transparency in the budget process
- Launch Montana 10 initiative
- Establish a summer school task force
- Establish a financial aid, scholarship, and tuition review team
- Complete year 6 – Standard Two, Policies, Regulations, and Financial Review (PRFR)
- Complete university policy review, establish website repository
- Successfully complete collective bargaining agreements
- Assemble team to define master planning next steps
- Begin phase one and phase two of the steam heating upgrade
- Complete construction of the Montana Bureau of Mines and Geology storage facility
- Hire new provost/vice chancellor for academic affairs



ENROLLMENT SNAPSHOT

- 90% of students who were here in the spring (and were eligible to register) re-enrolled this semester.
- New first-time students almost flat with last year, new transfer students are down
- Total headcount and FTE are down
- Approximately 14% more students living on campus



ENROLLMENT SNAPSHOT

- Gen Z relies heavily on self-service tools.
- Parents play a more vital role than ever.
- Competition for students' attention and interest is intensifying.
- Concerns about the cost of college continue to rise.
- Recruitment no longer ends at enrollment.



UNIVERSITY BUDGET COMMITTEE

- **COMPOSITION:**
 - The Budget Committee is comprised of representatives from the university's functional areas, the faculty senate, staff senate and student government
- **CHARGE:**
 - The committee concentrates on the fiscally prudent development, allocation and management of a balanced budget that aligns with the Montana Tech Strategic Plan
- **DUTIES:**
 - The committee will review, evaluate and advise.



METALLURGICAL & MATERIALS ENGINEERING CENTENNIAL ANNIVERSARY

1922-2022



PROGRAM MILESTONES

- 1900 – 1922: Ore Dressing included in the Engineer of Mines degree curriculum
- 1922: Metallurgical Engineering established as a separate degree program with Ore Dressing as an option
- 1928: Master of Science degree in Metallurgical Engineering established
- 1935: Ore Dressing renamed “Mineral Dressing” and a Master of Science degree established
- 1937: Metallurgical Engineering received its first national accreditation
- 1963: Bachelor of Science degree in Mineral Dressing established
- 1975: Mineral Dressing Engineering renamed “Mineral Processing Engineering”
- 1977: Mineral Processing Engineering combined with Metallurgical Engineering
- 1989: Center for Advanced Materials Processing founded
- 2000: The department and degree renamed Metallurgical and Materials Engineering
- 2013: BOR approval of Materials Science Ph.D. program; first students accepted for Fall 2014 semester
- 2016: BOR approval of Materials Science & Engineering M.S. degree

CENTENNIAL STATISTICS

- Located in parts of four different buildings on campus
- Three program name changes (v. five for the university)
- Twenty-one Department Heads (v. twelve Presidents and three Chancellors)
- Fifty-eight professors (combined Metallurgical, Mineral Processing, and Materials Engineering)
- More than 1000 students have received Bachelor and Master of Science degrees



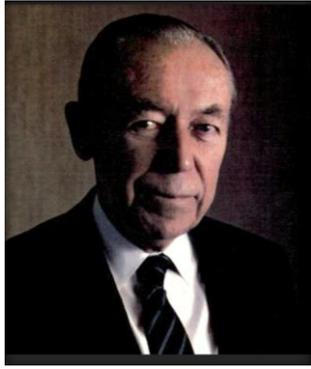
Wreckage of Metallurgy Building floor slab collapse, 1920.



NATIONAL ACADEMY OF ENGINEERING INDUCTEES



Antoine Gaudin
1964



Plato Malozemoff
1969



Douglas Fuerstenau
1976



William Opie
1982



Frank Aplan
1989



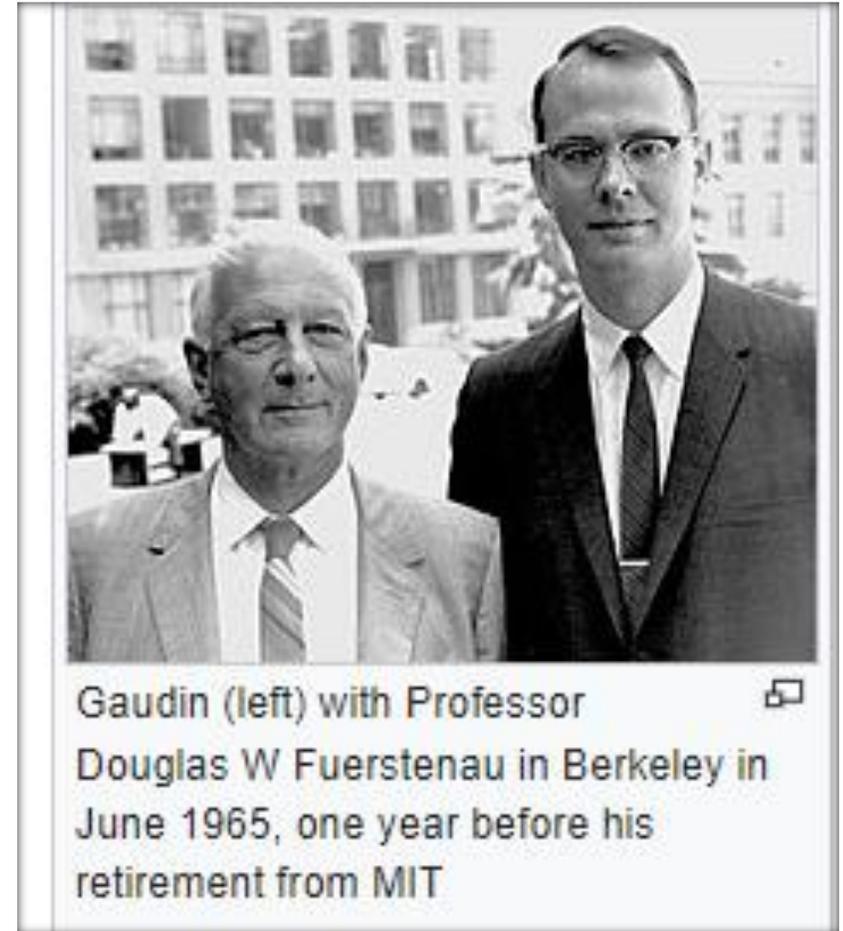
Robert Beebe
1990



Reinhardt Schuhmann
1990



Terrance McNulty
2005



Gaudin (left) with Professor
Douglas W Fuerstenau in Berkeley in
June 1965, one year before his
retirement from MIT

CENTENNIAL CELEBRATION EVENTS



Sept. 25 – 28: Fire Assay Course/Workshop

Sept. 27 – 28: Blade Smithing Workshop

Sept. 29: Student Poster Session

Sept. 29 Banquet Dinner for Department Alumni, Students, Faculty and Friends

Sept. 29 – 30: Technical Symposium

Sept. 30: Department Tour and Laboratory Dedication

Sept. 30: Industrial Advisory Board Meeting

October 1: Tailgate party prior to the Homecoming Football Game

Find detailed information about the symposium, visit www.mtech.edu.



ACKNOWLEDGEMENTS

- Metallurgical and Materials Engineering
Department Industrial Advisory Board
 - Tom McIntyre
 - Kathy Arnold
 - Corby Anderson
 - Scott Schuey
- Professor Emeritus Larry Twidwell
- Bob Morris
- Shannon Panisko and the Montana Tech
Foundation



REINVENTING HIGHLANDS COLLEGE

CURRICULUM UPDATE

- Partnership with Business Department
 - **12-15 credits of Business Classes**
- Stackable to BAS Business (three options)
 - **CAS-AAS-BAS**
- New two-year Welding Technology
- Radiologic Technology
 - **BAS Biological Sciences Health Track Option**



PARTNERSHIPS

- **Campus**
 - Business
 - Biological Sciences
 - Mining Engineering
 - Admissions/Marketing
- **Community/Industry**
 - Butte-Silver Bow
 - OCHE
 - Black Butte Copper
 - Accelerate MT
 - UTRS/NFAMI
 - CCCS
 - DOJ-MVD
 - NorthWestern Energy
 - Montana Precision Products
 - Boeing



GRANTS (FUNDED)

\$2.1 Million

- OCHE
 - Workforce
 - Perkins
 - Career Pathways
 - Non-Traditional Careers
 - "Jobs Don't Have Genders" Camp
- Butte Silver-Bow Government
 - ARPA Funding
- Cyber Montana
 - Cyber Camp
- Accelerate MT
 - School to Work (CNA)
 - Subsidy for CDL
 - Production Assistant Rapid Training



GRANT (PROPOSALS)

\$600,000

- STRADA
 - **Partnership with Corrections**
- Future at Work
 - **CDL School to Work**
- Accelerate MT
 - **Operation Next**
 - **Line Program**
 - **Marketing**
- Black Butte Copper CDL Training

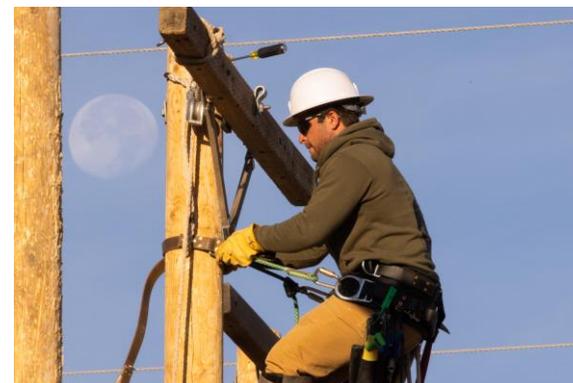
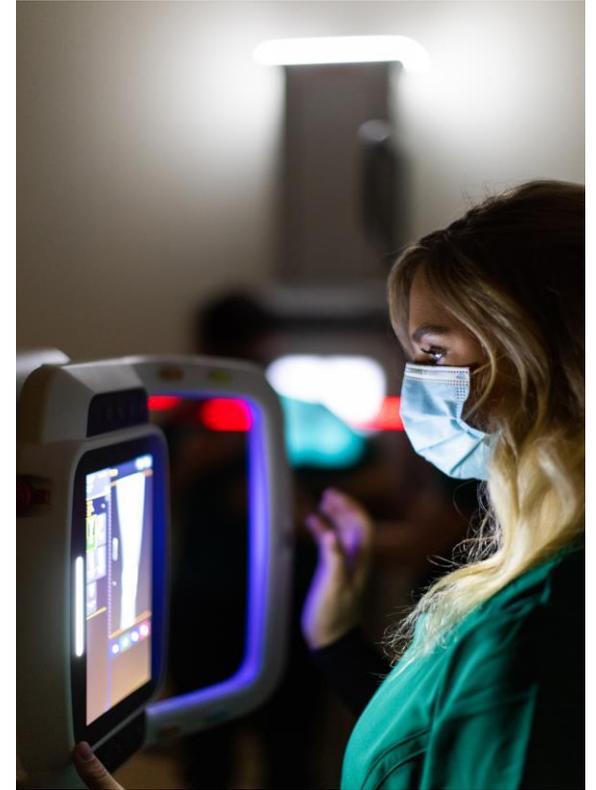


DUAL ENROLLMENT

- **Get Ahead With Dual Enrollment**
 - Save Time
 - Save Money
 - Ease into College
- **Partner Schools**
- **School to Work**
 - Explore the Foundations of Health Careers
 - 13 Credit School to Work Opportunity



PROGRAM HIGHLIGHTS



PARTNERSHIP HIGHLIGHTS

- 3rd party CDL Testing Center
- Black Butte Copper
 - **CDL Training**
 - **MSHA & First Responder Trainings**
 - **Proposal for modular office building**
- NorthWestern Energy
 - **Sign**
 - **Poles**

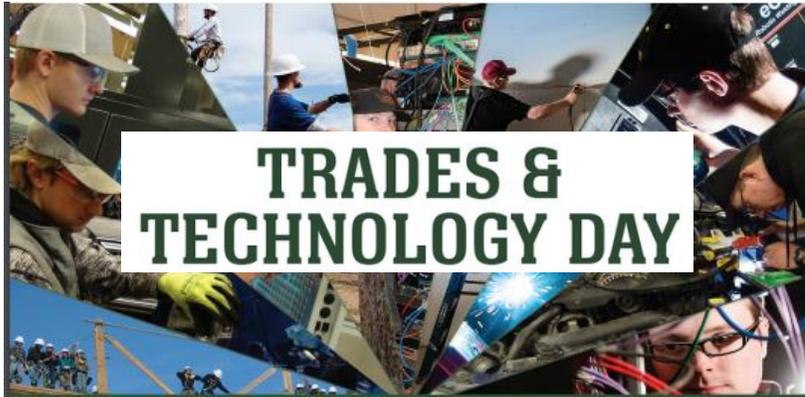




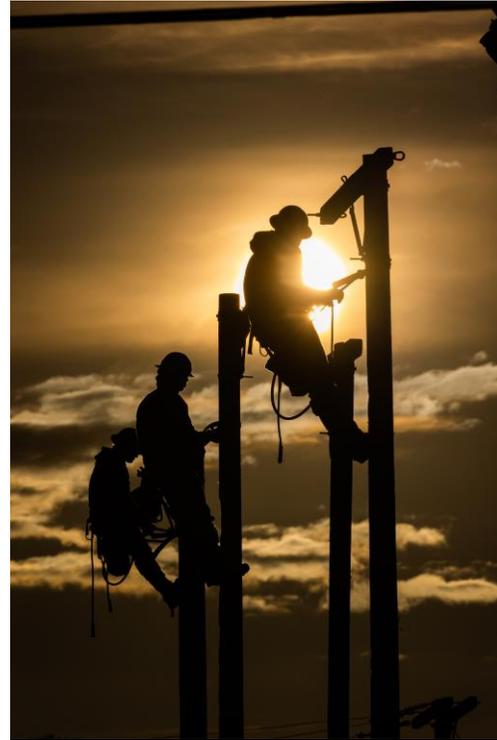
IN THE WORKS

- Hired Instructional Designer
- CAS/AAS Mining Technology
- Partnership with CCCS
- Civil Engineering Technology
- Operation Next
- Certification in Solar Panel Installation and Maintenance
- VR Headsets

SAVE THE DATE



Thursday, October 6



**Line Rodeo & Industry Day
Friday, December 9**



Friday, June 2

CELEBRATING DAYONE

DAY
ONE

Montana Tech's Giving Event





MONTANA

TECHNOLOGICAL UNIVERSITY

FOUNDATION

Jaime Heppler CEO Montana Tech
Foundation

Foundation Mission, Vision and Values

FY23 Fundraising Goal(s) and Initiatives

Fundraising Year to Date

DayOne

Montana Tech's Giving Event



So what is DayOne?

- DayOne is a celebration of the opening of Montana Technological University's the 11th of September in 1900.
- DayOne is the opportunity to celebrate with our Montana Tech community, share all the good things happening on our campuses, and raise funds in focused areas for our departments, programs, clubs and initiatives.



What Are The Impacts of DayOne?

- Dollars raised - \$997,355 from 2017-2021
- Total Gifts - 2,661 from 2017-2021
- Total New Donors - 980 from 2017-2021
- Programs impacted - 46 projects over the last 5 years
- Matched Dollars - \$237,000 in matching funds for projects

WHY IS DAYONE IMPORTANT?

- The students and programs we serve
- It's beyond giving it's about ENGAGEMENT
- Providing motivated alumni, friends and donors opportunities to support what they love
- Advancing as **ONE**



DAYONE 2022 AND YOU



Happening now through tomorrow at 11:59 pm

dayone.mtech.edu

30 Projects and multiple funds

More Matching Opportunities than ever

Departmental Challenge through noon tomorrow

Ambassador Leaderboard

Giving Incentives



WHAT'S AHEAD

- DayOne (September 8-9)
- Welcoming new faculty and staff
- Career Fair (September 22)
- Board of Regents (in Billings)
- Metallurgical and Materials 100 Year Celebration (September 26-October 1)
- Homecoming Week (September 29-October 1)
- Chancellor's Award of Distinction and Distinguished Alumni Awards (September 30)
- Family Weekend (October 14-16)
- EAB Professional Development Day (October 10-11)
- Hall of Fame Weekend (October 21-22)
- Make a Difference Day (October 22)



SUSTAINING MOMENTUM

- What we do matters.
- We will deliver on our promise.
- We will implement our plan and we will modify as we go.
- With a commitment to student success, distinctive programs, and environment where we all thrive.
- And we will never be done...



THANK YOU!

Please join us for appetizers, drinks,
and hospitality in the SSC lobby.

MONTANA
TECHNOLOGICAL UNIVERSITY