

TMS MEMBER NEWS

Share the Good News!

Contact Kaitlin Calva, *JOM: The Magazine* Principal Editor, at kcalva@tms.org to share your professional accomplishments. Please note that only news submitted by current TMS members will be considered.

TMS Leadership Participates in Congressional Visits

TMS leaders traveled to Washington D.C. to participate in Congressional visits where key legislative priorities for the Society and its members were discussed. On May 10, 2022, **W. Jud Ready**, 2022 TMS President; **Eric N. Brown**, TMS Public & Governmental Affairs (P&GA) Director; and **James J. Robinson**, TMS Executive Director, met with staffers from the offices of Representative Frank Lucas (R-OK), Senator Cynthia Lummis (R-WY), Senator Raphael Warnock (D-GA), and Representative Nikema Williams (D-GA), as well as with staff to the U.S. House of Representatives Committee on Science, Space &

Technology. Additionally, virtual visits were conducted on May 16, 2022, with the offices of Senator Jon Ossoff (D-GA), Representative Matt Cartwright (D-PA), and Representative Conor Lamb (D-PA).

The groups discussed TMS legislative priorities and promoted funding for science and workforce development. Specific conversations on artificial intelligence in materials and the importance of critical materials, as well as other important topics occurred. The Society also expressed its support for the speedy reconciliation of the U.S. Innovation & Competition Act (S.1260) and America COMPETES Act (H.R. 4521) and signing the Bipartisan Innovation Act into law. While they did not attend Congressional visits themselves, TMS thanks P&GA Legislative Subcommittee members Richard Otis, John Howarter, and Michael Titus, for their work in preparing materials in advance of the May meetings.

Learn more about the Society's legislative priorities and advocacy interests at www.tms.org/PGA.

Ready wrapped up his trip to Washington D.C. with a visit to TMS headquarters in Pittsburgh, PA. In the first in-person presidential visit to headquarters since 2019, Ready met with TMS staff members throughout the day to discuss current and future projects. Seen here, Ready was presented with a framed copy of the cover of the April/May 2022 issue of *JOM: The Magazine*, which features an artistic version of his presidential portrait as well as his incoming presidential perspective, by James J. Robinson.



James J. Robinson, TMS Executive Director; Eric N. Brown, TMS Public & Governmental Affairs (P&GA) Director; and Jud Ready, 2022 TMS President, participate in the first in-person Congressional visit for the Society since 2019 in Washington D.C.



Ready was presented with a framed copy of the cover of the April/May 2022 issue of *JOM: The Magazine*, which features an artistic version of his presidential portrait as well as his incoming presidential perspective, by James J. Robinson.

TMS Executive Director Jim Robinson, left, presents 2022 TMS President Jud Ready with his presidential portrait on the cover of the April/May 2022 *JOM: The Magazine*.

TMS Member Named Among 2022 Class of OTC Emerging Leaders

Congratulations to **Thomas Shattuck** who was named to the 2022 Class of Emerging Leaders by the Offshore Technology Conference (OTC). The OTC Emerging Leaders award recognizes professionals with fewer than 10 years of experience in the offshore technology sector who are making key contributions through their field of work, service to the industry, innovation, and focus on safety.

The value of their commitment to the industry is underscored by Leigh Ann Runyan, Executive Director of OTC, who notes that, "The ability to develop new solutions that help overcome the energy industry's most pressing challenges has always been dependent on hard-work, determination, and innovation; this year's Emerging Leaders class is filled with young professionals that understand what's at stake and have the ability to lead our industry into the future."

Thomas Shattuck is a TMS member and third-year law student at the University of Houston Law Center, where he serves as the chief Notes & Comments editor of the *Houston Law Review*. His studies focus on energy, oil and gas, and land-use law. Previously, Shattuck was a research manager for the Deloitte Research Center for Energy & Industrials where he analyzed trends in the global energy markets with a focus on LNG as well as upstream exploration and development. Before Deloitte, he worked as a market researcher covering deepwater and frontier oil and gas projects in North America. Shattuck also has hands-on experience working in the oil and gas industry, where he started his career as a field engineer for a leading oilfield services company in the Gulf of Mexico. He has moderated multiple technical sessions and panels at both OTC and OTC Brasil. He has published over two dozen articles on various topics including offshore oil and gas, the energy transition, and the global natural gas value chain.

TMS is one of 13 professional societies which sponsor the Offshore Technology Conference and



Thomas Shattuck was named a member of the 2022 class of Emerging Leaders at a dedicated ceremony on Tuesday, May 3, 2022, during the Offshore Technology Conference in Houston, Texas. (Photo by © OTC/Phil McCarten 2022.)

collaborate to develop a technical program that advances scientific and technical knowledge for addressing offshore resources and environmental matters. As a member of TMS, Thomas Shattuck serves on the OTC-TMS programming subcommittee which proposes and organizes technical programming for the annual conference.

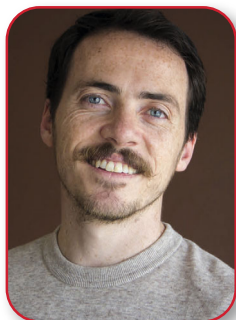
Jud Ready, 2022 TMS President, visited the 2022 conference where he also attended a meeting of the OTC-TMS programming subcommittee. While there, he thanked the members for their contributions to the continuing success of conference and engaged in lively discussions over emerging areas for programming.

TMS members with an interest in offshore technology and organizing technical sessions can learn more about joining the OTC-TMS programming subcommittee by contacting Ashley Bohnert, TMS Marketing Manager, at abohnert@tms.org.



Jud Ready, 2022 TMS President, attended the Offshore Technology Conference in May 2022 where he met with the TMS members who serve on the OTC-TMS programming subcommittee. Pictured left to right: Carlos Moreira, Jeffrey O'Donnell, Joe Gomes (co-chair), Indranil Roy (chair), Thomas Shattuck, Jud Ready (TMS President), Greg Kusinski (TMS representative, OTC Board of Directors).

Taylor D. Sparks Honored by University of Utah



TMS member **Taylor D. Sparks** was honored by the Office of Undergraduate Studies at the University of Utah with the 2022 Professor John G. Francis Prize for Undergraduate Student Mentoring. This prize is awarded to a member of University of Utah's faculty who has shown extraordinary efforts in mentoring students outside

the classroom.

At the University of Utah, Sparks is an associate professor in the Department of Materials Science and Engineering, as well as director of the Materials Characterization Laboratory. Sparks is also the director of the National Science Foundation (NSF) funded

Research Experience in Utah for Sustainable Materials Engineering (ReUSE).

Sparks was selected for this honor as recognition for the wide array of undergraduate mentorship activities he is responsible for, including ReUSE's summer research program, his work on the *Materialism Podcast*, forming and leading a bilingual Spanish/English outreach club, and more. In addition, at least one undergraduate co-author is included in 51% of his publications, 11 of his conference proceedings, and all six of his patents.

A member of TMS since 2014, Sparks recently served as the chair of the organizing committee for the inaugural World Congress on Artificial Intelligence in Materials and Manufacturing 2022 (AIM 2022). He also serves as a member of the TMS Computational Materials Science and Engineering Committee.

Chelsey Hargather Promoted to Associate Professor



Chelsey Hargather, TMS member since 2015, received tenure and a promotion from assistant professor to associate professor in the Materials and Metallurgical Engineering Department at the New Mexico Institute of Mining and Technology (New Mexico Tech). Hargather is one of six New Mexico Tech faculty members

to be approved for tenure and promotion by the New

Mexico Tech Board of Regents in May 2022.

In 2008, Hargather earned a bachelor of science from Virginia Polytechnic Institute and State University, and in 2012, she earned a doctorate from The Pennsylvania State University, both in materials science and engineering. She is a recipient of the 2021 TMS Structural Materials Division (SMD) Young Leaders Professional Development Award and has served on various TMS committees, such as the Young Professionals Committee; the Integrated Computational Materials Engineering (ICME) Committee; the Diversity, Equity, and Inclusion Committee; and more.

New Partners Join MS&T22



A new programming partner will join the Materials Science & Technology 2022 Technical Meeting and Exhibition (MS&T22): the **Society For Biomaterials (SFB)**. This collaboration will enhance the

meeting's programming, which already offers more than 80 symposia in 15 technical tracks. Three new symposia organized by SFB have been added to the MS&T22 symposium lineup:

- Biological Response to Materials and Material's Response to Biological Environments
- Biomaterial Applications
- Biomaterial Applications in Today's Industry: Development, Translation & Commercialization

In addition to the TMS Fall Meeting, MS&T22

will feature the American Ceramic Society's 124th Annual Meeting and the Association for Iron & Steel Technology's Steel Properties and Applications event, offering members an opportunity to network with groups doing research in related fields. New this year, MS&T22 will also feature two co-located commercial exhibitions:

- **The Advanced Materials Show USA**, showcasing the very latest in high-performance materials technology for applications including aerospace, automotive, electronics, energy, and medical technology
- **The Nanotechnology Show**, focused on the development and integration of nanotechnology within a range of applications including chemicals, life sciences, pharmaceutical, energy, electronics, automotive, and aerospace

MS&T22 will be held October 9-12 in Pittsburgh, Pennsylvania. For registration information, technical program details, or to learn about the MS&T organizing societies and partners, visit www.matscitech.org/MST22.

TMS Members Awarded at CMSC 2022

Three TMS members were honored at the 33rd Canadian Materials Science Conference (CMSC 2022) with the following awards. All three awardees presented at CMSC 2022 at the University of Toronto in June 2022. Congratulations to the recipients!

D.K.C. MacDonald Memorial Lecturer

Chosen by the CMSC Chair, the recipient of this award provides a lecture on an important focus to the conference.



Donald R. Sadoway

Professor of Materials Chemistry, Massachusetts Institute of Technology

Presentation: "Electrochemical Pathways Towards Deep Decarbonization and Profitable Sustainability"

Donald R. Sadoway has been a member of TMS since 1978 and was a member of

the 2021 class of TMS Fellows. Sadoway is also a recipient of the 2013 Extraction & Processing Division (EPD) Distinguished Lecturer Award and the 2014 Educator Award. He has volunteered on a variety of TMS committees including, the Student Affairs Committee, the Reactive Metals Committee, and the Education Committee, as well as on the Light Metals Division Council. At the TMS 2022 Annual Meeting & Exhibition, the first Sadoway Materials Innovation and Advocacy Award recipient was awarded. This award was endowed by Sadoway's students, friends, and colleagues to honor his influence on them, the Massachusetts Institute of Technology (MIT) Department of Materials Science and Engineering, and the global materials science community.

MATERIALTM
ADVANTAGE

The Student Program for Materials Science and Engineering

Welcome to Our New Material Advantage Chapters

The TMS Board of Directors have approved a new Material Advantage chapter charter for:

Sri Sivasubramanihi Nadar
College of Engineering,
Tamil Nadu, India

**Welcome to the Material Advantage
and TMS family!**

Metal Chemistry Award

This award recognizes outstanding contributions to metallurgical chemistry.



Joseph McDermid

Professor, McMaster University

Presentation: "Towards Managing Advanced Steel Surface Chemistries in Continuous Annealing and Galvanizing"

A TMS member since 2004, Joseph McDermid has been a frequent attendee of TMS

annual meetings. He received a bachelor's degree in metallurgical and materials engineering in 1985 from Queen's University and a Ph.D. in metallurgical engineering in 1992 from McGill University and has been working at McMaster University for over 16 years. Previously, from 1992 to 2003, he was a senior scientist at Noranda Technology Centre. McDermid also served as editor-in-chief of the *Canadian Metallurgical Quarterly* from 2013 to 2021.

Metal Physics Award

This award was conceived to recognize achievements in fundamental physics of importance to the understanding of metals as materials. Since its first awardee in 1977, this award has been bestowed for excellence in a broader range of research achievement, including advancement in non-metallic materials.



Scott X. Mao

Professor, University of Pittsburgh

Presentation: "Atomistic Processes of Deformation in Nanocrystals with In-Situ High Resolution Transmission Electron Microscope"

Scott X. Mao has been a member of TMS since

1993. He has served on various TMS committees, including the Mechanical Behavior of Materials Committee, the Structural Materials Committee, and the Nanomechanical Behavior Committee. Mao earned his Ph.D. from Tohoku University in 1988 and has worked at MIT, Harvard University, and the University of Calgary. Currently, Mao is the John Swanson Endowed Professor in the Department of Mechanical Engineering and Materials Science at the University of Pittsburgh.

Considering PE Licensure? TMS Can Help

TMS offers resources that can help you prepare now for the Metallurgical and Materials Engineering PE Licensing Exam in October, including our August online review course and our PE study guide PDF. The U.S.-based Principles and Practice of Engineering (PE) licensing exam identifies individuals who can practice professional engineering in such a manner that will safeguard life, health, and property and promote the public welfare.



For the third year in a row, TMS is offering an online format for the **TMS Metallurgical and Materials Engineering Professional Engineer (PE) Licensing Exam Review Course**, the only review course focused specifically on the Metallurgical and Materials Engineering PE Licensing Exam. Live online instruction is scheduled for August 1–3 and 8–10, 2022, with recordings available to participants through October 31, 2022, to help them better prepare for the National Council of Examiners for Engineering and Surveying (NCEES) exam. Learn more about the curriculum at www.tms.org/PEReview2022. If you are interested in registering for this program and accessing course materials after the course start date, please contact TMS Meeting Services at mtgserv@tms.org or 1-724-776-9000.

TMS offers the **Study Guide for Principles and Practice of Engineering (PE) Exam-Metallurgical and Materials Engineering, 2022 Revised Edition**, which contains sample problems and solutions relating to the Metallurgical and Materials Engineering PE exam. The PE exam will be administered in computer-based format for the first time in October 2022. This revised edition of the study guide reflects the transition to this computer-based format and changes to exam management. Exam specifications have not changed, and the problems in this guide are designed to acquaint the reader with typical examinations given by the NCEES. The guide, free for TMS members and \$39.00 for non-members, can be found at www.tms.org/PE.

The TMS Professional Registration Committee originated the PE Metallurgical and Materials exam and maintained it for more than 20 years. In 2021, the responsibility for exam development transitioned from TMS to NCEES. TMS continues to offer study aids to assist members in preparing for the exam. Learn more at the TMS Professional Engineering Registration website, www.tms.org/PE.

In Memoriam

TMS offers condolences to the friends, family, and colleagues of the following members:

Joseph L. Anjier passed away in July 2020. A TMS member since 1981, Anjier was a long-time member of the TMS Aluminum Committee and a previous member of the Light Metals Division Council. In 1960, Anjier graduated from Colorado School of Mines with a degree in petroleum refining engineering, and in 1977, he earned a master of business administration from Louisiana State University. After completing active duty as a first lieutenant in the Army Corp of Engineers, Anjier went on to work for Aerojet-General Corp. as a materials engineer. In 1964, he began working for Kaiser Aluminum as a chemical engineer and continued to work for Kaiser Aluminum and its affiliates for 38 years. After retiring from Kaiser Aluminum in 2002, he formed the engineering consulting company, JA Engineering Services LLC.

Richard J. Arsenault, a TMS member since 1961, passed away in April 2022. Arsenault received a bachelor's degree in materials science in 1957 from Michigan Technical University and a Ph.D. from Northwestern University in 1962. He worked as a research metallurgist at Oak Ridge National Laboratory before accepting a faculty position at the University of Maryland. Arsenault also served as a member of the Air Force Scientific Advisory Board. He served on a variety of TMS committees, including the Composite Materials Committee, the Nuclear Materials Committee, the Honors and Professional Recognition Committee, and the Mechanical Behavior of Materials Committee. Arsenault was a member of 1998 class of TMS Fellows and a recipient of the Alexander Scott Distinguished Service Award.

Curtis M. Jackson, a TMS member since 1952, passed away in December 2021. Jackson earned a bachelor of science degree in metallurgical engineering from New York University, graduating in 1954. After graduating, he began working in research management for Battelle Memorial Institute, for which he would work for 36 years. In 1959 and 1966, he received an M.S. and a Ph.D., respectively, in metallurgical engineering from The Ohio State University. He served as the chairman of the North Central Region of the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME).

TMS also offers condolences to the friends, family, and colleagues of the following members who passed away.

Gustaf Frederic Bolling **Alfred A. Hendrickson**
John M. Boxall **James A. Holmquist**
Jesse A. Smith