

**Society for Mining, Metallurgy & Exploration Inc.**

Mineral & Metallurgical Processing Division  
February 27, 2022, 9:00-11:00 AM  
Marriott Downtown at City Creek  
Salt Lake City, UT

Meeting Minutes  
March 7, 2022

**Opening:**

The annual meeting of the Mineral & Metallurgical Division (MPD) of the SME was called to order at 9:00 am on February 27, 2022 in Salt Lake City, UT, by P. Garland Davis.

**Present:**

Garland Davis, Chair – Present  
Scott Shuey, Past Chair – Present  
Ronel Kappes, Associate Chair – Present  
Dave Meadows, First Vice Chair – Present  
Jaeheon Lee, Second Vice Chair – Present  
Tarun Bhambhani, Secretary-Treasurer – Present  
Aaron Noble, Technical Program Associate – On Phone  
Kimberly Mills, Membership Associate – Present  
Courtney Young – Technical Content Advisor- Present  
Mohammad Rezaee – MPD Outstanding Young Engineer- Present  
Zachery Zanetell – MPD Outstanding Young Engineer- Present  
Amir Eskanlou – Young-Leader Representative  
Fangyu Liu – Young-Leader Representative  
R. Nick Gow, Incoming Membership Associate – Present  
Chee Theng, SME Liaison – On Phone

**Guests:**

Michael Spicher, Xinbo Yang, Tim Myers, Deniz Talan, Jim Wickens, Adam House, Michael Moats, Hassan Amini, Pengbo Chu, Younes Shekarian, Diana Rodriguez, Thomas Rauch, Wencai Zhang, Sumedh Gostu, Hamid Akbari, Erik Spiller, Jackson Riley, Bennson anda, Baojie Zhang, Shuhua Han, David Perkins, Jordan Rutledge, Lana Alagha, and many others.... (est. +40 total)

**A. Approval of Agenda**

The agenda was unanimously approved as distributed.

**B. Approval of Minutes**

The minutes of the previous annual meeting were unanimously approved as distributed.

### **C. Safety Share**

Covid risks and mask wearing in meetings was discussed. With recent loosening of restriction by the CDC, SME allowed consensus decision for optional use of masks in meeting rooms. Those who desired or mandated to wear masks may do so without prejudice, those who chose to not wear masks were allowed to do so.

### **D. Open Items**

#### **1. Programming**

- a. The MINEXCHANGE 2022 SME Annual Conference & Expo's MPD technical program features 20 sessions, including a new joint session on Geometallurgy with the Mining & Exploration Division and sessions honoring Prof. Frank Aplan. The MPD contributed more than 90 technical presentations, with very few last-minute cancellations by presenters. The Monday afternoon plenary session included lectures honoring the division's major award recipients, and a certificate presentation to the Rong Yu Wan PhD Dissertation Scholarship Award recipient. The award winners from 2021 would also be recognized during the plenary session.
- b. Technical programming for the MINEXCHANGE 2023 SME Annual Conference & Expo will be led by David Meadows. An invitation was extended to all attendees to participate in the MPD Unit Committee Meeting in the afternoon.

#### **2. Social Functions and Fundraisers**

- a. MPD Scotch Nightcap – The Bass Metals band will perform at the 2022 event. Four title sponsors and seven supporting sponsors have been lined up, which will allow us to raise unprecedented amounts for our scholarship fund if costs hold.
- b. MPD Luncheon – Three title and four supporting sponsorships have been lined up.
- c. MPD Calendar – The 2022-2023 MPD Calendar will be distributed to all registered members of the MINEXCHANGE 2022 Annual Conference & Expo. Sponsorships of the 2022-2023 calendar were sold out in June 2021.

#### **3. Awards**

Antoine M. Gaudin Award – James E. Gebhardt  
Robert H. Richards Award – Kathleen A. Altman  
Milton E. Wadsworth Award – Matthew I. Jeffrey  
Arthur F. Taggart Award – Vivek Kashyap and Patrick R. Taylor  
MPD Outstanding Young Engineer Award – Michael Spicher  
Frank F. Aplan Award (shared with C&E Division) – Hsin-Hsiung Huang  
James Douglas Gold Medal Award (shared with TMS) – Deepak Malhotra

#### **4. Scholarships**

The MPD division gave out \$18,500 in scholarships to:

Outstanding Senior, Richard Klimpel Memorial Scholarship, \$5,000: Baxter Jones, Virginia Tech  
Outstanding Junior, \$2,400: Cole Kageos, Virginia Tech  
Outstanding Graduate, \$2,400: Zeynep Cicek, West Virginia University  
Graduate, \$1,200: Bin Ji, Virginia Tech  
Graduate, \$1,200: Isabel Penalzoza Araujo, University of Nevada, Reno

Undergraduate, \$1,200: Yoel Jesus Huamani Quilluya, Universidad Nacional de San Agustín de Arequipa  
Undergraduate, \$1,200: Jordan Gillis, Virginia Tech  
Undergraduate, \$1,200: Sudeshna Kundu, Indian Institute of Technology (Indian School of Mines) Dhanbad  
Undergraduate, \$1,200: Mohammad Anwar Karim, New Mexico Institute of Mining and Technology  
Rong Yu Wan Ph.D. Dissertation Scholarship, \$1,500: Deniz Talan, West Virginia University

#### 5. MPD Student Poster Contest

The MPD Student Poster Contest received 32 entries this year.

#### 6. MPD Student Video Contest

To be conducted in the fall every year starting 2022, creating a second touch point with students during the year – posters at the MINEXCHANGE SME Annual Conference & Expo and videos in the fall. Committee identified. Aaron will continue leading effort but recognizes need for succession plan for continuation. Envisions presentation to be student-focused research or project work from summer internships. Need title sponsor for this event.

#### 7. Metallic Student Design Competition

Sponsorship secure, 6 teams have advanced to the final round of contest, some will work virtually. Nick Gow is looking for committee to assist with organization, planning, administration and judging. Rio Tinto is sponsor, and other companies are contributing resources. Continued sponsorship is required for sustainable program success.

#### 8. Contribution to SME Foundation

MPD is likely to sustain contribution in 2022 pending outcome of MINEXCHANGE 2022 SME Annual Conference & Expo fundraising – tentatively have committed to \$10,100. To be earmarked toward SME Foundation PhD Fellowship and Career Development Programs.

### **E. Other Conferences**

1. Copper 2022 – Michael Moats and Scot Sandoval representing SME MPD.
2. Hydrometallurgy 2023 – Jaeheon Lee and Nick Gow co-chairs with assistance from Michael Free (TMS) and Gisele Azimi (MetSoc) as organizing committee members.
3. XXXII IMPC 2024 (SME) – John Marsden overall chair, Ronel Kappes and Tarun Bhambhani co-chairs.
4. Copper 2025 (SME/TMS sharing) – Michael Moats and Gerardo Alvear Flores (TMS) co-chairs.
5. World Gold 2025 (SME) – Nick Gow and Thomas Rauch co-chairs, will be held with MINEXCHANGE SME Annual Conference & Expo.
6. Extraction 2025 – Michael Moats overall chair, Kimberly Mills SME chair.

### **F. Other/New Business**

1. MPD Chair Garland Davis brought to vote an action requested by Michelle Kroger, SME Director of Finance & Administration. Discussion to move the MPD fund finances to an actively managed investment fund as compared to the current fixed (bond) instrument. Committee

voted unanimously in favor of doing so in the light of existing inflationary climate. This will be implemented at the end of the financial year.

2. MPD Chair Garland Davis inquired as to division interest to formalize participation with GMG group as an SME division, some members expressed their current involvement. Dave Kanagy wants division to identify core group, but assess whether GMG will be the only organization identifying standards going forward. Further information is required, and discussion was tabled for further consideration.

3. Technical Content- Discussion on driving value to membership- How do we develop online content; how do we stop reinventing the wheel and ensure sage wisdom is captured appropriately? Teach the Professor initiative at MST and Golden Opportunities by Nevada MPD were identified as models.

4. Committee and attendees discussed formation of a core group to manage poster contest, video contest and design competition, to update MPD on a regular basis was discussed. Recognized need but tabled discussion for 2022-23, extending responsibility of Membership Chair & Associate Membership Chair and engaging young leaders.

5. Reminder to all MPD Executive Committee members and other MPD committee representatives that SME membership needs to be in good status with dues paid.

6. Volunteer Process – express interest in participating with MPD Committees and Executive Committee, excellent to see the outpouring of participation with attendance at MPD Executive Committee meeting (est. attendance +40, exceeding meeting room capacity). Advised others interested in volunteering for MPD committees to “Pick their Passion.”

7. MPD Executive Committee recognized MPD Young-Leader representatives – Amir Eskinlou and Fangyu Liu for their contribution during 2021-22 and welcomed Deniz Talan and Younes Shekarian for 2022-23.

### **G. SME Leadership Visit**

Current SME President William Edgerton, incoming President Ronald Parratt, Executive Director David Kanagy and President-Elect Marc LeVier (also Past Chair of MPD) attended the meeting. All appreciated MPD efforts, reminders on mask wearing were issued, GMG was discussed. MPD expects handstands from David Kanagy in celebration of strong attendance at MINEXCHANGE 2022 Annual Conference & Expo.

### **Adjournment:**

Meeting was adjourned at 11:00 AM by Garland Davis.

Minutes submitted by: Tarun Bhambhani

Approved by: Garland Davis