Campus Conference 2021

President’s Campus Update August 20, 2021
Agenda

• AY2020-21 Impressions
• Heading in to AY2021-22
• Progress toward MINES@150: Selected Highlights
• AY2021-22 Town Halls
• Q&A
Volunteers needed to produce 14,000 cloth masks for Mines community

Make Masks for Mines: "Orediggers thrive when presented with a challenge, and this is one we all benefit from."

A volunteer effort led by two staff members in the Mining Engineering Department aims to produce 14,000 cloth masks for Mines students and employees by July 1.

Brent Duncan, manager of the Earth Mechanics Institute, and Bruce Yoshioka, lab coordinator in the Mining Department, are spearheading the Make Masks for Mines effort, with support from donors, the Colorado School of Mines Foundation and the Office of Mines President Paul C. Johnson.

"Mines prides itself on being a tight-knit community, and we really are — we help and support each other,"
AY2020-21 Lasting Impressions
AY2020-21 Lasting Impressions
AY2020-21 Lasting Impressions
Five RMAC championships (men's cross country, men's soccer, women's basketball, and volleyball)

Four teams ranked #1 in the nation (men's basketball, men's cross country, men's indoor track & field, and men's outdoor track & field)

Nine teams selected for NCAA Championships (men's basketball in NCAA Elite Eight, men's outdoor track & field finished a best-ever sixth nationally)

Five teams received Brechler Awards (top team GPA in the RMAC)

Mines led NCAA Division II for the fourth consecutive year with 16 Academic All-Americans

Sydney Marchando named RMAC Woman of the Year
FREE COVID-19 TESTING NOW AVAILABLE FOR WHOLE MINES COMMUNITY, INCLUDING FAMILY MEMBERS
Nov 13, 2020 | Announcements, Coronavirus

Mines and COVIDCheck Colorado (CCC) are now offering testing for all Mines students, faculty and staff. We’re also excited to announce that family and household members (spouses, children, significant others, roommates, etc.) are also now able to get tested through the end of 2020 at CCC sites outside the Mines campus. Please follow these instructions:

- Mines students, faculty and staff with a Campus Wide ID (CWID) should use this exclusive Mines testing link: https://www.primarybio.com/a/mines. A CWID is required.
- Family or Household members can sign up for testing at CCC sites outside the Mines campus using this link: https://www.primarybio.com/l/cdphe

Only Mines students, faculty and staff who are part of the campus surveillance testing program should sign up for appointments at the Mines testing site. This will help ensure the Mines testing site continues to have the capacity to test members of the priority surveillance groups. The priority groups are: 1) students living in Mines housing, 2) NCAA athletes, 3) fraternity and sorority members, 4) faculty and teaching assistants teaching in person, 5) staff working on campus and 6) anyone referred to testing by the Student Health Center or by the Mines COVID-19 Response Initiator Team (CRIT). All other Mines community members in need of a COVID-19 test should sign up for an appointment at any of CCC’s other testing sites throughout the Denver area.

All testing is free—including for family or household members—thanks to the support of the Colorado Department of Public Health and Environment (CDPHE). All CCC test sites use the same testing method and laboratories as used on the Mines testing site.

More than 1,000 #Orediggers – including President Johnson (@iloveblaster) – received their first dose of the COVID-19 vaccine this week!

Paul Johnson @ILoveBlaster · Mar 26
Thanks to our partner LifeHealth for this week’s COVID-19 vaccinations (and the cool cartoon character band-aids). Every injection gets us another step closer to recapturing our lives and the full @coschoolofmines experience.
AY2020-21 Lasting Impressions

CARES Act, HEERF, and ARP fund distribution to students:
- Disbursed $6.3M (with about $2M to be awarded this fall)
- 2,872 unique students have been funded;
- 2,064 of those students (about 72%) in the high need category
- The average funding per student was $2,170

Increased Institutional Financial Aid
No tuition increase for AY2020-21 (also AY2019-20 for in-state students)

Student Emergency Fund

The Faculty/Staff Giving Committee promoted fundraising for the Student Emergency Fund, generating awards for 100+ students, and stocked 500+ items for Blaster’s Basket
AY2020-21 Lasting Impressions
AY2021-22

- Learning to live with COVID
- Back to near-normal in-person living/learning at almost full capacity
- More diverse work arrangements (Colorado-based work-from-home options)
- Build on innovations and new skills developed in AY2021-22
- Advancing MINES@150
AY2021-22 Incoming Students

• About 1440 first-year students + 120 transfer students
• +10% admitted +10% Yield increase => 20% overall increase
• First-time/Full-time students are:
  • 56% CO Resident (vs. 51%*)
  • 33% women (vs. 33%*)
  • 30% URG (vs. 26%*)
  • 13% Hispanic (vs. 10%*)

* - average of 2017-20 data
Welcome, New Faculty

Mohammed El
Mona El
Gabe Fierro
Walt Copan
Matthew Crane
Crystal Dobratz
Daniel Blood
Polina Brodsky
Kevin Cannon
Eric Anderson
Iris Bahar
Suzy Beeler
Welcome, New Faculty

Adrienne Marshall
Eileen Martin
Suveen Mathaudhu
Joshua Koubek
Ramya Kumar
Patrick Leach
Keith Hellman
Megan Holtz
Kathleen Kelly
Joy Gockel
John Griesmer
Brendan Hanger
Welcome, New Faculty
Welcome, New Faculty

Relative to 2015:

- % women in T/TT faculty ranks: <20% to >25%
- % women in faculty overall: 26% to 33% (similar now to student demographics)
- Little change in % URG
Unrestricted State Funding FY2010-FY2022

COF  Fed Stabilization (SFSF)/Stimulus  FFS  One-Time Funding SB18-262

FY 10: $3.75  $12.65  $6.85  $0.87
FY 11: $5.04  $15.55  $15.18  $0.5
FY 12: $5.07  $16.25  $11.64  $0.3
FY 13: $5.15  $16.08  $11.94  $0.2
FY 14: $5.18  $16.81  $12.47  $0.2
FY 15: $6.19  $18.67  $14.26  $0.4
FY 16: $6.29  $20.55  $14.71  $0.4
FY 17: $5.93  $20.64  $15.04  $0.3
FY 18: $6.32  $21.36  $15.83  $0.4
FY 19: $6.57  $22.87  $17.31  $0.5
FY 20: $8.06  $25.37  $19.52  $0.8
FY 21: $3.19  $24.08  $7.47  $0.7
FY 22: $8.06  $27.58  $13.43  $0.8
FY22 All Funds Budget (in millions)

About $400M

Revenues
- Tuition and Fees $188.9 48%
- Research Grants and Contracts $96.8 24%
- Gift Revenues $26.3 7%
- State Support $27.6 7%
- One-Time PY Savings $4.4 1%
- Auxiliary $33.3 8%
- Investment Income $1.6 0%
- Other Revenues $7.0 2%

Expenses
- Instruction $96.3 24.4%
- Operation & Maintenance $35.5 9.0%
- Financial Aid Grants (Pell and State) $6.4 2%
- Public Service $0.6 0.2%
- Scholarships & Fellowships $50.8 12.9%
- Auxiliary and Student Fees $51.3 13.0%
- Academic Support $25.5 6.5%
- Capital Reno. & Maint. $3.2 0.8%

Dollars in Millions
Building the Endowment

Endowment Value
(in millions)

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<thead>
<tr>
<th>Fiscal Year</th>
<th>Endowment Value (in millions)</th>
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<tr>
<td>FY2012</td>
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<td>FY2020</td>
<td>285</td>
</tr>
<tr>
<td>FY2021</td>
<td>396</td>
</tr>
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</table>
Philanthropic Support - Examples

• Bruce ’76 MN and Deborah Grewcock - Grewcock Presidential Scholars Program
• Jerry '68 GP and Tina Grandey – First-year honors program focusing on leadership development
• Frank ’52 ME and Mary Labriola - Labriola Innovation Complex and Hub
• Charlie ’71 MN and Judy McNeil – McNeil Hall and McNeil Center for Entrepreneurship & Innovation
• Mike and Kelly Beck (parents) – Venture Center
• Chuck '61 GE and Louanne Shultz – Growth of the Humanitarian Engineering Program
• Fran Vallejo '87 MINM and Scott Irvine '87 GP – Vallejo Irvine Professional Development Program
• Don '55 GP and Lois Thorson – Capstone Lab
• United Arab Emeritus - support for the Center for Entrepreneurship & Innovation
• Mike Nagorka ’83 MT - $1.5M bequest is for MME lab equipment (Excellence & Distinction)
• Jen Steans and Jim Kastenholz (parents) – Treehouse in Spruce Hall
• Steve McCandless ’63 GE - $400K to fund Betsy’s Friends in Mines' Title IX office
• Andy '78 PE and Sherry Swiger - Multi-year challenge gift for #idigmines

• + Foundation Grant to Mines to Support MINES@150 Initiatives
MINES@150: In 2024+ Mines will be...

A Top-of-Mind First-Choice University

A leader in educating STEM students and professionals

An inspiring and caring community in which to learn, explore, live and work

Accessible and attractive to qualified students from all backgrounds

A producer of differentiated and highly desired STEM-educated leaders

A go-to place for use-inspired research and innovation needed to solve challenges facing industry, society, and the environment

A preferred partner for talent, solutions and life-long learning

The exemplar for alumni affinity, visibility and involvement

COLORADO SCHOOL OF MINES
EARTH • ENERGY • ENVIRONMENT
Our Call to Action – The Imperatives

To achieve our MINES@150 aspirations, we must:

• become **more accessible and attractive** to qualified students from a broader range of backgrounds (financial/other support, success metrics, culture, demographics).

• offer a **signature student experience and produce distinctive graduates**.

• **Re-align our programs portfolio with the future; expand offerings and diversify delivery**, in particular for professionally-oriented pre- and post-graduate education.

• **grow the scale and impact of our research**: build thematic strengths, expand our impact, develop a more social research culture, diversify funding sources.

• **build/acquire the infrastructure and grow the leadership** needed for MINES@150.

• **strengthen affinity** for MINES among our students, alumni, and external partners.

• **be more innovative and entrepreneurial**, especially in the use of our resources.

• **attract investment** to support our strategic initiatives.
Accessible and Attractive

Emphasis Areas

- Student success (retention, graduation, employment, student debt)
- Scholars Communities
- DI&A Efforts
- Financial support
- Scalable K-12 Outreach Efforts* (look for RFP)
- Expanding Pathways to Mines**
Sample Initiatives

- Faculty Senate Signature Student Experience Grants Program
- PASCAL Center (*Professional and Scholar Communities Applied Learning*)
- VIP Program (*Vallejo-Irvine Professional Development Program*)
- Comprehensive Learner Records
- New Honors & Scholars Programs
- First-Year Experience & Core
Realign Portfolio & Diversify Delivery

New Programs AY20-21

- BS in Quantitative Biological Engineering
- BS in Business Engineering and Management Science
- Minor in Aerospace Engineering
- Minor in Quantum Engineering
- Minor in Space Mining
- Minor in Teaching
- Graduate Certificate and Professional Master’s in Analytical Geochemistry

+13 online certificates in AY2019-20
1052 students (570 grad, 482 UG)

23 Online Programs Launched

Online Courses - 126 Total (Spg '22)

- 90 - Built
- 15 by Spg '22
- 11 by Fall '21

8 additional Online Programs in Development
Growing the Scale and Impact of Our Research

Research Awards and Expenditures

Federal | State | Private

Awards FY15 | Expenses FY15 | Awards FY16 | Expenses FY16 | Awards FY17 | Expenses FY17 | Awards FY18 | Expenses FY18 | Awards FY19 | Expenses FY19 | Awards FY20 | Expenses FY20 | Awards FY21 | Expenses FY21

Peru

COLORADO SCHOOL OF MINES
EARTH ENERGY ENVIRONMENT
Mines is Well Positioned for Future Funding

*Growth in Mines-relevant opportunities across all sectors in the Administration’s F22 Proposal*

Climate / Energy / Renewables,
Critical minerals, Advanced Manufacturing,
Space, Quantum, AI/ML, Cybersecurity,
Autonomous systems (including UAV),
Advanced Communications,
Bioeconomy, Blockchain,
Semiconductors, Human factors, …

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<th>% change</th>
<th>2022 request ($ billions)</th>
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<td>NSF</td>
<td>20.2%</td>
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<td>NASA science</td>
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<td>$7.9</td>
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<tr>
<td>DOE science</td>
<td>5.3%</td>
<td>$7</td>
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<td>Agricultural research</td>
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<td>$4</td>
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<tr>
<td>USGS</td>
<td>24.8%</td>
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<td>NIST research</td>
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<td>$0.9</td>
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<tr>
<td>EPA science</td>
<td>13.9%</td>
<td>$0.8</td>
</tr>
<tr>
<td>NOAA research</td>
<td>26%</td>
<td>$0.7</td>
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<tr>
<td>Defense basic science</td>
<td>-10.9%</td>
<td>$2.4</td>
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Mines’ Global Energy Future Initiative
Campus Infrastructure

- Subsurface Frontiers
- Venture Center
- Early Childhood Education Center
- Mines Park Redevelopment
- Labriola Innovation Complex
Earth • Energy • Environment

Mines Rover

Solar Benches

Rooftop Solar

GRLA

Korell

Steinhauer

K Lot

Green

Rec Center

Shops 2

Mines Museum of Earth Science

Colorado School of Mines

Colorado Commons

Starbucks

Locate all Mines

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Mines Museum of Earth Science
Mines DI&A Annual Award Recipients

MARYAM ALAHMAR
PhD Student, Civil & Environmental Engineering

GYASI EVANS
Engagement & Outreach Librarians, Arthur Lakes Library

CHRISTINE MORRISON
Assistant Professor, Chemistry

DANICA ROTH
Assistant Professor, Geology and Geological Engineering

REBECCA SCHNEIDER
Circulation & User Services Manager, Arthur Lakes Library

CHRISTOPHER THIRY
Maps & GIS Librarians, Arthur Lakes Library

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mines.edu/diversity
DI&A Progress Report Awardees

Best in Fostering Dialogue
HASS

Best in Data & Metrics
ITS

Best in Shared Responsibility
Library & Museum

President’s Choice: Academic Program
Physics

President’s Choice: Non-Academic Program
CLASS

Best in Responsiveness to Pandemic
Trefny Center
Opportunity

K-12 Outreach

CLASS

Best in Responsiveness to Pandemic
Trefny Center
Upcoming Virtual Town Hall Topics

Equal Pay Equal Work
Entrepreneurship
Innovation & Tech Transfer
DI&A Efforts Progress
International Activities
Mines Online
Global Energy Futures Initiative