



## member news

Share the good news about your professional accomplishments! Contact Kaitlin Calva, JOM Magazine Managing Editor, at kcalva@tms.org. Please note that only news submitted by current TMS members will be considered.



David McDowell



Dan Thoma

# Congratulations to TMS Award Recipients; New TMS Meeting on AI Seeks Abstracts

## Additional TMS Awards Announced

TMS would like to congratulate the following TMS members on receiving awards from the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME) in addition to two TMS Division Awards, honoring work appearing in two of TMS's journals: *JOM* and the *Journal of Electronic Materials (JEM)*. The honors were conferred at various events held during the TMS 2021 Virtual Annual Meeting & Exhibition on March 17, 2021. Recordings of the TMS-AIME Awards Ceremony as well as the TMS Technical Division Award Ceremonies are freely available to view at awards.tms.org.

### AIME Honorary Membership Award

#### David McDowell

*Georgia Institute of Technology*  
**Citation:** "For contributions to multiscale modeling and design of structural materials, microstructure-sensitive simulation of fatigue property variability, and leadership in materials innovation."

#### Dan Thoma

*University of Wisconsin-Madison*  
**Citation:** "For sustained technical contributions, distinguished service, and continued leadership for the engineering profession, in multiple efforts affiliated and associated with AIME."

### Functional Materials Division JEM Best Paper Award

**Lisa M. Porter, Luke A.M. Lyle, and Robert F. Davis, Carnegie Mellon University; Serdal Okur and Gary S. Tompa, Structured Materials Industries Inc.; and Venkata S.N. Chava, Matthew L. Kelley, M.V.S. Chandrashekar, and Andrew B. Greytak, University of South Carolina**  
**Paper:** "Characterization of Epitaxial b-(Al,Ga,In)<sub>2</sub>O<sub>3</sub>-Based Films and Applications as UV Photodetectors," *Journal of Electronic Materials*, November 2020.

### Light Metals Division JOM Best Paper Award

**James Matthew, Guillaume Remy, Mark A. Williams, Fengzai Tang, and Prakash Srirangam, Warwick Manufacturing Group, Warwick University**  
**Paper:** "Effect of Fe Intermetallics on Microstructure and Properties of Al-7Si Alloys," *JOM*, December 2019.

### Structural Materials Division JOM Best Paper Award

**Zachary D. Brunson, Colorado School of Mines; Adam L. Pilchak and Eric J. Payton, U.S. Air Force Laboratory; Satish Rao, UES Inc.; and Aaron P. Stebner, Georgia Institute of Technology**  
**Paper:** "An Expanded Martensite Variant Selection Theory Accounting for Transformation Rotations and Applied Stress Fields: Predictions of Variant Clusters in Titanium," *JOM*, October 2020.

**TMS2021  
Virtual  
Recordings  
Available**



If you missed the TMS 2021 Virtual Annual Meeting & Exhibition (TMS2021 Virtual), held live March 15–18, 2021, you still have a chance to view recordings. Registration for TMS2021 Virtual is still open and provides access to recorded technical presentations from more than 85 symposia in 13 topic areas, such as additive technologies, light metals, advanced materials, energy & environment, and more. Technical programming and the plenary session presentations from the fifth International Symposium on Nickel and Cobalt (Ni-Co 2021) will also be included. Additionally, all registrants will gain electronic access to the TMS2021 Virtual published conference proceedings, which includes 11 titles.

Registration and presentations will be available through May 31, 2021. Learn how to register and begin accessing these resources at [www.tms.org/TMS2021](http://www.tms.org/TMS2021).



## New Artificial Intelligence Meeting Opens Call for Abstract

The TMS World Congress on Artificial Intelligence in Materials and Manufacturing (AIM 2022) is the first event of its kind to focus on the role of artificial intelligence (AI) in materials science and engineering and related manufacturing processes. AIM 2022 will convene stakeholders from academia, industry, and government to address key issues and identify future pathways.

“TMS has been a long-time and early supporter of the Materials Genome Initiative. The role that artificial intelligence can play in materials research has been explored previously by TMS committees including the Materials Innovation Committee, Artificial Intelligence Subcommittee, and Integrated Computational Materials Engineering Committee,” said Taylor Sparks, chair, AIM 2022 organizing committee and associate professor and associate chair, Materials Science and Engineering Department, University of Utah. “The time is now right for a dedicated conference to bring together the broader community of researchers focusing on these exciting new techniques.”

Authors are encouraged to submit their work for consideration by the deadline of

**September 3, 2021.** Abstracts are invited on the following topics: intelligent/robotic manufacturing; artificial intelligence in specific manufacturing process (e.g., forming, casting, additive manufacturing); machine learning/deep learning in materials and manufacturing; computer vision for materials and manufacturing R&D; autonomous materials research; AI-assisted development of new materials/alloys; human-AI collaboration for materials and manufacturing problems; and organizational impacts of artificial intelligence in materials and manufacturing.

The event is set for April 3–6, 2022, at the Pittsburgh Marriott City Center in Pittsburgh, Pennsylvania. For details and to submit an abstract, visit the congress website at [www.tms.org/AIM2022](http://www.tms.org/AIM2022).

To learn more about this topic before the congress, view the four-part webinar series, Artificial Intelligence in Materials: Research, Design, and Manufacturing. Recorded live in February 2021, this program is still available in the TMS Webinar Library at [www.tms.org/WebinarLibrary](http://www.tms.org/WebinarLibrary). TMS members can view the entire series for free, while non-members can purchase the series for \$100.

## In Memoriam

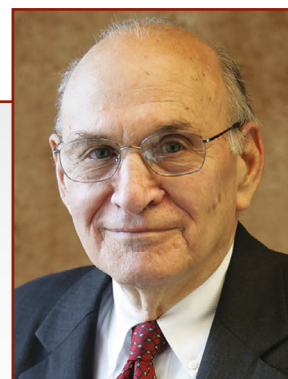
TMS extends its condolences to the family, friends, and colleagues of the following members:

**George Dieter**, a TMS member since 1951, passed away in December 2020 at the age of 92. Dieter was professor emeritus of mechanical engineering, Glenn L. Martin Institute Professor of Engineering, at the University of Maryland (UMD). As dean of the A. James Clark School of Engineering at UMD from 1977–1994, Dieter worked to grow the university’s programming and prestige. The University of Maryland recently named its materials teaching lab the George E. Dieter Jr. Materials Instructional Laboratory to honor his legacy. Additionally, Dieter authored *Mechanical Metallurgy* and co-authored *Engineering Design*, both of which are considered essential textbooks for the field.

Dieter is a 1993 TMS Fellow and received the 1994 TMS Educator Award (now the Julia & Johannes Weertman Educator Award). He was elected to the National Academy of Engineering in 1993 “for contributions to engineering education in the areas of materials design and processing.”

**George R. St. Pierre**, distinguished professor and chair emeritus in The Ohio State University’s (OSU) Department of Materials Science and Engineering, passed away at the age of 89 in March 2020. After an active-duty tour in the U.S. Air Force Materials Laboratory, St. Pierre joined OSU faculty in 1957, where he held a variety of positions in addition to his role as professor, including dean of the University Graduate School and chair of the Metallurgical Engineering, Mining Engineering, and Materials Science and Engineering Departments. After his retirement in the 1990s, he worked in the Materials Directorate at the Wright-Patterson Air Force Base and continued to participate in OSU programming until 2019.

St. Pierre was the recipient of the 1976 TMS Fellow Award, 1994 TMS/AIST John F. Elliot Lectureship Award, and the 1996 TMS Educator Award. He was a TMS member since 1953.



George Dieter



George R. St. Pierre