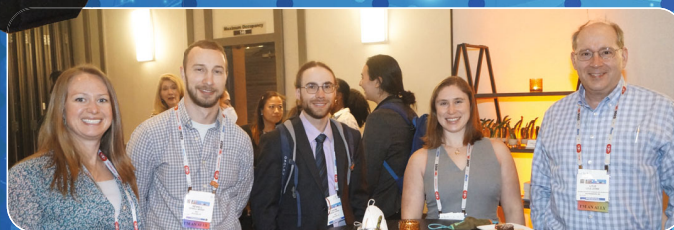




# REESTABLISHING CONNECTIONS AT TMS2022 NETWORKING EVENTS

Kelly Zappas and Megan Enright



The TMS 2022 Annual Meeting & Exhibition (TMS2022) marked a return to face-to-face meetings and personal interactions among colleagues. To make the most of this, TMS featured a number of networking events and receptions that allowed attendees to connect with people who shared their interests, whether those shared interests were based on particular technologies, career stages, or professional topics.

The following pages offer a look at some of the social and networking events that brought people together during TMS2022, February 27–March 3, 2022, in Anaheim, California.

## Awards Ceremony and Celebration Dinner

More than 50 individuals were recognized for significant achievements at all stages of their careers during the TMS-AIME Honors & Awards Ceremony and Celebration Dinner, held Wednesday, March 2. This event included presentation of awards by Acta Materialia Inc. and the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME), of which TMS is a member society.

The highest honors of the evening went to the 2022 Class of TMS Fellows, recognizing their outstanding contributions to the practice of metallurgy, materials science, and technology.

The full awards ceremony, including speeches from 2021 TMS President Ellen Cerreta and 2022 TMS President Jud Ready, is available to view as a single video through Channel TMS on YouTube at [www.youtube.com/user/ChannelTMS](http://www.youtube.com/user/ChannelTMS).

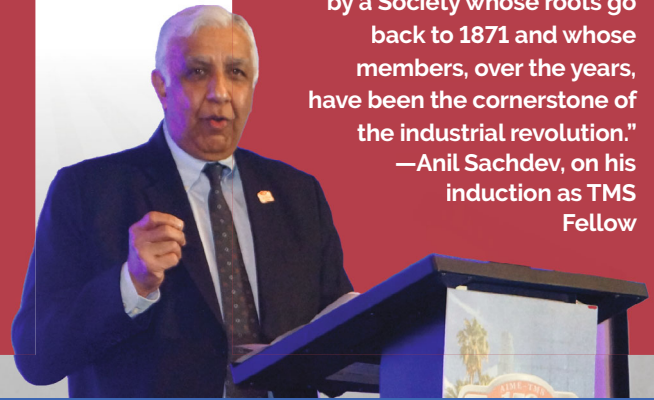
**"I think the biggest privilege of our occupation is that we can come in contact and have friendships with people all over the world, regardless of nation and world politics. I think TMS has been a catalyzer in all of these regards."**

**—Eduard Arzt, on his induction as a TMS Fellow**





"I also would like to thank all of the people that I collaborated with or interacted with, because your input has made our work so much better. I'm so fortunate to be part of this lifelong community with you all."  
 —Kathy Lu, on her induction as TMS Fellow



"It's remarkable to be honored by a Society whose roots go back to 1871 and whose members, over the years, have been the cornerstone of the industrial revolution."  
 —Anil Sachdev, on his induction as TMS Fellow

## Student Events

### 2022 TMS Materials Bowl: Escape to Anaheim



Pictured are (L-R) 2021 TMS President Ellen Cerreta, who hosted the Materials Bowl competition, with winning team members Ashlie Hamilton, Nicholas Johnson, Kevin Schmalbach, and Colton Gerber.

The University of Minnesota – Twin Cities team, Material Girls, won the 2022 TMS Materials Bowl knowledge and trivia competition held Sunday, February 27. Each member of the winning team received \$250 in prize money, as well as \$500 for their chapter and the honor of taking home the Materials Bowl trophy.

This year's competition featured a new, fast-paced format, which allowed teams to answer multiple-choice questions from their phones. Eleven teams participated in the first elimination round, with the top three teams progressing to the final round. The University of Florida Material Gators team came in second place and the South Dakota School of Mines & Technology team took third place.

### 2022 TMS Bladesmithing Competition

In the TMS2022 Exhibit Hall, a total of 18 student-created blades, produced by hand hammering or trip-hammer forging, were on display as part of the 2022 Bladesmithing Competition in Anaheim. The TMS Wadsworth-Sherby Bladesmithing Grand Prize, presented by Jeffrey Wadsworth in honor of Oleg Sherby and Garry W. Warren on behalf of the TMS Foundation, was awarded to Missouri University of Science and Technology for their pattern welded hunting sword (shown, below) at a special awards ceremony held on March 1.

Look for more extensive coverage of the 2022 Bladesmithing Competition in an upcoming issue of *JOM: The Magazine*.



Winners of the 2022 Bladesmithing Competition are below, L-R: Jeffrey Wadsworth (presenter), Hans Pommerenke, Jeremiah Cohn, Matthew Fitzmaurice, Kyle Hayden, and Garry W. Warren (presenter). The photo above shows their winning blade.



### Student Career Forum

On Tuesday, March 1, graduate and undergraduate students gathered to hear from panelists at the Student Career Forum. This interactive panel discussion provided students with the opportunity to ask questions and learn from the career experiences of six featured professionals working in industry, academia, and government.



This year's panelists included (pictured, L–R): Abby Cisko, moderator, University of Alabama; Ben Adam; Oregon State University; Stuart Nicol, Glencore Technology; Allie Anderson, Gopher Resource; Jonah Klemm-Toole, Colorado School of Mines; and Clinique Brundidge.

The students and panelists discussed a multitude of topics including, when is the right time (or when it's not) to go to grad school, research opportunities, how to find the right field for you, how to market yourself for employment, how to transition fields, and more. The experiences and advice shared by the panelists highlighted that there is more than one way to build a career in the materials science and engineering field. The panelists encouraged the students to keep building on their experiences and to take advantage of new and emerging opportunities to build their skills and follow their passions.

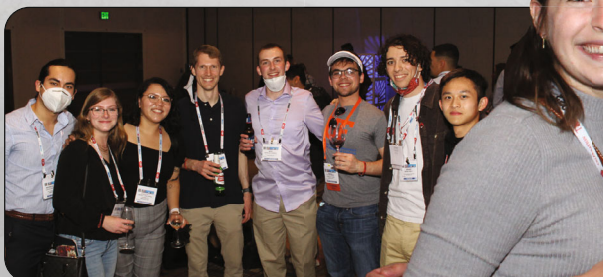
### Preparing a Winning Application Package Workshop

Students and young professionals explored how to prepare a winning application with a series of panelists and lead speaker, Mohsen Asle Zaeem (pictured below), Colorado School of Mines. This workshop covered best practices for the job application process, from creating a resume and cover letter to interviewing. The presenters provided in-depth details on all the parts of a winning application and offered some advice on the process. They implored attendees to ensure they follow all guidelines established, to tailor their material or experiences to be relevant to what they are applying for, to research where they are applying to, and to practice answers to interview questions.



Presenters encouraged workshop attendees to remember that this process is not only about the employer finding the right fit for them, but also the prospective employee finding the right fit, too. And, perhaps the most important piece of advice offered, to believe in their abilities and be confident in their endeavors.

### Student Networking Mixer



Students gather on Sunday night for refreshments and conversation at the Student Networking Mixer.



## Luncheons and Lectures

### EPD/MPMD Luncheon

"Sustainability is one of those topics that people have been talking about for a long time and will give lip service, but it's really happening," said Paul Krajewski of General Motors Global Research and Development Center. Krajewski delivered the featured talk at the Extraction & Processing Division (EPD)/Materials Processing & Manufacturing Division (MPMD) Luncheon.



As part of his presentation, "An Automotive View of Sustainability," he provided some highlights of what is being done in the industry. From advancing autonomous vehicles and converting plants to solar power to better end-of-life recycling, sustainability in the automotive industry goes beyond just fuel economy. "Sustainability is more than a buzzword; it's impacting all aspects of the automotive business," he said.

### SMD/FMD Luncheon Lecture

Kevin Hemker, Johns Hopkins University, delivered the featured presentation at the Structural Materials Division (SMD)/Functional Materials Division (FMD) luncheon, "Developing Metal MEMS Materials and Devices with Superior Properties and Stability."



Though roughly 80% (or more) of microelectromechanical systems (MEMS) are made of silicon, Hemker believes that metal MEMS sensors would be able to endure more aggressive environments. With many groups interested in developing an Internet of Things, sensors that can sense and tie together various objects will be in higher demand, and all will have different uses, from industrial process monitoring to smart homes.

"Now we're going to have to put sensors in harsh environments, and that's part of the motivation for moving to metal MEMS and seeing if we can get something that can be used at a higher temperature than silicon can and that has a little more toughness than silicon does," said Hemker.

His talk discussed various materials that could be used in MEMS applications, outlining each one's strengths, weaknesses, and potential.

### LMD Luncheon

Markus A. Reuter, SMS Group, spoke with members of the TMS Light Metals Division (LMD) at the LMD Luncheon and Lecture at TMS2022. In his presentation, "Light Metals: Key Enabler of the Circular Economy," Reuter defined circularity as bringing materials in a product back into the same product at the same quality.



"It's a hard task," said Reuter, who compared it to trying to recycle your coffee grounds from the previous day and still getting a drink with the same aroma and quality. The lecture highlighted the criticality of metallurgical processing infrastructure within the circular economy to produce high-quality light metals and materials (and products) from primary and secondary sources in the required closed loop of the circular economy.

Luncheon attendees also heard a brief presentation from LMD Scholarship recipient Jarrett Losecke, Iowa State University.

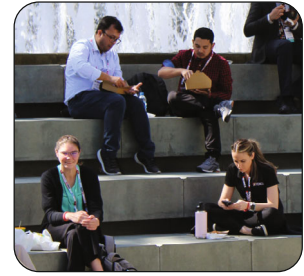
### Young Professional Tutorial Luncheon and Lecture

"It's not a work-life balance, it's a work-life integration," said Fadi Abdeljawad, 2022 TMS Early Career Faculty Fellow Award recipient, in his lecture, "Navigating the Academic Life: A Personal Perspective," at the Young Professional Tutorial Luncheon and Lecture. Abdeljawad began his lecture with a brief overview of his academic journey and career path. His presentation focused on ways to navigate in the academic field and advice for those considering it as a career path.



He underscored the importance of taking time to do the things that keep you sane, like taking time away from technology, making time for your hobbies, pursuing passion projects, and more when working in the academic field. He encouraged the young professionals to become masters in time management, to read voraciously, and to be active learners throughout their careers. Abdeljawad summarized his advice on navigating the academic field stating, "I don't really have an approach. . . it's trial and error," and encouraged the young professionals to forge their own paths.

## Networking Receptions



In addition to programming from the Fourth Summit on Diversity in the Minerals, Metals, and Materials Professions (DMMM4), diversity, equity, and inclusion events throughout the week included the diversity and inclusion breakfast, a celebratory lunch, and a DMMM4 preview mixer.

Indoor and outdoor coffee and lunch breaks allowed for informal networking opportunities between attendees.



The Fellows and Invited Guests Reception on Sunday, February 27, gave friends and colleagues a chance to catch up after time apart.

The Exhibit Hall was a great place for attendees to meet, with an opening reception, happy hour, poster sessions, and the Bladesmithing Competition display scheduled throughout the week.

## Meet the 2022 TMS Board of Directors

The TMS Board of Directors made the transition from the 2021 to the 2022 board during its meeting on March 3, at the conclusion of the annual meeting. Pictured is the 2022 board. Front row, L-R: James Robinson, Suveen N. Mathaudhu, Judy Schneider, Ellen Cerreta, Jud Ready, Brad Boyce, Christina Meskers, and Paul Ohodnicki. Back row, L-R: Timothy Rupert, Edward Williams, Charles Ward, Eric Brown, David Bourell, Viola Acoff, and Paul Mason.



### Find More Photos

In more than 500 photos gathered in 15 albums, you can take a visual stroll through TMS2022 by browsing the TMS Photostream on our Flickr site. Recap the many events and technical sessions held throughout the week at [www.flickr.com/photos/tmsevents](http://www.flickr.com/photos/tmsevents).