

FACULTY SENATE MEETING MINUTES  
 May 10, 2:00 – 4:00 pm, McNeil 213 and Zoom

**Attendees:**

**Voting Members:** 15 total (8 needed for quorum). Quorum was present

P	Sebnem Duzgun (Chair)	P	Ventzi Karaivanov (ME)	P	Linda Figueroa (CEE/MN)	P	Joseph Horan (HASS)
P	Jeff King (MME)	P	Yvette Kuiper (GE)	A	John McCray (CEE)	A	Cynthia Norrgran (CBE)
P	Bettina Voelker (CH)	P	Lawrence Wiencke (PH)	A	Pat Kohl (PH)	P	Brandon Dugan (GP)
P	Sid Saleh (EB)	P	Deb Carney (AMS)	P	Soutir Bandyopadhyay (AMS)		

**Other Regular Attendees and Guests**

P	Tracy Gardner (Trustee)	P	Rick Holz (AA)	P	Paul Myskiw (RO)	P	Colin Terry (Student Life)
P	Sam Spiegel (Mines Online)	P	Ethan Lewellin (USG)	P	Maxwell Silver (GSG)	P	Mara Green (AA)
P	Vibhuti Dave (UGS)	P	Tim Barbari (OGS)	A	Lori Kester (EM)	P	Carol E Smith (Library)
P	Karla Perez-Velez (CASA)	P	Deb Jordan (Trefny)	P	Tim Sorensen (PE)		

**Special Guest(s):** Wendy Adams (PH), Ebru Bozdag (GP), Mansur Ermilia (PE)

**Welcome**

Sebnem Duzgun

Welcome new Senators

Duzgun welcomed the three new Senators: Ebru Bozdag (Geophysics), Cristian Ciobanu (Mechanical Engineering), and Mansur Ermilia (Petroleum Engineering). Senate welcomed Karaivanov to a full, three-term position.

**Vote for 22-23 Faculty Senate President**

Sebnem Duzgun

Faculty Senate received one volunteer for Senate President candidacy, Jeff King.

**MOTION:** To approve Jeff King as the Faculty Senate President for the 2022-2023 academic year by Kuiper, seconded by Saleh. 11 for, 1 abstention.

**Academic Affairs**

Rick Holz

Holz thanked faculty for continued efforts during the COVID-19 pandemic and helping students to graduation. Holz thanked Duzgun for continued work with Faculty Senate.

Holz asked faculty to attend The Continuum hosted by the Society of Women Engineers on 5/11 and the commencement ceremonies on 5/13.

- **Question** on moving graduations permanently indoors; Holz noted previous weather conditions caused concern during graduation and future ceremonies would remain dependent on weather. The decision to do three ceremonies was an experiment for larger numbers of graduating students.

**Registrar's Office**

Paul Myskiw

No updates from the Registrar's Office.

**Approval of Minutes – April 26, 2022**

Sebnem Duzgun

**MOTION:** To approve the April 26, 2022 Faculty Senate minutes by Dugan, seconded by King. Motion passed unanimously.

### **Overview of Senate Activities from 2021-2022**

Sebnem Duzgun

Duzgun thanked the Faculty Senate executive committee members: Joe Horan (HASS), Bettina Voelker (CH), Jeffrey King (MME), and Yvette Kuiper (GE) for continued work during the 2021-2022 academic year.

Faculty Senate added new and additional channels of communication through face-to-face informal get togethers, an online suggestion box form for communication with faculty, and newsletters and meeting highlight emails. Student signature experience projects provided reports to Senate, the Board of Trustees, Mines Leadership, and the Foundation. IGPs will require continued review with AA. A Senate committee on online standards was established with Mines Online, a resolution was sent to AA on the results of the online survey sent to faculty. The Policies and Procedures committee sent a resolution to AA for the creation of an ombudsperson office and an ad hoc DI&A committee was established.

Senate created an ad hoc committee to address the tenure track faculty concerns on COVID-19 effects with a resolution sent to AA on short-term actions and recommendations.

Roel Snieder was the Faculty Senate Distinguished Lecturer of 2022; Ryan Richards was announced as the Distinguished Lecturer of 2023.

Senate's executive committee met with AA and Mines Leadership on the importance of strengthening shared governance and enhancing faculty engagement and Senate recommended: development of a formal process of incorporating recommendations from Senate into decisions and actions of AA, follow established processes defined in the Faculty Handbook and Procedures Manual, communication and context behind AA decisions, enhanced sense of community, well-defined expectations for service, and developing a culture of shared governance at Mines.

### **Committee Updates**

#### **Library Committee**

Brandon Dugan

Dugan provided review of library accomplishments.

The library improved student financial accessibility using Open Educational Resources (OER) saving around \$621k/year, course readings, and Open Access (OA) Journals through the innovation fund to publish in OA journals where twenty of twenty-one requests were selected.

The library implemented methods to engage and create an inclusive campus environment through space improvements like the multimedia production studio, reflection room, three renovated graduate study rooms, and expanded Scholars Hub furniture. The library adapted with the pandemic through Mindful Mondays, Concerts in the Library, Community Conversations, Library open houses, and the M-Climb. The library participated in DI&A through family-friendly, inclusive, and welcoming Busy Bags and new databases to support DI&A research.

The library cultivated STEM skills and fostered inclusive classroom environments through instruction, reference, and the Accessibility Course for Education. Instruction done through the Modern Researcher

501 graduate workshops, Emerging Scholars undergraduate workshops, and individual contributions. References done through the Book a Librarian program with over 1,117 queries. The Accessibility Course for Education had 35 participants and combined with seven Colorado institutions through a course openly available via Canvas Commons.

The library highlighted history, distinctive holdings, and Mines history through digitized distinctive collections and moving from a consortial repository to an independent platform. The library also enhanced its systems and platforms through digital projects and modernized licensure.

Dugan outlined challenges faced by the library including understaffing and major renovations.

#### Core Curriculum Committee

Vibhuti Dave  
Joe Horan

The committee charge outlined a hard deadline for 2023 and does not expect Senate vote on recommendations until Fall 2022; the committee goal is to provide recommendations by early Fall. The committee intends to work over the summer on plans with various options for credits, with the objective to reduce the core or remain the same number of credits.

The committee met with department heads last week with an update on the committee's plans and department heads to disseminate details to faculty for the committee to gain feedback.

- **Question** on the timeline with faculty out during the summer; Horan noted several members are representatives of departments within the core and other departments, the committee would regularly update department heads and colleagues.

Suggestion made to emphasize information to departments outside of the core that may be affected by changes; Horan reported representatives of non-core departments present on the committee for updates.

**MOTION:** To approve the proposed Core Curriculum Committee charge for the 2022-2023 Academic Year by Horan, seconded by Saleh. Motion passed unanimously.

#### COVID-19 Impacts Committee

Jeff King

The committee met with department heads to discuss the early action recommendations from the committee. There had been general support, with some concern of the legal implications for recommendation three that outlined provision of clear guidance on how COVID-19 impacts will be considered by the Departmental and University Promotion and Tenure Committees.

Communication to be drafted. Faculty asked to provide COVID-19 impacts in personal statements when submitting dossiers and having discussions with department head; suggestion made to include COVID-19 impacts in P&T training in spring. Department heads asked to reach out to junior faculty to have conversation over impacts; some junior faculty had not yet had the discussion with department heads.

Senate asked to be CC'd on communications with junior faculty regarding COVID-19 impacts recommendations.

- **Question** on consideration of impacts on teaching faculty, some concerns raised; committee could consider extending work for specific needs. Teaching faculty dossier deadline later in the semester compared to tenure-track.

### Research Council

Yvette Kuiper

Kuiper provided updates from committees of Research Council. Kuiper stepping off Faculty Senate and asked for Senate volunteers for Research Council chair.

### *Small Research Equipment/Instrumentation Investment (REI)*

Fund was established in 2021 and supported by RTT and the deans. Two calls for requests made per year, with the pilot program completed 2021-22. Requests funded in Fall 2021: ultraviolet light source for photoemission studies for \$14,360, PI Angus Rockett (MME) and Co-PI Xerxes Steirer; high-speed, 3D, Femtosecond laser micromachining platform (\$24,034) PI Jeff Squier (PH) and Co-PI Alexis Sitchler. Requests funded in Spring 2022: robust multi-drone testbed (\$25,702), PI Qi Han (CS); composite core handler for NMR/MRI and x-ray imaging (\$22,700), PI Kurt Livo (GP) and Co-PI Manika Prasad.

A one-year evaluation document was written with recommendations.

### *Research Council lecture series/Research Fusion*

Research Fusion designed as short, five-minute presentations by faculty in an informal setting to enhance campus community and networking. Foundation fund established to raise funds, eight presentations made in Fall 2021 and ten in Spring 2022, recordings were edited by the HIVE and posted to the Research Council website ([click here](#)).

Research Council lecture series hosted by the previous year Excellence in Research Award winners; Fall 2021 lecture by Mohsen Asle Zaeem (ME), Spring 2022 lecture by Robert Braun (ME).

### *Excellence in Research Awards*

Longest standing committee of Research Council, started a decade ago. One senior and junior award presented by Academic Affairs; Research Council evaluates nominations and provides recommendation. Council had revised rubric for evaluation, 2022 included six junior and four senior nominations. 2022 Excellence in Research Awards winners announced: Tzahi Cath (CEE) for senior award and Hao Zhang (CS) for junior award.

### *Research Communications*

Committee facilitated campus-wide research communications. Assisted in improving Research Facilities at Mines website ([click here](#)) and recommended automated data extraction from an inventory management software to build and update the webpage equipment list, include equipment with purchases lower than \$50k, further discuss the design on the user interface, and create an auto-query website. Committee investigated current practices at Mines and other universities with recommendations further revised, implementation in progress using TeamDynamix.

### *Definition and roles of non-T/TT researchers on campus*

Committee began in 2021 due to unclear definitions and roles with draft document prepared and modeled after the University of Colorado. The document had been run by HR, ORA, RTT, and the deans. ORA and RTT to lead larger effort with draft document and chair of committee included.

### *Strategic Instrumentation and Space*

Committee addressed any issues and started new initiatives related to instrumentation and space. REI funds and research communications committees, branched from previous committee efforts. Committee provided space inventory through Excel file and requested department strategic utilization plans, plans were not completed.

### *Graduate Stipends*

Issue raised by Tim Barbari in Spring 2021 with stipend variation in departments between \$24k and \$30k, minimum now \$26k. Committee considered ways of closing stipend gap between departments. Committee joint between Graduate Council and Research Council.

### *High-Performance Computing*

Advised on HPC-related policy issues due to policies non-compliance. Formed to facilitate communication between ITS, ORA, and the HPC community. Committee discussed three possible models and identified sustainable pathway forward with draft implementation plan complete. Compliance to be confirmed with ITS and ORA.

### *Mines Research Incentive Program*

MRIP to retain and attract faculty, committee provided feedback and recommendations for the program. Informal recommendations made in MRIP meeting attended by portion of committee to simplify the process.

### *Working Group – MURAC (Mines Undergraduate Research Advisory Committee)*

MURAC led by Lakshmi Krishna with members of Research Council providing feedback and assistance. SURF (Summer Undergraduate Research Funding) pilot program underway with \$75k for around twenty-five students with a time commitment of around 300 hours (thirty hours for ten weeks or forty hours for eight weeks).

### *Research Council Bylaws*

Council to propose changes to membership to allow all thesis-graduate degree granting interdisciplinary graduate programs to have a representative on Council; past Council chair to stay as non-voting-ex-officio member for one semester to facilitate continuity during chair transition.

### *Research Council Website*

Council website can now be accessed with meeting minutes, members, committees, and documents ([click here](#)).

### Student Signature Experience Committee

Sebnem Duzgun

Eight presentations provided video updates on the progress of the SSE project; video links to be provided to Mines Leadership and Foundation. Duzgun thanked project leaders and those involved for continued work.

### TRAIL Committee

Joe Horan

Committee worked with program change management office at Mines, ITS, and IR. Spent time on best means of implementation, new software, and existing systems. The steering committee membership has been finalized with first meeting scheduled for Fall 2022. Committee worked with HR on TRAIL director position to assist in interactions with constituents and working on campus with Dave.

## Overview of IGP Recommendation from 21-22

Tina Voelker

Original discussion began in Spring 2021 with Senate approval of first undergraduate interdisciplinary program, Quantitative Biosciences and Engineering.

Senate discussed management of IDPs and raised concerns of difficulty of cross-boundaries between departments with faculty and students in unclear spaces; other concerns included confusion of responsibilities, resources, courses, administrative support for the directors and students, compensation of the director, and dependence on informal arrangements between IDP faculty and department heads.

Senate provided IDP recommendation, approved May 2021. Document assessed defining faculty roles, recommendation of formal agreements or MOUs for directors and core faculty, recommendation to update Mines Guidance Documents, and continued discussion on a uniform approach to all items addressed in recommendation. Note made that tenure resides in academic departments and a 50/50 split between IDP and department would not be possible. MOU recommendations directed for faculty whose presence is necessary for the continuation of the IDP.

Senate requested information on what has been done so far. Holz reported on status of compensation for directors with a compensation model developed and put in place Fall 2021 based on metrics defining how large the job is with tiers. Largest programs receive \$10k in compensation and \$10k in operating budget; there is not a budget for administrative support.

## Undergraduate Council

Jeff King

Council final meeting 5/11 with mostly course changes and a program change on the way; final reports expected from Council subcommittees.

Search for 2022-2023 Council chair, Senators asked to volunteer.

## Graduate Council

Tina Voelker

### Graduate Council Membership Bylaw Change Recommendation

Council discussed extending voting membership to thesis-based interdisciplinary programs where five IGPs were historically represented in the Bylaws.

### **Programs for Vote** – Presented to Faculty Senate on 4/26/22

- 2.1            **UNIVERSITY HONORS PROGRAMS**  
                 [CIM 4/8; Provost 4/12; GC 5/4]  
                 **1 new program:**            MSNT-TEACH: MS in STEM Education

**MOTION:** To approve the new program MSNT-TEACH: MS in STEM Education by King, seconded by Dugan. Motion passed unanimously.

- 2.2            **MINING ENGINEERING**  
                 [CIM 4/8; GC 4/20 (Consent Agenda)]  
                 **2 program changes:**    MSPHD-ERDE: MS & PhD Program in Earth Resources  
                                            Development Engineering  
                                            MSPHD-MNEG: MS & PhD Program in Mining Engineering

*Request to add MNGN625 as a required course for MS/PhD in Mining Engineering and Earth Resource Development Engineering (ERDE).*

2.3 **OPERATIONS RESEARCH WITH ENGINEERING**

[CIM 3/1; GC 4/20]

**1 program change:** MSPHD-ORWE: Operations Research with Engineering  
*Routine changes based on Catalog updates from MATH and EBGN (from core courses: removal of MATH531, addition of MATH424).*

**MOTION:** To approve the curriculum items listed in items 2.2 and 2.3 in an omnibus Senate vote by Voelker, seconded by King. Motion passed unanimously.

**Adjourn**

Sebnem Duzgun

Meeting adjourned: 3:58 pm.

Next meeting: Faculty Senate returns August of Fall 2022.

**Graduate Council approved new courses**

GEGN568: Point Cloud Analysis in Earth Science and Engineering

MAED505: Mathematical Practices and the Social Context of Mathematics

MAED525: Pre-Algebra Teaching Techniques

MAED535: Computer Science Teaching Techniques

MAED562: K-12 Field Experience and Building Student Relationships

MAED564: Capstone Curriculum Design I

MAED565: Capstone Curriculum Design II

SCED515: Scientific Practices vs Engineering Design and the Nature of Scientific Knowledge

SCED533: Educational Psychology and Assessment

SCED545: Physics and Chemistry Teaching Techniques

SCED562: K-12 Field Experience and Building Student Relationships

SCED563: Dynamic Teaching: Motivation, Classroom Management, and Differentiation of Instruction

SCED564: Capstone Curriculum Design I

SCED565: Capstone Curriculum Design II