



SOUTH DAKOTA MINES
An engineering, science and technology university

University Cabinet

October 23, 2023





**SOUTH
DAKOTA
MINES**

Office for Inclusion

Strategic Plan

List the top two initiatives, goals, or achievements (as applicable) for the department, center, or program.

Academic & Co-Curricular Excellence

- Build a sense of belonging amongst student population through interactive engagements
- Demonstrate the ability to consider different perspectives and self-reflect about new learnings

Outreach & Engagement

- Provide seminars, workshops, and other activities that university individuals (students, staff, faculty, and RC community) with opportunities to widen their worldview lens regarding differences and aspects of inclusion
- Recruit, retain and provide academic opportunities for undergraduate and graduate students who actively promote a cultural of belonging and reflect the importance of inclusivity in a diverse community

Campus Culture

- Serve the campus community in ways that proactively promote the importance of an inclusive community and global marketplace.
- Promote, acknowledge, and reward student academic excellence and inclusive excellence.

Latest Updates & Recommendations

- **OFI Programming & Services**

- *New & Unique*

- CommUnity Lunches (Fall – Identities & Freedom of Expression and South Dakota Rights)
- RCCHS Tutoring Program (21st Century Grant)
- Rapid City Farmers market
- Student Emergency Assistance Fund
- PDP – Exploring Worldview
- Improvements to Pre-Orientation with help of Industry partners & departments

- *OFI Services*

- Pre-Orientation
- American Indian Honoring Ceremony
- Mentoring
- Industry Partner Luncheon's/Dinner/workshops
- Personal Development Promise
- IDI – Intercultural Development Inventory (Cultural Competency Training/Assessment)

Campus Culture

- Professional Student Organizations – *Implement signature event*
- Inclusion Committee
- Opportunity for All Initiatives

To create a campus community where all individuals and groups feel valued and engaged, and where diversity and inclusion are essential to excellence.

How

- How are we creating an inclusive environment for both students & employees?
 - Inclusion Statement (Fall 2017) - Representative of what it means to be a 'Hardrock'er'
 - Advising (mentorship) on-and-off campus
 - Providing the space(s) where staff and faculty & students can gain a sense of belonging on campus



**SOUTH
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Mathematics

Department Strategic Plans

Academic & Co-Curricular Excellence

Multi-stage redesign of the Mines Precalculus-to-Calculus-2 (**P2C2**) sequence to improve student success, placement, and retention.

Advertise **specializations and research opportunities** as part of sustainable enrollment plan to reach 70 undergraduate Math majors.

Research & Innovation

Grow research in **data science** to support undergraduate research and funnel students into Data Science and Engineering PhD program.

Grow research in **collaborative STEM education** research efforts, including the national NASA Computational Astronomy program.

Outreach & Engagement

Expand support of **Data Miners** and other competitive math teams to increase Mines name recognition in the region.

Fundraise to support and expand the **West River Math Contest** as a gateway recruiting experience for prospective high-schoolers.

Campus Culture

Augment mathematics support systems like the **Slide Rule Math Help Center** and **Just In Time** study sessions to foster *growth mindset* and *climate of learning*.

Increase campus awareness of undergraduate mathematics research with poster installation in McLaury.

Department Highlights

New Faculty Member



Dr. **Paul May** joined the Department as an Assistant Professor in Fall 2023. Dr May has degrees in Mathematics and Computational Sciences & Statistics from SDSU and USD, and did postdoctoral research at UM-College Park before coming to Mines.

Dr. May's research focuses on using Global Ecosystem Dynamics Investigation (GEDI) satellite data to answer questions about environmental change and sustainability.

In only his first month at Mines, Dr. May was awarded a \$460K grant from the US Forest Service to model spatial-temporal trends in US forests using satellite and field inventory data.

Research Awards



Dr. **Kyle Caudle** was awarded a \$91K grant from the National Institute of Standards and Technology to investigate population masking for communications systems and data sharing.



Dr. **Marti Garlick** leads a team including Travis Kowalski, Peter Grieve, Donna Kliche, and Don Teets that was awarded a \$37K grant from the NASA SD Space Grant Consortium to expand Computational Astronomy nationally.

Department Highlights

Data Miners Win Again! And Again!



The Data Miners, the department's competitive student data science team, continues to win at competitions.

The Data Miners took 3rd place at the Spring 2023 MinneAnalytics competition at Target Field modeling game attendance for the Minnesota Twins.

Most recently, they took 1st place in the regional NASA Space Apps Hackathon challenge. This means they move on to the global competition (and the possibility of watching a NASA launch).

Other Highlights

- The **Slide Rule Math Help Center** is fully operation in the Devereaux Library, serving students in Precalculus through Calculus II. It serves between about 450 students and logs in over 2000 contact hours each month!
- The **West River Math Contest** continues to grow, last year hosting 450 middle- and high-schoolers. Thanks to \$5K in Day of Giving contributions, we were able to provide campus tours and free lunch in Surbeck for all participants!
- Math faculty were **invited speakers** at several conferences, including Travis Kowalski (MAA MathFest '23), Marti Garlick (AAPT Winter '24).
- 2023 **IR report** over past 10 years of data show that students who take their P2C2 at Mines are 10-15% more likely to pass later MATH classes and 10% more likely to graduate and earn a degree from Mines.



**SOUTH
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Monthly Reports

Enrollment Management

- Applications for first-time freshman and transfer students are rolling in. We are up in acceptances for first-time freshman versus last year and up over the four-year average.
- The free application period began on October 1 and includes all the states that are part of the South Dakota Advantage.

Academics

- A non-tenure track review committee has been created to review the promotion dossiers for faculty in the lecturer and professor of practice track.
- The PhD in Chemistry and Biology was approved at the October BOR meeting!

Student Success

- Our Navigate strategic leader from EAB was on campus in October to visit with success advisors, academic advisors, department heads, and administration and to see how the Navigate product is being used to support students and how EAB can provide further support for new features.
- A new writing center will be established in the library building to help students, especially with respect to thesis and dissertations.

Applications, acceptances, and registrations:

	Fall 2020	Fall 2021	Fall 2022	Fall 2023	Fall 2024
Applications	374	356	438	470	558
Acceptances	235	193	302	265	323
Registrations	N/A	N/A	N/A	N/A	N/A
Transfers (Spring)	2	0	6	6	4
Transfers (Fall)	0	0	0	1	0

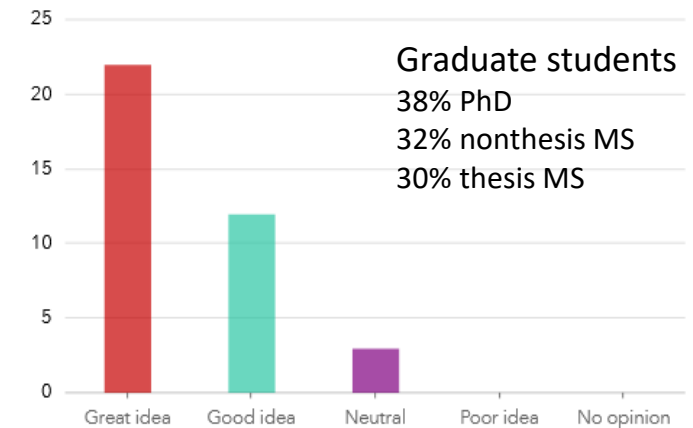
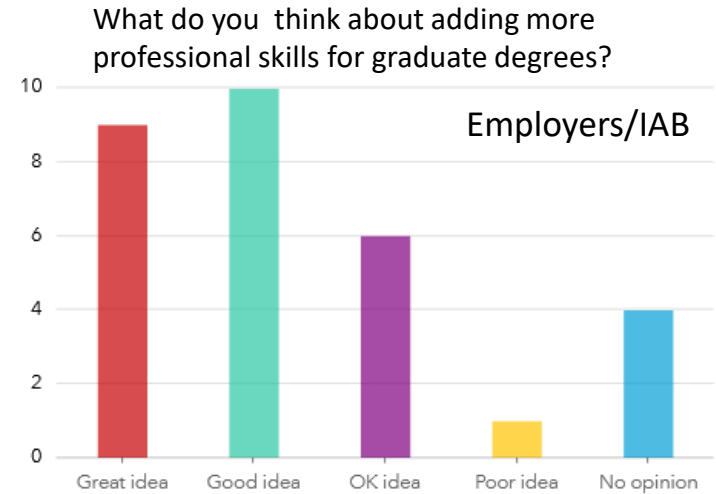
October 2023

First report for Fall 2024

Current Accepted applications- potential enrolled	Fall 2024	3-yr avg	# change from 3-yr avg	% change from 3-yr avg
Current accepted applications	63	40	23	57.5%
Campus MS	59	40	19	47.5%
Distance MS	4	0	4	∞
PhD	0	0	0	-
U.S. students	57	39	18	46.2%
International	6	1	5	500.0%
Accelerated*	56	39	17	43.6%

Streamlined nonthesis admissions is impacting accepted applications, probably timing more than final count.

- Graduate Writing Center starting to accept appointments in October
- Survey results on adding more professional skills for graduate degrees show that most employers and students are in favor



Student career goals:

All respondents
89% industry
8% academia
3% government

Student career goals:

PhD respondents
79% industry
14% academia
7% government

Ticket Revenue

Oct. 2023 - \$41,000

Home Events Remaining

Soccer

Oct. 22 – Regis 3pm / Oct. 27 UCCS 7pm / Oct. 29 CSU Pueblo Noon

Football

Nov. 4 CSU Pueblo Noon

Volleyball

Oct. 26 UCCS 6pm / Oct. 28 Fort Lewis 1 pm

Nov. 3 CCU 6 pm / Nov. 4 Chadron St. 6 pm

Wellness Center:

Entry Scans: 4524 (Last year 4380)

Group Fitness:

- 4 classes
- 19 participants

Special Event:

- Kitten Yoga
- 65 students participated.

Equipment Check Out

- 49 sign outs

Climbing Wall

- 150 students sign in

Fire Department

- 1 person sign in

Intramurals:

Flag Football numbers:

Refs: 17

Total Teams: 10

Total Participants: 146

Total Games Played: 19

Coed Soccer numbers:

Refs: 19

Total Teams: 9

Total Participation: 123

Total Games Played: 22

Recent/Upcoming Alumni Events

October

- Tuesday, October 3 @ 5:00 PM – Alumni/Student Bingo
- Thursday, October 5 @ 11:00 AM – Lunch & Learn Mining Department
- Saturday, October 7 @ 12:00 PM – FB vs Western CO
(Tailgate @ 11:00 AM)
- Sunday, October 8 @ 3:25 PM CT – Chiefs @ Vikings Alumni Game, Minneapolis
- Thursday, October 12 @ 11:30 PM – Thirsty's Lunch
- Friday, October 13 @ 7:00 PM – President's Dinner
- Saturday, October 14 @ Noon – Hardrockers FB @ CSM
(Tailgate @ 11:00 AM)
- Saturday, October 21 @ Noon – FB Game vs Fort Lewis
(Tailgate @ 11:00 AM)
- Tuesday, October 24 @ 6:00 PM MT – Alumni/ Student Online Trivia Night

Upcoming Alumni Events

November

- Wednesday, November 1 @ 6:00 PM – Peoria Alumni Dinner
- Thursday, November 2 @ 11:00 AM – Lunch & Learn Civil Department
- Saturday, November 4 @ 11:00 AM – FB vs Chadron State
- Tuesday, November 7 @ 5 PM – Alumni Student Bingo
- Thursday, November 9 @ 11:30 AM – Thirsty's Lunch
- Saturday, November 25 @ 6:00 PM – Rapid City Festival of Lights Alumni Area with Grubby

December

- Friday, December 1 @ 5:30 PM – New Alumni Welcome Reception
- Thursday, December 7 @ 11:00 AM – Lunch & Learn Physics IceCube - Neutrino Telescope at the North Pole
- Thursday, December 14 @ 11:30 AM – Thirsty's Lunch
- Saturday, December 16 @ 9:00 AM – Graduation

Student Events

October

- Tuesday, October 24 @ 6:00 PM MT – Online Trivia Night

November

- Tuesday, November 7 @ 5:00 PM – Alumni & Student Bingo
- Tuesday, November 28 @ 10:00 AM – Cap & Gown

December

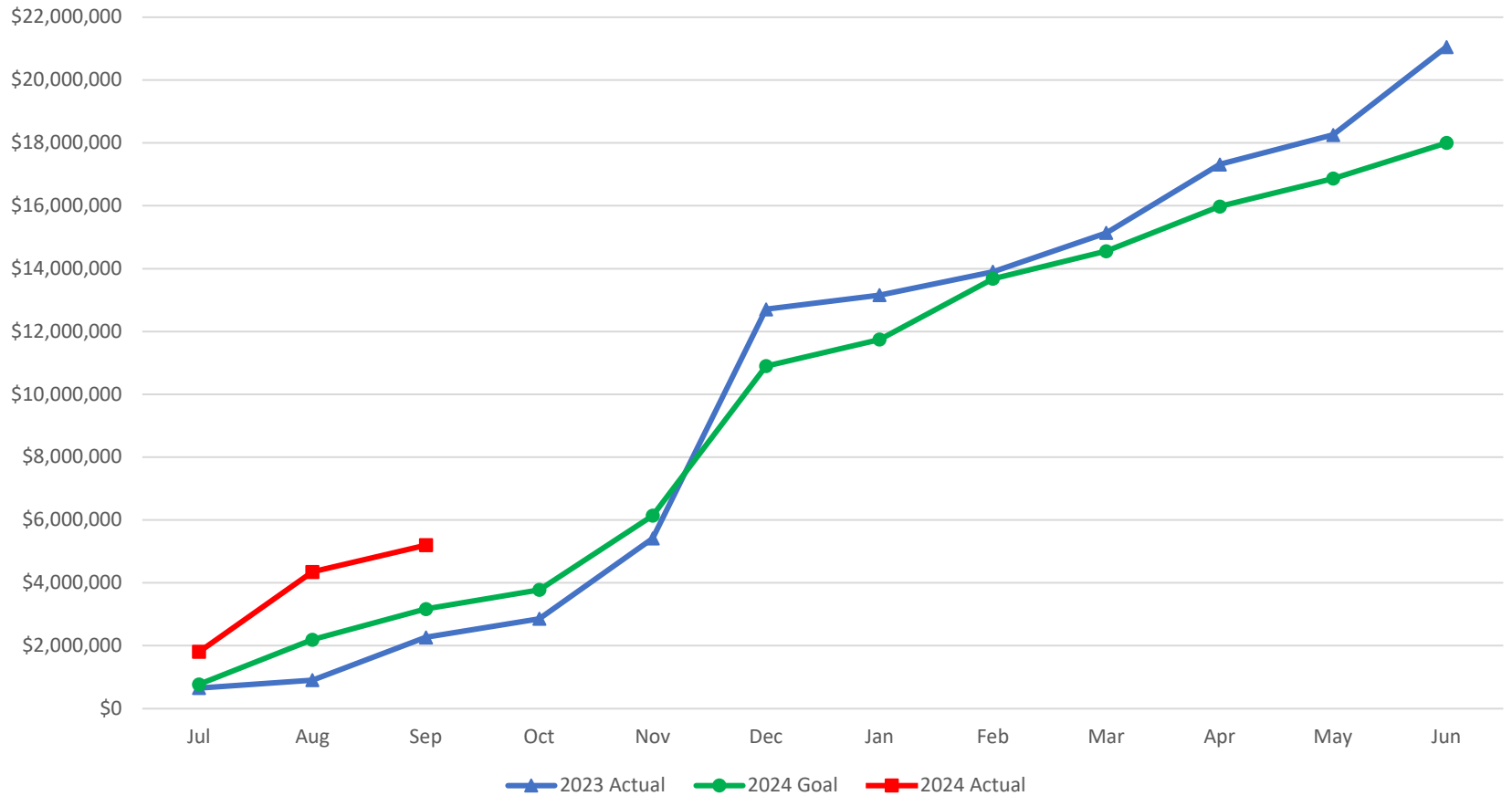
- Friday, December 1 @ 5:30 PM – New Alumni Welcome Reception

FY24 Annual Goals

Category	FY 23 Actuals	FY 24 Goals	FY 23 Actuals thru 9/30/22	FY 24 Actuals thru 9/30/23
New Gifts and Pledges:				
• Cash	\$ 9.43 M		\$ 1.09 M	\$ 1.23 M
• Stock	\$ 1.26 M		\$ 0 M	\$ 0.04 M
• Pledges	<u>\$ 10.36 M</u>		<u>\$ 1.17 M</u>	<u>\$ 3.93 M</u>
Total New Money	<u>\$ 21.05 M</u>	<u>\$18.00 M</u>	<u>\$ 2.27 M</u>	<u>\$ 5.20 M</u>
• Gifts In Kind	\$ 43 K		\$ 2 K	\$ 1 K
• Estimated Heritage Society Gifts	\$ 2.89 M		\$ 0 K	\$ 0 K
• Pledge Payments	\$4.94 M		\$ 860 K	\$ 2.37 M

Contributions

As of 9/30/23 \$5,200,701 in contributions



FY24 Annual Financial Goals

Category	FY 23 Actuals	FY 24 Goals	FY 23 Actuals thru 9/30/22	FY 24 Actuals thru 9/30/23
Mines Advancement Fund	\$844 K	\$650 K	\$67 K	\$63 K
Corporate and Foundation Giving	\$1.02 M		\$88 K	\$2.73 M
Major Gifts	\$18.66 M		\$1.97 M	\$2.24 M

Breakdown of all gifts

Cash, Stock, and New Pledges

Area	As of 9/30/23
Scholarships	\$2,160,477
Department Support	\$743,631
Athletics	\$82,094
Faculty Support	\$0
Facilities	\$2,151,133
Mines Advancement Fund	\$62,716
CARA Endowment & Unrestricted	\$650
Total	\$5,200,701

FY24 Donor Goals

Category	FY 23 Actuals	FY 24 Goals	FY 23 Actual thru 9/30/22	FY 24 Actual thru 9/30/23
New Heritage Society Members	23	20	5	4
Gifts over \$10,000 (Unique Donors)	173	180	27	25
Total Donors	2,180	2,250	437	570

Traditions of Excellence Awardees

- September – Hallie Vigil
- Nominations being accepted for October

CSA Meetings

- Nov. 16

2023-2024 Council Members

Angela Mettler, CSA Chair

- *May 2024*

Shelly Tupper, Vice Chair

- *May 2025*

Anita Brenneman, Secretary

- *May 2024*

Amber Anderson, Council Member

- *May 2025*

Jenn Dusek, Council Member

- *May 2024*

Items from October Faculty Senate Meeting:

- University P&T and Department P&T Committee elections completed
- Non-Tenure-Track Advisory Committee formed
- Peer Review of Teaching Subcommittee – development of guidelines ongoing
- September and October UCC items approved
- Will likely hold an All-Faculty meeting in late November
 - Possible topics include AI in the classroom, PRT guidelines
- Inclement Weather Policy – Provost Roberts and Kurt Katzenstein to develop initial framework

Starting up FY24 University Budget Committee

1. Will have first meeting in December
2. Three new members:
 - a. Abigail Van Ruler: Student Association CFO
 - b. Chris Roman: NFE Council President
 - c. Angela Mettler: CSA Council President

University Budget Committee

• **Committee Charter/Purpose:**

• The University Budget Committee (UBC) serves as a conduit of information, for the Mines Community, regarding all SD Mines budget presentations, procedures, processes, and decisions. Additionally, the UBC will provide informal advice and counsel to the University Budget decision makers at Mines. The goal is to provide an avenue of improved discourse between the Mines community and the faculty, staff and executive leadership making budget decisions for the University.

• **Committee Structure/Composition and Term:**

• The UBC will consists of members of every major staff, student, and faculty category and be organized and managed by the Finance and Administration staff. The UBC will be led by the Provost and Vice President for Finance and Administration.

Members	Term
• Co-Chair – Dr Lance Roberts	Indefinite
• Co-Chair – Dr Bill Spindle	Indefinite
• Academic Department Head – Dr Jeff Woldstad	2 years
• Staff Department Head – Ann Brentlinger	2 years
• President’s Representative: Dr Jade Herman	Indefinite
• Faculty Member – Dr Ivy Allard	2 years
• NFE Staff – Michelle Lineweber	2 years
• CSA Staff – Brad O’Brien	2 years
• Student Association CFO – Abigail Van Ruler	1 year
• NFE Council President – Chris Roman	1 year
• CSA Council President – Angela Mettler	1 year
• Faculty Senate President – Dr Kurt Katzenstein	3 years

• **Finance and Administration Staff: Deb Rowse, Cassie Furchner, Abbi Winter, and Jerilyn Roberts**

• **Committee Meeting Schedule:**

• Meetings will be held monthly starting in the fall semester of each year. Additional ad hoc meetings may be called by the Chairs as needed.

• **SOURCE:** Office of the Vice President for Finance and Administration, December 2022

Risk Update

Active Threat Training

- Wednesday, 11/8 – 2pm–3pm – King Center – Christensen Hall of Fame
- Thursday, 11/9 – 11am–12pm – CBEC2228
- Tuesday, 11/21 – 5pm–6pm – CBEC2228

State Risk Audit

- October 16-18

Night Safety Walk Complete

- October 11th – report to follow with action items

Facilities Update

State Project Update

- **Campus-Wide Energy Project** – 95% Complete
- **Nucor Mineral Industries Building** – Substantial Completion – October 2024
- **ARPA Funded Stormwater & Utility Project** – Bid Date – November 2024
- **O’Harra Lower Level Renovation** – Substantial Completion – March 2024
- **King Center HVAC/Utility** – Start Date – March 1st, 2024, Substantial Completion – August 2, 2024
- **CBEC Lecture Hall** – Substantial Completion – August 2, 2024 (summer project)
- **Surbeck Expansion** – Selection of Architect
- **Old Mineral Industries Asbestos Abatement** – Contract for Design
- **Old Mineral Industries Tunnel Reroute** – Contract for Design

Coming soon...

NFE and CSA Performance Evaluation Processes

- Last month we asked NFE and CSA employees to review and update their Position Descriptions (PDs) to prepare for the annual evaluation processes. This is the second year we will be using the new evaluation system in PeopleAdmin. This system pulls directly from the duties and expectations listed on the employee's position descriptions. PD updates were due to HR by October 16, 2023
- In the next month, we will be launching the performance evaluation processes in PeopleAdmin.
- More information to come!



- **Software Development**
 - Setting up new faculty and students
- **Networking & Security**
 - Wifi Tweaking (MI building in particular)
 - Enrolling more Fac/Staff machines into our cloud based PC configuration management
 - Upgraded residence hall door software to support new version of Transact server
- **Helpdesk/Classroom Support**
 - Laptop handout for incoming students
 - Laptop upgrades for students with 4 year old laptops
 - Upgraded hardware in some classrooms
 - D2L support for start of semester

Website Redesign Project

- Reduced from 3000+ pages to 500
 - Writing and editing content for these 500 pages

Intranet

- Content has been identified
- Ellucian Experience may be available soon (portal)
 - Integrates with Banner, D2L, DegreeWorks
- TDX and CMS will hold content

Google Analytics (October MTD 2023 vs October MTD 2022) Users:

- Direct Traffic: up 99.45%
- Organic Search: down 15.55%
- Display Ads: up 100.16%
- Organic Social: Up 145.05%
- Paid Search: Down 16%

Recruitment Ad Campaigns kicked off early September

20 ad campaigns (14 are program specific)
Goal: increase brand awareness, visits and inquiries

Undergrad

July-Sept	FY20	FY21	FY22	FY23	FY24
Visits Scheduled	341	312	391	343	336
Info Requests	237	254	226	250	240

Grad

July - Sept	FY20	FY21	FY22	FY23	FY24
Info Requests	47	38	50	68	77

Marketing & Communications

Social Media:

- Total Impressions: 473,335
- Total Engagements: 64,288
- Total Post Link Clicks: 22,525
- Video Views: 30,413
- Monthly Engagement Rate: 13.6%

Top Social Media Post

South Dakota Mines
24,705 followers
3w •

It's safe to say that whitewashing the M might be a Hardrocker's favorite pastime.
To see more photos from today, please visit <https://lnkd.in/gxWN5wSt> ...see more

Leslie Hill and 239 others
2 comments • 3 reposts

Like Comment Repost

M Day post on LinkedIn
– 11,378 impressions,
5,028 engagements

Traditional Media:

Dr. Ustunisk on SDPB

Using big data to explore Earth's innerworkings

SDPB Radio | By Lori Walsh, Ellen Koester, Ari Jungemann
Published October 7, 2023 at 9:39 AM CDT



▶ LISTEN • 8:21



Dr. Gokce K. Ustunisk and Dr. Roger Nielsen stand in Ustunisk's laboratory at South Dakota Mines.

Mailchimp:

Monthly @ Mines: 27.8% open rate

President's Letter: 53.8% open rate

The Forefront: 35.1% open rate

- NFE of the Month - September
 - Corinne Heiberger – WiSE Coordinator
- Events –
 - October: Curiosities of Campus – October 13
 - November: Friendsgiving Potluck – November 17
 - December: Holiday Social – December 8

Office Updates:

- Elected Leaders Luncheon – Mayor invite – 9/29
- ISI House – Dinner – 9/29
- BOR Meeting on Campus – 10/4 & 5
- BioWorx Dedication in Brookings – 10/12
- President's Scholarship Dinner held in Rapid City on 10/13
- 2nd President's Leadership Academy - Linn Evans was on 10/17
- Marketing & Communications Consultant - Seeworthy Studio
 - Kickoff meeting will be held on 10/30
 - Core team: Jim Rankin, Jade Herman, Molly Moore
 - Stakeholder team: Core team plus Lance Roberts, Joel Lueken, Laurie Anderson, Rob Hall

President's Upcoming Travel:

- Nov. 1-2 CAT/Komatsu visit in Peoria
 - Nov. 12-15 APLU Conference/development visits in Seattle
 - Dec 13-14 BOR Mtg @ SDSU
-

Upcoming Events:

- **Oct. 27** **University Advisory Board**
- **Nov. 30 – Dec. 3** **Alumni Pheasant Hunt**
- **Dec. 1** **Faculty & Staff Holiday Social**
- **Dec. 2 & 3** **Holiday Concerts at Cathedral**
- **Dec. 16** **Fall Commencement**
- **Jan. 29** **Mines Day @ The Capitol**
- **Feb. 13-14** **President's Leadership Academy –
Lorin and Mary Brass, plus Worldview Intelligence**
- **April 12** **President's Scholarship Dinner, Sioux Falls**

Updates

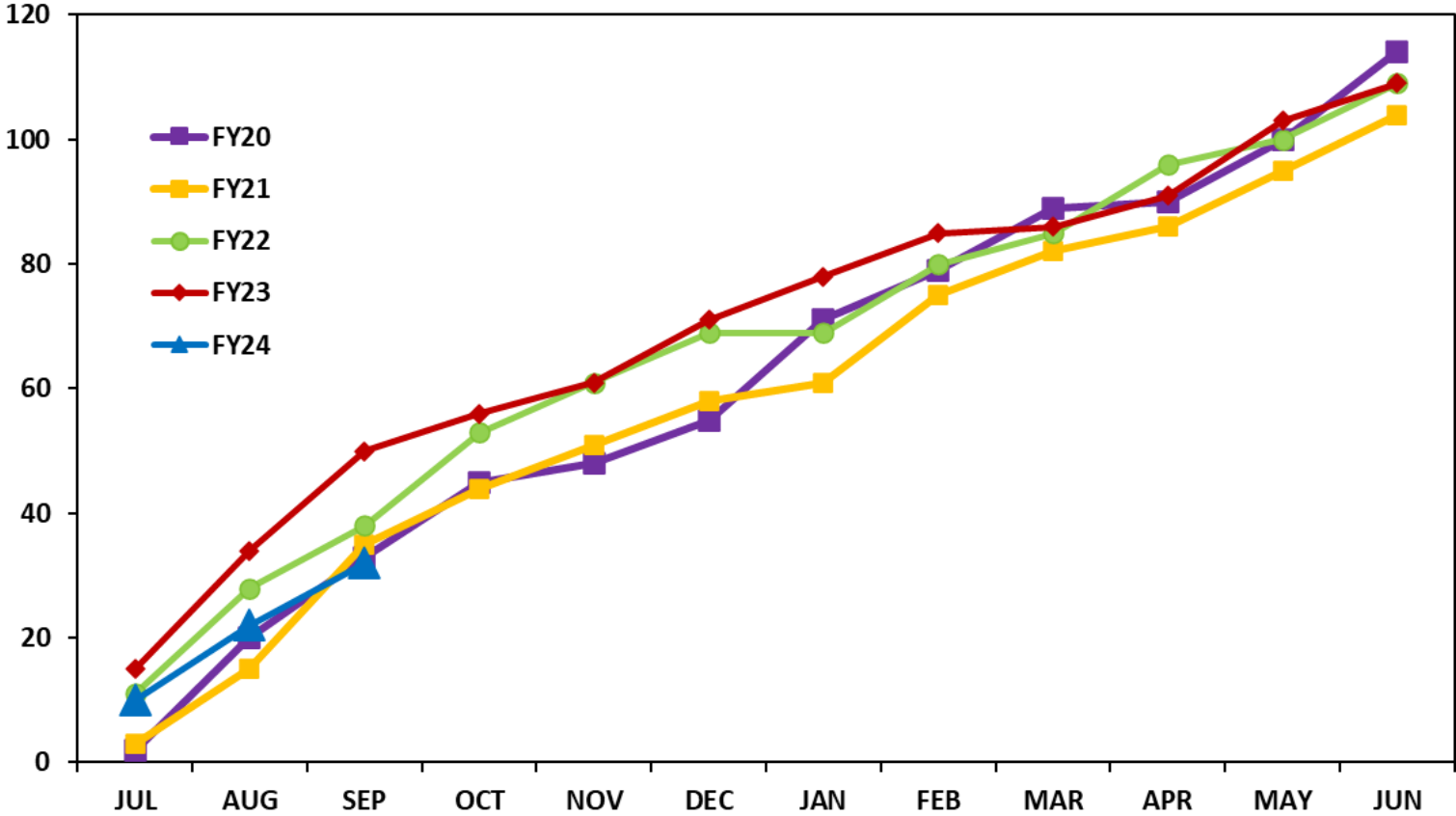
- **New Funding**

- David Martinez (Physics): Power Over Fiber R&D for the DUNE Vertical Drift Photon Detection System (DOE)
- Scott Wood (BioSNTR): PFI-TT: Validation of a Modular Osteoarthritis Disease Model System for Early Stage Pharmaceutical Drug Screening (NSF)

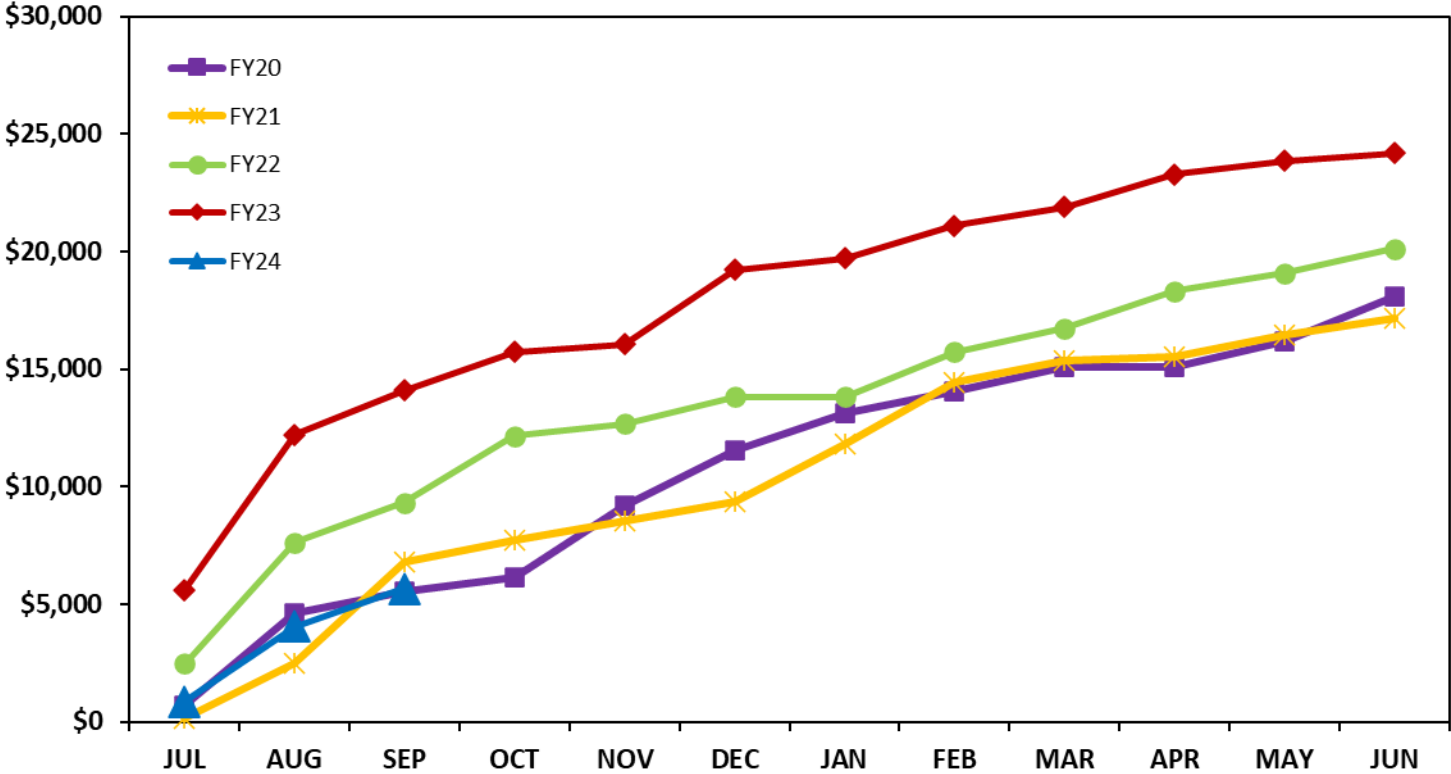
- **Events**

- Innovation Expo: Oct 17
- SD EPSCoR (NSF, NASA, NIH): Oct 25
- Open House-CNAM Bio: Oct 25

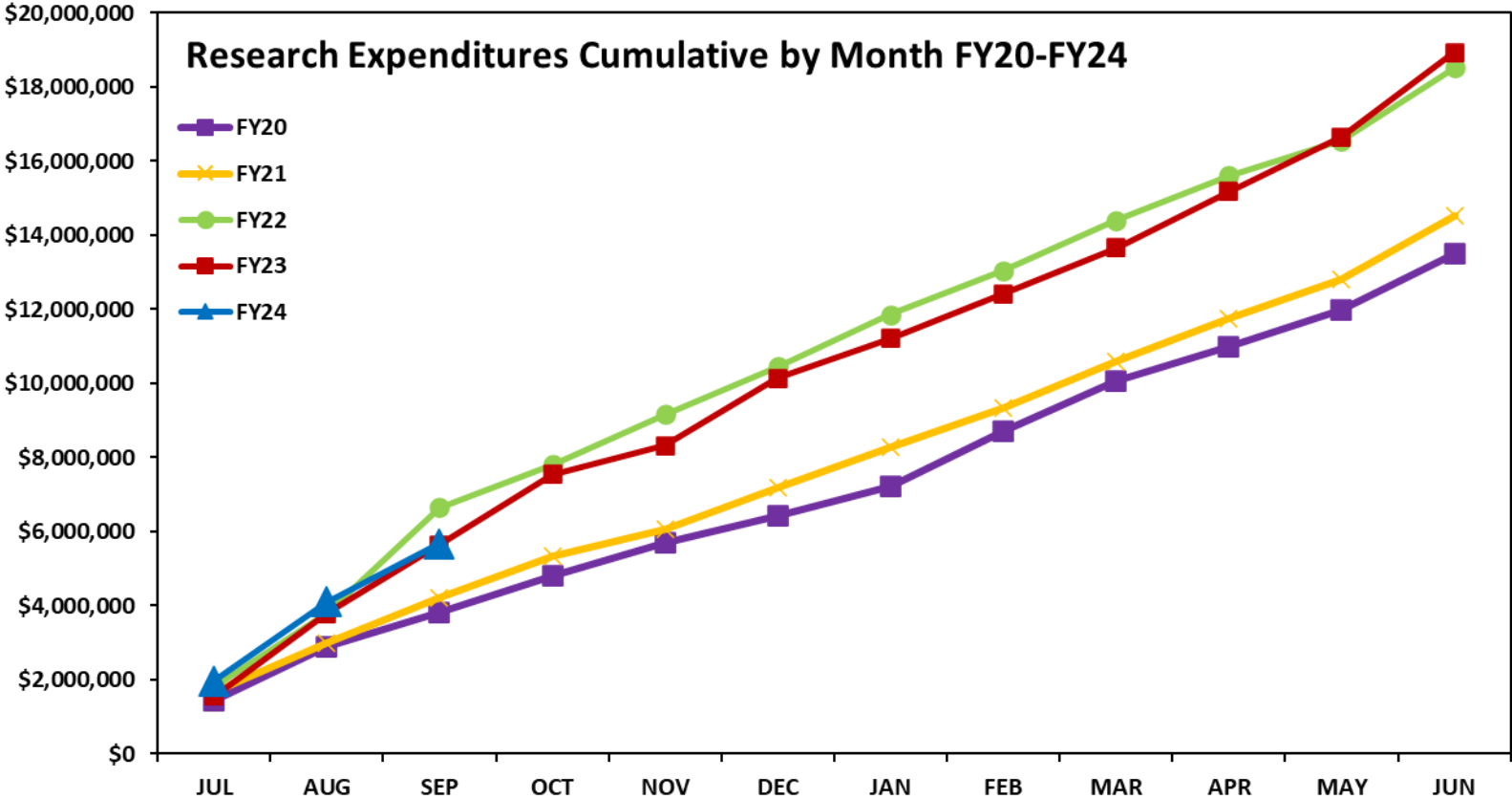
Cumulative Number of Awards by Month FY20-FY24

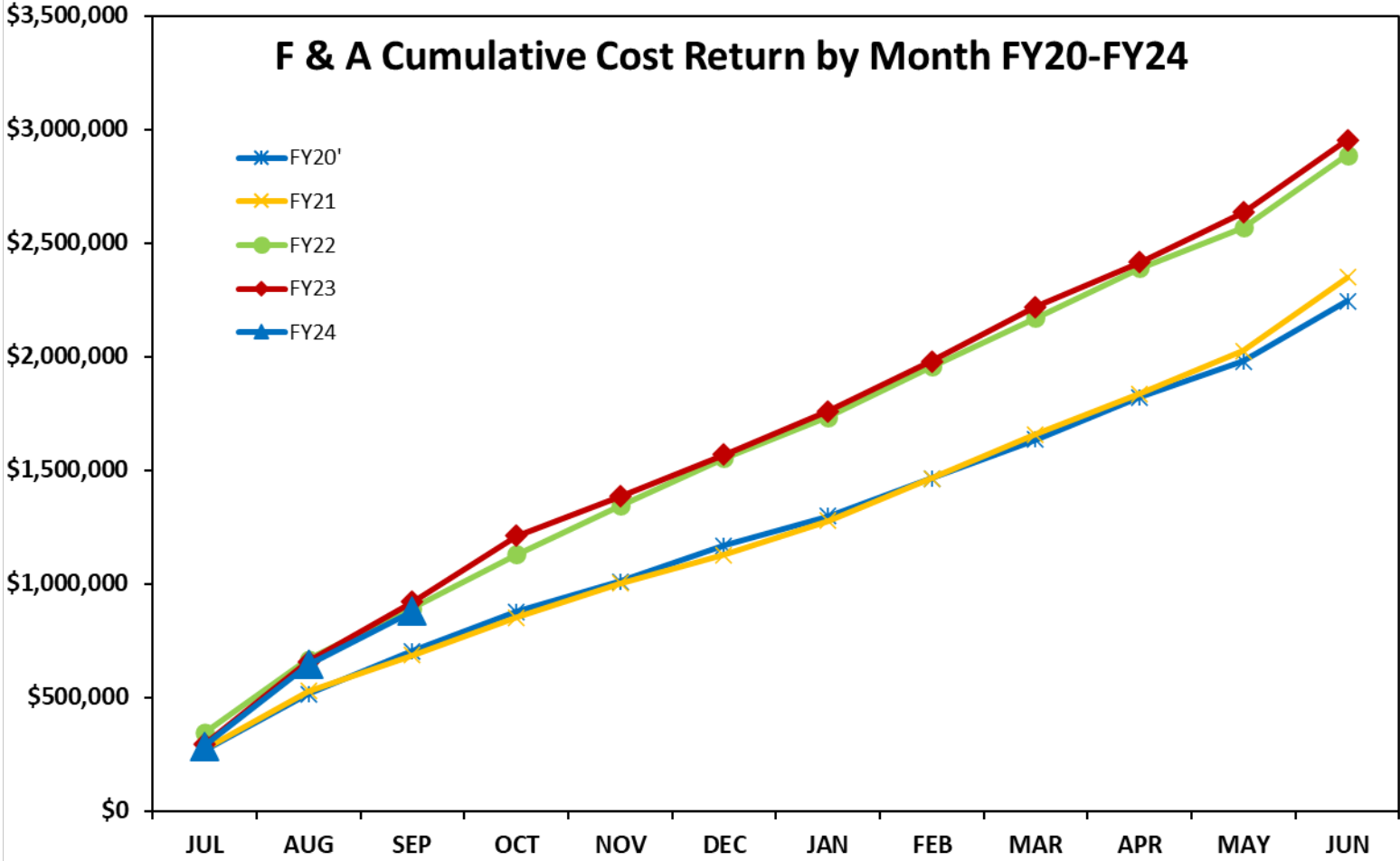


Cumulative Value of Awards (\$ K) by Month FY20-FY24



Research Affairs





Student Association

Student Development

Updates

- Family Weekend Held on 10/21 - 10/23
- Personal Development Promise Update
 - Presented to 6 student groups/classes
 - Presented to 8 Faculty Departments
 - 45 students participated so far
- New Contract with Rocker Internet Starting in January- 4X Current Speed

Upcoming Events

10/24- Pumpkin Carving

10/25- Wellness Weigh the Waste Event

10/25- Bughouse Chess Night

10/27- International Photo Contest Begins

10/27- Haunted Scavenger Hunt

10/30- Generations in the Workplace- PDP Session

10/31 Student Development Costume Contest and Halloween Party

11/1- Wellness Coping Skills

11/3- Community Service and Service Learning PDP Session