



## member news

Share the good news about your professional accomplishments!

Contact Kaitlin Calva, JOM Magazine Managing Editor, at [kcalva@tms.org](mailto:kcalva@tms.org).

Please note that only news submitted by current TMS members will be considered.

# TMS Pinnacle Award to Celebrate 100 Years; Diran Apelian Receives Award

## Nominate a Colleague for the 100th IOM/Mehl Award

One of TMS's highest honors will celebrate its centenary anniversary in 2021: the Institute of Metals/Robert Franklin Mehl (IOM/Mehl) Award. This happens to coincide with the 150th anniversary of the founding of the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME)—the antecedent society of TMS. An ad hoc committee has been established to plan a grand celebration at the TMS 2021 Annual Meeting & Exhibition, with the 100th IOM/Mehl Award recipient playing a key role in 150th anniversary activities.

As this award consists of a lectureship, recipients are considered two years in advance of the award year. **Applications are being accepted for the 2021 IOM/Mehl Award until April 1, 2019.**

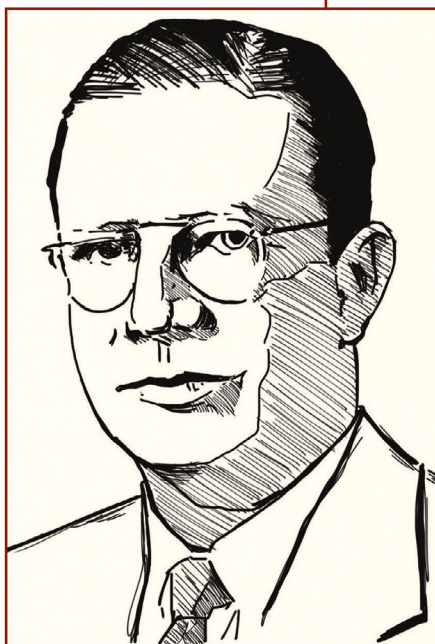
To nominate a colleague for this honor, completed applications, including a nomination form, nominator's supporting statement, current resume or curriculum vitae, and two to five letters of recommendation, must be submitted to TMS staff at [awards@tms.org](mailto:awards@tms.org). Additional criteria and information are available at [awards.tms.org](http://awards.tms.org).

Originally known as the IOM Lecture, the award was established by the Institute of Metals Division of AIME, a precursor to The Metallurgical Society that eventually became TMS. In 1972, the TMS Board of Directors approved the creation of a new award, the Robert Franklin Mehl Award, and its addition to the existing IOM Lecture. Today's combined IOM/Mehl Award recognizes an outstanding scientific leader by inviting him/her to present a lecture at the Society's annual meeting on a technical subject of particular interest to members in the materials science and

application of metals program areas. The honoree's lecture will also be published in an issue of *Metallurgical and Materials Transactions A*.

A deserving namesake for this pinnacle award, Robert Franklin Mehl (1898–1976) was instrumental in transforming the fields of metallurgy and materials science and engineering into the fields we know today. "His contributions were at several levels: partly in the research he himself did, partly in his effective advocacy of a more fundamental approach to materials, and partly in his establishment of a new concept for a curriculum for the education of metallurgists," said C.S. Smith and W.W. Mullins in *Biographical Memoirs* from the National Academy of Sciences. He spent much of his career as professor of metallurgy, director of the Materials Research Laboratory, and head of the Department of Metallurgical Engineering at Carnegie Institute of Technology (CIT; now Carnegie Mellon University). Prior to his time at CIT, Mehl served as the first head of the Division of Physical Metallurgy at the then-recently established U.S. Naval Research Laboratory.

As a member of AIME, Mehl received the AIME Champion H. Matthewson Award in 1934, 1939, and 1944; the 1936 IOM Lecture Award; and the 1945 AIME James Douglas Gold Medal. In 1963, Mehl was selected as a member of the first class of what is now the TMS Fellows. He also played an important role in establishing Brazilian Metallurgical Society (now Associação Brasileira de Metalurgia, Materiais e Mineração, ABM) during a year spent at the Universidade de São Paulo. For the 70th anniversary of ABM in 2014, the Robert Mehl Symposium was held during the TMS-ABM Pan-American Materials Conference to recognize Mehl's influence on the evolution of materials science and engineering throughout the world.



Robert Franklin Mehl  
(Photo credit: David Rasel)

## WPI Honors Diran Apelian

TMS congratulates Diran Apelian on receiving the Worcester Polytechnic Institute (WPI) 2018 Innovator of the Year Award. Apelian, the Alcoa-Howmet Professor of Mechanical Engineering at WPI, is the first WPI faculty member to receive the award since its establishment in 2011. According to WPI, Apelian was awarded the honor “for his innovative work in metal processing and for his leadership as a researchers and educator.” As a part of the award presentation, Apelian gave an address at WPI in November 2018.

A TMS member since 1976, Apelian’s technical home within the Society is the Light Metals Division (LMD), where he has been a member of the Aluminum Committee and received the 2005 LMD Technology Award. He also served on the Continuing Education, Education and Professional Affairs, and Solidification Committees, among others, and was the 1999–2002 Public & Governmental Affairs Director and 2008 TMS President. Throughout his membership, he has received the 2004 TMS/ASM Joint Distinguished Lecturer in Materials and Society Award, 2006 Bruce Chalmers Award, and 2006 Fellow Award. He was a co-editor of the *Journal of Sustainable Metallurgy* from its establishment in 2015 to 2017.

Apelian has also earned many accolades outside of TMS, including: the 1992 American Institute of Mining, Metallurgical and Petroleum Engineers (AIME) Champion H. Matthewson Award; 2007 Acta Materialia Hollomon Materials & Society Award; 2006 Brimacombe Prize; 2009

member of the National Academy of Engineering; 2005 Joan Hodges Queneau Palladium Medal from the Audubon Society; and 2017 Fellow of the National Academy of Inventors. He is also a Fellow of ASM International and the American Powder Metallurgy Institute (APMI) International.

His work on materials processing, aluminum alloys, metal casting, and recycling, particularly the industrial applications, has led to nearly 700 publications, 15 books, and 21 patents throughout his career. After earning his B.S. in metallurgical engineering from Drexel University and Sc.D. in materials science from the Massachusetts Institute of Technology, Apelian worked at the Homer Research Laboratories of Bethlehem Steel for several years. He then returned to Drexel in 1976 in a variety of faculty positions and, later, as vice provost. In 1990 he joined WPI, serving as provost of the university until 1996 when he founded WPI’s Metal Processing Institute (MPI), an industry-university alliance for advancing materials science. In 2010, with the sponsorship of the National Science Foundation, he co-founded the Center for Resource, Recovery and Recycling (CR<sup>3</sup>), the first center dedicated to materials recycling in the United States.



Diran Apelian (Photo courtesy of WPI.)

## TMS Welcomes New Members

The TMS Board of Directors approved professional membership for the following individuals at its December 2018 meeting. In compliance with the European Union’s (EU) General Data Protection Rule (GDPR), we have not listed EU members who have not yet opted in to TMS communications. If you wish to receive communications from TMS, log in to [tms.org](http://tms.org) and select My Account, then scroll down to My Details, and click on the Communication Preferences tab to select “Yes, I agree to receive communications from TMS.”

**Please join us in congratulating and welcoming the following individuals to all the privileges and benefits of TMS membership.**

Abdul Jabbar, Md Hussain; Nissan  
Technical Center North America,  
United States

Aifantis, Katerina E.; United States

Akia, Mandana; University of New Mexico,  
United States

Almeshari, Abdulaziz; SABIC, Saudi Arabia

Al-Sahli, Abdulmohsin; SABIC, Saudi Arabia

Arora, Gaurav; University of Wyoming,  
United States

Aylmore, Mark G.; Curtin University,  
Australia

Bae, Chang-Jun; Korea Institute of Materials  
Science, South Korea

Baker, Charles; Lumiant Corporation,  
United States

Beach, Elvin; Worthington Industries Inc.,  
United States

Bechetti, Daniel H.; Naval Surface  
Warfare Center, United States

Benzio, Matt; FMP, United States



Bowers, Matthew L.; Exponent Inc., United States	Gandha, Kinjal; Ames Laboratory, United States	Kim, Eoksoo; Korea Institute of Industrial Technology, South Korea
Cao, Ye; University of Texas at Arlington, United States	Garich, Holly; Faraday Technology Inc., United States	Kim, Se-Jong; Korea Institute of Materials Science, South Korea
Caris, Joshua; Terves LLC, United States	Geerlings, Henry; CoorsTek, United States	Kim, Paul; Rutgers University, United States
Cha, Byungchul; Korea Institute of Industrial Technology, South Korea	Gerlt, Austin; UES Inc. (AFRL/RXCM), United States	Kim, Hoonsik; Apple Inc., United States
Cheekatamarla, Praveen; Atrex Energy Inc., United States	Ghose, Sanjit; Brookhaven National Laboratory, United States	Klassen, Robert J.; University of Western Ontario, Canada
Chen, Xuehui; Central Iron and Steel Research Institute, China	Gnaupel-Herold, Thomas; National Institute of Standards and Technology, United States	Kosiba, Graham; United States
Cheng, Yang-Tse; University of Kentucky, United States	Goel, Kishan L.; Naval Air Systems Command, United States	Krause, David; Signicast, United States
Cheon, Jooyong; South Korea	Guo, Jianzheng; ESI US R&D, United States	Kumar, Sampath; Indian Institute of Technology Madras, India
Chevrier, Vincent; 3M Center, United States	Han, Yanfeng; Shanghai Jiao Tong University, China	Kumar, Nitish; University of New South Wales Sydney, Australia
Choi, Inchul; Korea Institute of Industrial Technology, South Korea	Hatta, Hidenori; United States	Lai, Chien-Lin; China Steel Corporation, Taiwan
Chou, Ryan; UTC Aerospace Systems, United States	Hegadekatte, Vishwanath; Novelis Inc., United States	Lee, Kwang Seok; Korea Institute of Materials Science, South Korea
Chung, Ed; Amphenol Canada, Canada	Heiden, Michael; Sandia National Laboratories, United States	Li, Ruozhou; China
Coughlan, Aisling; United States	Herbert, Erik G.; Michigan Technological University, United States	Li, Xiaochun; University of California, Los Angeles, United States
Crawford, Folly; Center for Advanced Vehicular Systems, United States	Hopkins, Taylor; AB Carter Inc., United States	Li, Xiao; Pacific Northwest National Laboratory, United States
Cunningham, Ross; Owens Corning, United States	Hu, Zhongqiang; Xi'an Jiaotong University, China	Lim, Peck; SLM Solutions NA, United States
Cyr, Edward; Marine Additive Manufacturing Centre of Excellence, University of New Brunswick, Canada	Ibrahim, Hamdy; University of Tennessee Chattanooga, United States	Lindamood, Lindsey; EWI, United States
Daniels, Thomas W.; Moog Inc., United States	Ishimaru, Manabu; Kyushu Institute of Technology, Japan	Linyou, Cao; North Carolina State University, United States
Daughton, David R.; Lake Shore Cryotronics, United States	Jalalahmadi, Behrooz; Sentient Science, United States	Liu, Jingfu; Sentient Science, United States
Davidson, M. Joseph; National Institute of Technology Warangal, India	Jewell, Daniel; Commonwealth Scientific and Industrial Research Organisation, Australia	Liu, Su; ArcelorMittal, United States
Dickens, Tarik; FAMU-FSU College of Engineering, United States	Ji, Changwook; Korea Institute of Industrial Technology, South Korea	Liu, Bert; Air Force Institute of Technology, United States
Doddrill, Brad; Lake Shore Cryotronics, United States	Jo, Ilguk; Korea Institute of Materials Science, South Korea	Lolla, Tapasvi; Electric Power Research Institute Inc., United States
Dupel, Pascal; Vesuvius Research, United States	Jun, Hyun Jo; ExxonMobil Research and Engineering, United States	Lu, Pin; Questek Innovations LLC, United States
Eftekhari, Ali; Apple Inc., United States	Kappagantula, Keerti S.; Ohio University, United States	Luo, Xiaobing; Central Iron and Steel Research Institute, China
Espinoza, Christian; Hyperion Materials and Technologies, United States	Karaca, Haluk E.; United States	Lynch, Kenneth; Boeing, United States
Fu, Ming; GE Aviation, United States	Katsarelis, Colton C.; United States	M. Adinarayanapp, Somashekara; Ames Laboratory, United States
Gaikwad, Vijay Trambak; Bharat Forge Ltd., India	Khan, Abdul Khader; Ansys Inc., United States	Mahlon, Christina; United States
Gallaher, Jack W.; Bechtel Marine Propulsion Corp., United States		Mcnamara, Cameron; HC Starck, United States
		Meaige, Ben; Honda R&D Americas Inc., United States
		Mickelson, Larry; Alcoa, United States

Mitchell, Brandon; Naval Air Systems Command, United States	Rosprim, Mary; NanoSteel Company Inc., United States	Van Ende, Marie-Aline; Seoul National University, South Korea
Monson, Todd C.; United States	Ross, Richard; 3M, United States	Venkateswaran, Natarajan; Reliance Industries Limited, India
Muhlstein, Christopher L.; Georgia Institute of Technology, United States	Ryou, Heonjune; U.S. Naval Research Laboratory, United States	Vijapur, Santosh; Faraday Technology Inc., United States
Muto, Yuki; JX Nippon Mining and Metals Corporation, Japan	Saha, Partha; National Institute of Technology, India	Wan, Li; Seagate Technology, United States
Nassar, Abdalla R.; Pennsylvania State University Applied Research Laboratory, United States	Salamanca-Riba, Lourdes G.; University of Maryland, United States	Wang, Xiaoqiang; CEPREI, China
Nicholas, Jason; Michigan State University, United States	Santoyo, Rolando Herrera; Mexico	Wang, Dan; Faraday Technology Inc., United States
Ohara, Brandon; Nice America Research Inc., United States	Schaffoener, Stefan; University of Connecticut, United States	Wang, Chao; Pacific Northwest National Laboratory, United States
O'Hara, Ryan; Air Force Institute of Technology, United States	Sen, Fatih G.; Novelis, United States	Wang, Zhiguang; Xian Jiaotong University, China
Ollagnon, Zoe; United States	Shaikh, Shadab; Vesuvius USA, United States	Webb, Sydnee; Lincoln Electric, United States
Panahi, Damon; ArcelorMittal Global R&D - East Chicago, United States	Sharma, Prithu; Apple Inc., United States	Weiland, Hasso; Scandium International, United States
Pang, Xin; CanmetMATERIALS - Natural Resources Canada, Canada	Shin, Yung; Purdue University, United States	Wenninger, Dustin J.; Kohler Co., United States
Pedraza, Juan Pablo; Ternium Mexico S.A. de C.V., Mexico	ShIPLEY, Andrew J.; EWI, United States	Wilthan, Boris; National Institute of Standards and Technology, United States
Peles, Amra; United States	Shyu, Terry; Apple Inc., United States	Wu, Hui; National Institute of Standards and Technology, United States
Perez, Airan J.; Office of Naval Research, United States	Sims, Christopher; National Institute of Standards and Technology, United States	Xu, Jing; Faraday Technology Inc., United States
Pierce, Dean; Oak Ridge National Laboratory, United States	Skolrood, Lydia N.; Oak Ridge National Laboratory, United States	Xue, Sichuang; Purdue University, United States
Pietrucha, Matthew; Cameca Instruments Inc., United States	Smith, Laverne; Clarkson Aerospace Corp., United States	Yang, Caifu; Central Iron and Steel Research Institute, China
Pisarski, Pawel; Lumiant Corporation, Canada	Snider, Matthew; Fuel Cell Energy, United States	Yang, James; United States
Poulton, Jason; Akron Rubber Development Laboratory Inc., United States	Somasundaram, John; Big River Steel, United States	Yoshida, Kazunari; Japan
Powell, Robert; Atlas Pressed Metals, United States	Song, Xueyan; West Virginia University, United States	Young, Charles J.; United States
Prabhu, Nithyanand; Indian Institute of Technology Bombay, India	Song, Eun-Ju; Sandia National Laboratories, United States	Yu, Haibo; Honeywell UOP, United States
Radhakrishnan, Rajeswaran; Faraday Technology Inc., United States	Song, Rongjie; ArcelorMittal, United States	Zepeda-Alarcon, Eloisa; Los Alamos National Laboratory, United States
Raj, Sai V.; NASA Glenn Research Center, United States	Stevenson, Bruce D.; Global Advanced Metals, United States	Zhang, Zheng; Institute of Materials Research and Engineering, Singapore
Rakers, Nicole; PPG Industries, United States	Stone, Donald S.; United States	Zhang, Duyao; Royal Melbourne Institute of Technology, Australia
Ramanuj, Vimal; Oak Ridge National Laboratory, United States	Stull, Jamie A.; Los Alamos National Laboratory, United States	Zhi, Yue; CEPREI, China
Raplee, Jacob; Arconic, United States	Su, Liangbi; China	Zhu, Lilong; University of Florida, United States
Riddle, Matthew; United States	Taheri-Mousavi, S. Mohadeseh; Massachusetts Institute of Technology, United States	Zhu, Xiankui; EWI - Structural Integrity, United States
Roberts, Scott A.; Sandia National Laboratories, United States	Tashkandi, Mohammed A.; Northern Border University, Saudi Arabia	Zou, Min; University of Arkansas, United States
	Tate, Stephen; Electric Power Research Institute, United States	
	Thacker, Karen; Boeing, United States	
	Truninger, Abbey; United States	