

*Approved at the 2/8/2019 meeting*  
**BOARD OF TRUSTEES OF THE COLORADO SCHOOL OF MINES**  
**MINUTES OF THE BOARD MEETING**  
Friday, November 30, 2018  
**COLORADO SCHOOL OF MINES**  
**Starzer Welcome Center, 1812 Illinois Street, Golden, CO 80401**

**I. Trustee Breakfast – 8:00 a.m., President’s Residence, 1722 Illinois Street**

**Executive Session**

8:00 a.m. Motion to move into executive session by Trustee Haddon; seconded by Trustee Truly. Motion approved 5-0.

Trustees present: Chairman Jorden, Trustee’s Haddon, McNeil, Starzer and Truly.

Mines executives and directors present: President Johnson, Interim Provost Boyd, EVP Volpi, VPSL Fox, VP Han and VPGC Walker.

The purpose of the Executive Session was to receive legal advice pursuant to §24-6-402 (3)(a)(II), C.R.S., and to discuss matters required to be kept confidential by federal law or statute pursuant to §24-6-402 (3)(a)(III), C.R.S., and employee matters pursuant to §24-6-402(3)(b)(I) C.R.S.

9:10 a.m. Motion to move to regular session by Trustee Haddon; seconded by Trustee McNeil. Motion approved 5-0.

**II. Regular Meeting – Starzer Welcome Center, Wagner Boardroom**

9:23 a.m. Meeting called to order by Chairman Jorden.

Trustees present: Chairman Jorden, Trustee’s Haddon, McNeil, Starzer, Truly and Swift.

Mines executives and directors present: President Johnson, Interim Provost Boyd, EVP Volpi, VPSL Fox, VPRTT Tompkins, VPGC Walker, Dean Kaufman and Dr. Cath.

**a. Consent Agenda**

1. The minutes from the October 18, 2018 and October 26, 2018 meetings submitted for approval.

Trustee Truly motioned to approve the minutes as presented; seconded by Trustee Haddon. Motion approved 5-0.

**b. Reports and Updates**

Board Committee Reports Trustee Haddon reported that there has not been another Finance and Audit Committee (FAC) and the Investment Advisory Committee (IAC) since last reported on October 17, 2018 and noted the next one is on December 4, 2018 with the auditors. Nothing to report.

President’s Report President Johnson thanked for everyone in advance for their time in the coming weeks for the Commencement events. He noted the Mines connection to the Mars Insight landing. Dr. Johnson briefly shared information regarding the visit from the Rector and other senior leaders from University of Peru. The purpose of this visit was to ask for Mines’ participation in research for sustainable mining. Dr. Tompkins provided additional details and the timeline. She noted their interest in creating their own research capabilities and that this effort would be led by Mines faculty. President Johnson noted the Computer Science team, CS@Mines, took first place at the Facebook International competition, taking home a \$10k check. In addition, the Cross Country team is going to the National Championship in Pittsburg on December 1.

Research activities and Tech Transfer Report Dr. Tompkins provided an overview on efforts to grow and diversify research funding detailing the three categories of ongoing efforts: Reactive, Proactive, and Strategic. She noted the Office of Research Administration (ORA) is working to streamline proposal processes and reviewed the external proposal submission process. There was brief discussion regarding collaborating with other universities and exploring new workshop and training opportunities. She reviewed the strategic opportunities and invited Dr. Mike Mooney to provide information on rapid tunneling and building an underground model for drilling projects as an example of a current strategic opportunity. Dr. Tompkins provided background on communication obstacles and shared how they are working towards solutions. Brief discussion followed regarding how faculty might shift into new directions to increase research impact.

Faculty Senate Report Dr. Cath reviewed ongoing Faculty Senate business. He provided information on the newly elected Senator, Dr. Andrew Herring, and noted that the Faculty Senate now includes three full professors. Dr. Cath provided an update on the upcoming vote for the new faculty Trustee who will replace outgoing faculty Trustee Hogue. He provided an update on the establishment of the new Research Committee under the Research and Tech Transfer office. Dr. Cath noted that the Faculty Senate voted to give voting privileges to USG and GSG representatives on councils and he provided information on the establishment of a task force to improve faculty evaluations.

### **c. Presentation and Discussion**

Unlawful discrimination and sexual harassment/violence policies Ms. Volpi introduced Ms. Karin Ranta-Curran to provide a brief overview of the proposed Department of Education Title IX rule changes. Ms. Ranta-Curran introduced Ms. Katie Schmalzel, Senior Deputy Title IX Coordinator. Ms. Ranta-Curran reviewed the rule-making process employed by the Department of Education for proposed changes. She gave an overview of the most material changes being proposed, and noted there is a 60-day comment period in place. Any changes, therefore, would not likely take place until the summer or fall of 2019. There was brief discussion regarding the proposed regulations.

### **d. Action Items**

New degree approvals Dr. Boyd requested the Board consider and approve two new degree programs and three certificate programs as presented, rename two existing programs, and delete two existing programs. In Mining Engineering: create a new program in Earth Resources Development Engineering, MS and Ph.D.; Rename Mining and Earth Systems Engineering to Mining Engineering, and delete the Engineer of Mines program. In Electrical Engineering: create graduate certificate programs in Data Science for Signals and Systems, Antennas and Radar Technology, RF and Microwave Engineering; and rename the Interdisciplinary: Operations Research with Engineering Ph.D. program to Operations Research with Engineering adding a new non-thesis masters option, the Interdisciplinary program would be eliminated. Dr. Boyd introduced Dr. Michael Wakin, from the Electrical Engineering Department, to answer questions regarding the certificate programs. There was brief discussion about the success of, and participation in, certificate programs since they are relatively new to Mines. Dr. Boyd noted that certificate programs and non-thesis programs are providing financial incentives to increase enrollment. There was discussion regarding the need for extensive marketing for certificate programs.

Dr. Jürgen Brune presented an overview of the proposed changes in Mining Engineering. He reviewed the program structure and course requirements for the new program, as well as provided an overview of market opportunities. Dr. Brune provided information on industry partnership opportunities and reviewed the outcome indicators for graduates.

Dr. Alexandra Newman provided an overview of proposed Operations Research with Engineering program that would replace the existing Interdisciplinary program with a specialty in Operations Research with Engineering. She reviewed the motivation for the program noting there is no similar program in Colorado that currently exists, and provided an overview of peer institutes' offerings, current funding and, the existing Ph.D. program that started in

2011 and has graduated approximately 10 students. Dr. Newman noted the program has synergies with other engineering program disciplines. There was discussion regarding the demand for and relevancy of the program.

Motion to approve the new degrees as proposed made by Trustee Haddon; seconded by Trustee McNeil.  
Approved 5-0.

**BE IT RESOLVED** that the Board of Trustees of the Colorado School of Mines approves creation of the following new graduate degree programs:

- *Earth Resources Development Engineering (MS non-thesis, MS Thesis, PhD)*
- *Data Science for Signals and Systems (Graduate Certificate)*
- *Antennas and Radar Technology (Graduate Certificate)*
- *RF and Microwave Engineering (Graduate Certificate)*
- *Operations Research with Engineering (MS non-thesis, PhD)*

*Rename:*

*Mining and Earth Systems Engineering (MS non-thesis, MS thesis, PhD) to Mining Engineering (MS non-thesis, MS thesis, PhD)*

*Discontinue:*

- *Engineering of Mines (ME)*
- *Interdisciplinary with a specialty in Operations Research with Engineering (PhD)*

Graduation list approvals Dr. Boyd asked the Board to consider and approve the mid-year graduation lists for December 14, 2018 with one noted correction.

Motion to approve the graduation lists as proposed made by Trustee Haddon; seconded by Trustee Truly.  
Approved 5-0.

**BE IT RESOLVED** that the Board of Trustees of the Colorado School of Mines approves the attached graduation lists.

Tenure approval Dr. Boyd requested the Board consider and approve tenure at hire for Dr. Anuj Chauhan, Professor with Tenure Chemical and Biological Engineering, and Dr. Leslie Lamberson, Associate Professor with Tenure, Mechanical Engineering.

Motion to approve tenure at hire as proposed made by Trustee Truly; seconded by Trustee Starzer. Approved 5-0.

**BE IT RESOLVED** that the Board of Trustees of the Colorado School of Mines approves the following recommendations of tenure:

**Tenure at Hire**

*Anuj Chauhan (Chemical and Bio Engineering): Recommend Professor with Tenure*

*Leslie Lamberson (Mechanical Engineering): Recommend Associate Professor with Tenure*

Parking garage changes Ms. Volpi reviewed the previously approved parking garage and classroom building cost and size. In order to more effectively utilize where the parking garage sits, the parking spaces will be increased from 650 to 760 and the square footage of the building has been increased from 20,000 gross square feet to 23,065 gross square feet. The total cost of the garage and the building increased from \$23.0 million to \$29.4 million, a total cost increase of \$6.4 million. Of that increase, approximately \$4.5 million is due to increase in parking spaces, size of the building, and a change in the previous cost estimate. The rest of the increase stems from the higher cost of site work, the expense of relocating the site occupants, and the cost of relocating the hazardous waste facility that were not included in the original cost estimate. Ms. Volpi reviewed

the proposed costs and funding plan, followed by discussion. Ms. Volpi noted that the project has already been bid and that the \$29.4 million is the final, fixed cost. Construction will start in January. Ms. Volpi asked the Board to consider and approve the increase in the cost of the parking garage as presented.

Motion to approve the parking garage changes as proposed made by Trustee McNeil; seconded by Trustee Truly. Approved 5-0.

***BE IT RESOLVED*** that the Board of Trustees of Colorado School of Mines hereby approves the changes to the cost of the Parking Garage and Classroom/Office Building project at a total cost of \$29.4 million to be funded \$23.0M by the original funding source (2017B Bonds), \$3.0M through savings from Residence Hall VI, \$0.8M from General Fund, and \$2.6M from existing reserves in the Academic Construction Fee if approved by the students (or other sources if not approved).

There was a brief discussion regarding the Residence Hall at 1750 Jackson Street construction and the mitigation of water on the site. It was noted that the water on the site was not unexpected and is manageable.

#### **e. Regular Written Reports**

Undergraduate Admissions Ms. Boyd provided an update to the report and noted 3500 applications have been submitted and 3000 are complete. Counselors are currently reviewing applications and there will be one more big push before holidays. Ms. Boyd provided an overview of the new Community of Scholars themed effort towards developing affinity as students are admitted. The first group of Community of Scholars are the Vanguard Scholars comprised of 150 female scholars. Ms. Boyd also highlighted a new program to bring high school students to campus to take introductory petroleum engineering classes in the spring.

Graduate Admissions Dr. Zhou noted that the data for the report is from October 31, and enrollment looks good. Discussion followed regarding recruiting international students. Dr. Boyd noted there is a new International Student director and he is looking at using current vacancies in creative ways and creating an admissions position and a development position for the graduate admissions office. Discussion followed regarding marketing in the graduate office and Dr. Boyd noted that Mines is currently conducting a search for a Marketing Director.

Capital Update Ms. Volpi provided an overview of the current capital projects, highlighting the construction starting on the new Operations building west of 6<sup>th</sup> avenue, which will include a new gravel lot for 120 parking spaces. She noted the Green Center roof replacement is going well and the Green Center is scheduled to reopen Fall 2019. In addition, work on the chiller plant work is going well. Ms. Volpi reviewed the Subsurface Frontiers Building, compared the potential traditional financing and Public Private Partnerships (P3) tracks, and projected timeline. She noted the anticipated timeline for project completion has moved up to Spring 2022. Discussion followed regarding the USGS agency's ability to sign a lease agreement at the time the building is completed. Ms. Volpi noted that currently, the USGS is not able to sign a lease, but over time, after occupancy, it will be the intent to attempt to move the agency to a formal lease arrangement. Ms. Volpi reviewed the Innovation Hub planning. She noted that she will bring the Master Plan to the Board's next meeting for consideration of approval.

Safety and Security report Ms. Volpi noted there was no significant incident to report. However, she briefly described an event at Mines Park where several units have their own air conditioning units that emit exhaust from the apartment. This caused an issue with the internal heater system, bringing exhaust through the apartment units. Facilities is working with Student Life to add to the rules and lease agreements that window air conditioning units are prohibited as safety risks.

CSM Foundation and Alumni Relations report Dr. Johnson provided information regarding the growth of business-related programs at Mines. He reported that a new three-person external committee formed, the

Business Education Advisory Committee, to give recommendations to increase business acumen of graduates and create programs related to business at Mines. The committee will share their observations in January.

Chairman Jorden acknowledged Admiral Truly's final meeting.

### III. Trustee Lunch – Noon in the Wagner Boardroom

11:30 a.m. Motion to move into executive session by Trustee Truly; seconded by Trustee Haddon. Motion approved 5-0.

#### **Executive Session**

The purpose of the Executive Session was to discuss legal advice pursuant to §24-6-402 (3)(a)(II), C.R.S.; employee matters pursuant to §24-6-402(3)(b)(I), C.R.S.; administrative actions and investigative reports involving students pursuant to §24-6-402(3)(b)(I), C.R.S.; and matters required to be kept confidential by federal law or statute statutes, pursuant to §24-6-402(3)(a)(III), C.R.S.

2:15 p.m. Motion to adjourn by Trustee Haddon; seconded by Trustee Truly. Approved 5-0

There being no further business, the regular meeting adjourned.



---

Anne Stark Walker, Secretary