



TMS-AIME AWARDS CEREMONY

Wednesday, March 17, 2021
Virtual Event

TONIGHT'S HOSTS:

Thomas Battle
Extractive Metallurgy
Consultant
2020 TMS President

George T. "Rusty" Gray, III
Los Alamos National
Laboratory
Acta Materialia Chair &
Treasurer

Ellen Cerreta
Los Alamos National
Laboratory
2021 TMS President

Brian Thomas
Colorado School of Mines
Brimacombe Prize
Committee

George Luxbacher
National Institute for
Occupational Safety
and Health
2020 AIME President

Garry Warren
University of Alabama
TMS Foundation Board of
Trustees Chair

TMS

The Minerals, Metals & Materials Society



TMS
FOUNDATION

TONIGHT'S RECIPIENTS

AIME Henry DeWitt Smith Scholarship

Funded by AIME (American Institute of Mining, Metallurgical, and Petroleum Engineers), two \$2,000 scholarships are available to graduate students majoring in the field of minerals, metals, and/or materials engineering. Issued under the TMS Foundation.



Faith Gantz
University of North
Texas



Yang Shen
Northeastern
University

AIME Robert Lansing Hardy Award

This award recognizes a young person in the broad fields of metallurgy and materials science for exceptional promise of a successful career. Issued under the TMS Foundation.



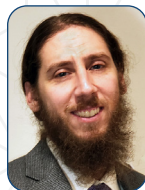
Bryce Meredig
Citrine Informatics

AIME Champion H. Mathewson Award

This award began in 1934 and recognizes a paper, or series of closely related papers with at least one common author, which represents the most notable contribution to metallurgical science in the award period.

Topic area: Mechanical Behavior

"Dynamic Strain Aging Phenomena and Tensile Response of Medium-Mn TRIP Steel," *Metallurgical and Materials Transactions A*, April 2018



Daniel M. Field
U.S. Army Combat
Capabilities Command
Army Research
Laboratory



David C. Van Aken
Missouri University
of Science and
Technology

Topic area: Materials Processing

"Early Stages of Microstructure and Texture Evolution during Beta Annealing of Ti-6Al-4V," *Metallurgical and Materials Transactions A*, March 2018
(see next page for recipients)

TONIGHT'S RECIPIENTS



Adam L. Pilchak
US Air Force Research
Laboratory



S. Lee Semiatin
US Air Force Research
Laboratory



Gordon A. Sargent
University of Dayton/
Gordon A. Sargent
Consulting

TMS/SME/AIME James Douglas Gold Medal

Established in 1922, this award recognizes distinguished achievement in nonferrous metallurgy, including both the beneficiation of ores and the alloying and utilization of nonferrous metals. James Douglas, founder of Phelps Dodge Corporation and twice President of AIME, was an industrialist, a mining engineer, a metallurgical engineer, and a noted inventor of metallurgical equipment.



Maurits Van Camp
Umicore

AIME Honorary Membership Award

AIME Honorary Membership is one of the highest honors that the Institute can bestow on an individual. This award, established in 1872, recognizes outstanding service or distinguished scientific or engineering achievement in the fields embracing the activities of AIME and its Member Societies.



David McDowell
Georgia Institute of
Technology



Dan Thoma
University of
Wisconsin-Madison

Acta Materialia Undergraduate Scholarship

Two \$5,000 scholarships are available to undergraduate students majoring in metallurgical engineering, materials science and engineering, or to undergraduate students with a significant interest in the materials area. This scholarship is supported by the generosity of Acta Materialia, Inc. and issued under the TMS Foundation.

TONIGHT'S RECIPIENTS



Nicholas D'Attilio
South Dakota School
of Mines & Technology



Baily Syring
University of
Wisconsin Madison

Acta Materialia Mary Fortune Global Diversity Award

The award recognizes one or more of the following in the field of Materials Science and Engineering.

- Promotion of, or representation of, women and other under-represented groups in the materials science and engineering field;
- Contributions to the field of materials science and engineering, including teaching, professional service or research;
- Demonstrated commitment to mentoring students and young professionals;
- Promotion of materials science and related professional activities in the broader community.



Katalin Balázsi
Hungarian Academy of
Sciences

Acta Materialia Hollomon Award for Materials & Society

This is an international award presented by Acta Materialia, Inc. in memory of J. Herbert Hollomon, principal instigator of the journal *Acta Metallurgica*. This award recognizes an outstanding contributor to the interactions between materials technology and societal concerns.



Qingjie Zhang
Wuhan University of
Technology

Acta Materialia Silver Medal Award

This award honors and recognizes scientific contributions and leadership from academic, industry, and public sector leaders in the midst of their careers. The Silver Medal is established to recognize significant research contributions that are recent and timely.



Julie Cairney
University of Sydney

Acta Materialia Gold Medal Award

This award was established by Acta Materialia, Inc. in 1973 as an international award to recognize leadership in materials research.



Guenter Gottstein
RWTH Aachen
University

The Brimacombe Prize

This prize recognizes outstanding achievements in materials process engineering and is presented in memory of J. Keith Brimacombe, an innovative giant in the field of materials process engineering during the later quarter of the 20th century. The Brimacombe Prize was designed to do more than merely honor; it is intended that this award speak symbolically of the achievements of its recipients while perpetuating the attributes that Brimacombe set as standards for his own character and career.



Philippe Jarry
Constellium C-TEC

TMS Best Student Paper

Student members of Material Advantage are encouraged to submit essays on global or national issues, as well as technical research papers, relating to any field of metallurgy or materials science. This award is funded through the TMS Foundation.

*Undergraduate First Place –
"Thermodynamics and Kinetics of
MAPbI₃ Perovskite Processing"*



Lily Turaski*
Georgia Institute of
Technology

*Graduate First Place – "Lattice-
Distortion-Enhanced Yield Strength
in a Refractory High-entropy Alloy"*



Chanho Lee
The University of
Tennessee, Knoxville

*Graduate Second Place – "He Ion
Irradiation Response of a Gradient
T91 Steel"*



Zhongxia Shang
Purdue University

TONIGHT'S RECIPIENTS

Kaufman CALPHAD Scholarship

Supported by CALPHAD Inc. and the TMS Foundation, one \$1,000 scholarship is made to an undergraduate student majoring in metallurgical engineering, materials science and engineering, or minerals processing/extraction programs. The scholarship was established to recognize the memory of Larry Kaufman for his contributions to computational thermodynamics and its applications. This award is funded through the TMS Foundation.



Hrushikesh Sahasrabudhe
Indian Institute of
Technology Bombay

Young Innovator in the Materials Science of Additive Manufacturing Award

Recognizes an outstanding early career individual who is performing innovative research in the area of the materials science of additive manufacturing. The innovation presented should lead to advancements in this field.



Michael Kirka
Oak Ridge National
Laboratory

Frontiers of Materials Award

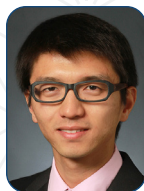
This award is given competitively to a top-performing early career professional capable of organizing a Frontiers of Materials Event comprising a hot or emergent technical topic. The recipient will organize an event in the form of a full symposium or single-session symposium.



Deep Jariwala
University of
Pennsylvania



Jessika Rojas-Marin
Virginia
Commonwealth
University



Huanyu (Larry) Cheng
Pennsylvania State
University

Young Leaders International Scholar Award

The Japan Institute of Metals and Materials (JIM) and the Federation of European Materials Societies (FEMS) established joint Young Leaders International Scholar Programs with TMS to promote young member activities and strengthen the collaborations between TMS and these two international societies. These collaborations have resulted in exchange programs, which offer select young members the opportunity to present papers at international sessions. This award is funded through the TMS Foundation.

TMS/JIM Young Leaders International Scholar



Stoichko Antonov
Max Planck Institut für
Eisenforschung GmbH

TMS/FEMS Young Leaders International Scholar



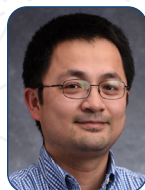
Janelle Wharry
Purdue University

Early Career Faculty Fellow Award

This award recognizes an assistant professor for his or her accomplishments that have advanced the academic institution where employed, and for abilities to broaden the technological profile of TMS. This award is funded through the TMS Foundation.



James Pikul
University of
Pennsylvania



Wei Xiong
University of
Pittsburgh

TONIGHT'S RECIPIENTS

Ellen Swallow Richard Diversity Award

This award recognizes an individual, who in the remarkable pioneering spirit of Ellen Swallow Richards, has helped or inspired others to overcome personal, professional, educational, cultural, or institutional adversity to pursue a career in minerals, metals, and/or materials. Recipients are awarded through the TMS Foundation.



Mary Juhas
The Ohio State University

Frank Crossley Diversity Award

The award recognizes an individual who has personally overcome personal, professional, educational, cultural, or institutional adversity to pursue a career in minerals, metals, and/or materials. Recipients are awarded through the TMS Foundation.



T. Ben Britton
Imperial College London/University of British Columbia

Brimacombe Medalist – Class of 2021

This mid-career award recognizes members with sustained excellence and achievement in business, technology, education, public policy, or science related to materials science and engineering, and a record of continuing service to the profession. The intent is to recognize professionals in the middle portion of their career.



Jamie Kruzic
University of New South Wales



Lei Lu
Institute of Metal Research, Chinese Academy of Sciences



Michele Manuel
University of Florida



Suveen Mathaudhu
University of California, Riverside



Federico Rosei
INRS Centre for
Energy, Materials and
Telecommunications



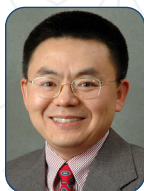
Mitra Taheri
Johns Hopkins
University



Guihua Yu
University of Texas at
Austin

William Hume-Rothery Award

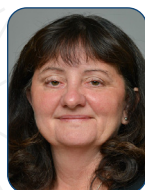
This award recognizes a scientific leader for exceptional scholarly contributions to the science of alloys by inviting him/her to be an honored presenter at the William Hume-Rothery Memorial Symposium. The awardee participates with the Alloy Phase Committee in organizing this symposium held in conjunction with the TMS Annual Meeting.



Ji-Cheng "JC" Zhao
University of Maryland

Institute of Metals/Robert Franklin Mehl Award

This 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.



Tresa Pollock
University of California,
Santa Barbara

Leadership Award

This award recognizes exceptional leadership in the fields of metallurgy and materials as a representative of an industrial, academic, governmental, or technical organization.



Marc Meyers
University of California,
San Diego

TONIGHT'S RECIPIENTS

Research to Industrial Practice Award

This award recognizes an individual who has demonstrated outstanding achievement in transferring research results or findings in some aspect of the fields of metallurgy and materials into commercial production and practical use as a representative of an industrial, academic, governmental, or technical organization.



Kazuhiro Nogita
University of
Queensland

Alexander Scott Distinguished Service Award

This award recognizes a member's outstanding contributions to TMS. This award is typically presented for 10 or more years of TMS service in one or more of the following areas: membership development, student chapters, education and professional affairs, or other society-level activities.



Stanley Howard
South Dakota
School of Mines and
Technology

Bruce Chalmers Award

This award recognizes an individual who has made outstanding contributions to the science and/or technology of materials processing.



Alan Luo
Ohio State University

Cyril Stanley Smith Award

This award recognizes an individual who has made outstanding contributions to the science and/or technology of materials structure.



Amit Misra
University of Michigan

Julia & Johannes Weertman Educator Award

This award recognizes an individual who has made outstanding contributions to education in metallurgical engineering and/or materials science and engineering. The Weertmans rose to prominence in materials science and engineering through their pioneering research accomplishments which have profound effects on technology. This award is funded through the TMS Foundation.



Katsuyo Thornton
University of Michigan

Oleg D. Sherby Award

This award recognizes an individual, or small group of collaborators, who has made significant contributions to the understanding of the behavior of materials at high temperatures. The award is funded through the TMS Foundation.



Jeffery Gibeling
University of California,
Davis

William D. Nix Award

This award is established to honor William D. Nix and the tremendous legacy that he has developed and shared with the minerals, metals, and materials community, and to highlight and promote continued progress and innovation relevant to research into the underlying mechanisms and mechanical behavior of macro-, micro-, and nanoscale materials. The award is funded through the TMS Foundation.



George Pharr*
Texas A&M University

TONIGHT'S RECIPIENTS

TMS Fellow – Class of 2021

This award recognizes members of TMS who are qualified for elevation to the Class of Fellow by reason of outstanding contributions to the practice of metallurgy, materials science, and technology. To be inducted, the TMS member must have a good personal reputation and distinction as an eminent authority in some aspect of the practice of metallurgy, materials science, and technology.



Dipankar Banerjee
Indian Institute of Science



Raymond Decker
NanoMag LLC



David DeYoung*
Alcoa



Fiona Doyle
University of California



Somnath Ghosh
Johns Hopkins University



Hani Henein
University of Alberta



Donald Sadoway
Massachusetts Institute of Technology



Julie Schoenung
University of California, Irvine

RECIPIENTS PREVIOUSLY AWARDED

Extraction & Processing Division (EPD)

EPD Distinguished Lecturer Award

Rodney Jones
Mintek

EPD Distinguished Service Award

Andreas Siegmund
LanMetCon LLC

EPD Science Award

"Microstructure Evolution During Controlled Solidification of 'Fe₂O₃'-CaO-SiO₂ Liquids in Air," *Metallurgical and Materials Transactions B*, December 2019

Stuart Nicol
Gopher Resource/University of Queensland

Evgueni Jak and Peter Hayes
University of Queensland

EPD Technology Award

"Thermal Upgrading of Nickeliferous Pyrrhotite Tailings for the Recovery of Nickel in the Form of Ferronickel Alloy," *Metallurgical and Materials Transactions B*, October 2019

Dawei Yu
Central South University

Feng Liu and Mansoor Barati
University of Toronto

Jiajing Zhang
Capitech Venture Capital Co, LTD

EPD Pyrometallurgy Best Paper Award

"Mechanisms and Kinetics of Reduction of Solid NiO in CO/CO₂ and CO/Ar Gas Mixtures," *Metallurgical and Materials Transactions B*, December 2019

Jiang Chen
Australian National University

Peter Hayes
University Of Queensland

EPD/LMD Journal of Sustainable Metallurgy Best Paper Award

"Stabilization of Stainless Steel Slag via Air Granulation," *Journal of Sustainable Metallurgy*, February 2019

Mikael Lindvall
SSAB AB

Lily Lai Chi So, Mahdi Mahdi, Janice Bolen, Isabelle Nolet, and Darryl Metcalfe
Hatch Ltd

Johannes Nell
Tronox

Sina Mostaghel
SNC-Lavalin

Olle Sundqvist
AB Sandvik Materials Technology

RECIPIENTS PREVIOUSLY AWARDED

EPD Materials Characterization Best Paper Award - First Place

"Effect of Microstructure on Cleavage Fracture of Thick Section Quenched and Tempered S690 High Strength Steel," *Characterization of Minerals, Metals, and Materials 2020*

Virginia Bertolo, Quanxin Jiang, and Vera Popovich
Delft University of Technology

Carey Walters
Structural Dynamics, TNO

EPD Materials Characterization Best Paper Award - Second Place

"Influence on the Structural and Magnetic Properties of the Pre-alloyed Gas-atomized Maraging Steel Powder During Mechanical Milling," *Characterization of Minerals, Metals, and Materials 2020*

Ganesh Varma Thotakura and Tanjore Jayaraman
University of Michigan Dearborn

Ramasis Goswami
Naval Research Laboratory

EPD Materials Characterization Best Poster Award - First Place

"Observation of Topological Defects in Synthetic Antiferromagnets with Inverted Dzyaloshinskii-moriya Interaction"

Nisrit Pandey, Maxwell Li, Marc de Graef, and Vincent Sokalski
Carnegie Mellon University

EPD Materials Characterization Best Poster Award - Second Place

"High Strain Rate Nanoindentation of Single Crystalline Metals"

Wesley Higgins and George Pharr
Texas A&M University

EPD Materials Characterization Best Poster Award - Third Place

"Wettability of Liquid Phase Caesium Compounds Against Metal Oxides Including UO₂ and ThO"

Hiroto Ishii
Tokyo Electric Power Company Holdings, Inc.

Yuji Ohishi and Hiroaki Muta
Osaka University

Masayoshi Uno
University of Fukui

Ken Kurosaki
Kyoto University

Functional Materials Division (FMD)

FMD Distinguished Scientist/ Engineer Award

Michael E. Manley
Oak Ridge National Laboratory

FMD John Bardeen Award

James R. Chelikowsky
University of Texas at Austin

RECIPIENTS PREVIOUSLY AWARDED

FMD JEM Best Paper Award

"Characterization of Epitaxial b-(Al,Ga,In)2O3-Based Films and Applications as UV Photodetectors," *JEM*, November 2020

Luke A. M. Lyle, Lisa M. Porter, and Robert F. Davis
Carnegie Mellon University

Serdal Okur
Structured Materials Industries, Inc

Venkata S. N. Chava, Mathew L. Kelley, M.V.S. Chandrashekhar, and Andrew B. Greytak
University of South Carolina

Gary S. Tompa
Structured Materials Industries, Inc

Light Metals Division (LMD)

LMD Distinguished Service Award

Alan Luo
Ohio State University

LMD Technology Award

Norbert Hort
Helmholtz-Zentrum Geesthacht

LMD JOM Best Paper Award

"Effect of Fe Intermetallics on Microstructure and Properties of Al-7Si Alloys," *JOM*, December 2019

James Mathew, Guillaume Remy, Mark A. Williams, Fengzai Tang, and Prakash Srirangam
Warwick Manufacturing Group,
University of Warwick

LMD Magnesium Technology Best Paper Award - Application

"Variation of extrusion process parameter for the Magnesium Alloy ME21," *Magnesium Technology 2020*

Gerrit Kurz, Maria Nienaber, Jan Bohlen, Dietmar Letzig, and Karl-Ulrich Kainer
Helmholtz-Zentrum Geesthacht

LMD Magnesium Technology Best Paper Award - Fundamental Research

"Development of Ultra Lightweight, Corrosion Resistant Mg Alloys," *Magnesium Technology 2020*

Taylor Cain and Joseph P. Labukas
US Army Research Laboratory

LMD Magnesium Technology Award - Student Paper

"The Independent Effects of Cooling Rate and Na Addition on Hydrogen Storage Properties in Hypo-Eutectic Mg Alloys," *Magnesium Technology 2020*

Manijn Kim, Yahia Ali, Stuard D. McDonald, and Kazuhiro Nogita
University of Queensland

Trevor B. Abbott
RMIT University

RECIPIENTS PREVIOUSLY AWARDED

LMD Magnesium Technology Award - Best Poster

"Quantifying Dislocation Behaviour
in Mg Using a Phase Field
Dislocation Dynamics Model
Multiple Active Slip Planes"

**Claire Weaver-Albrecht, Shuozhi
Xu, and Irene Beyerlein**
University of California, Santa
Barbara

Abigail Hunter
Los Alamos National Laboratory

Anil Kumar
airisData

Light Metals Award

"Bayer Process Towards
the Circular Economy – Soil
Conditioners from Bauxite
Residue," *Light Metals 2020*

**Adriano Lucheta, Roseanne Barata
Holanda, Patricia Magalhães
Pereira Silva, Andre Luiz Vilaça do
Carmo, and Alice Ferreira Cardoso**
SENAI Innovation Institute for
Mineral Technology

**Raphael Vieira da Costa, Caio
César Amorim de Melo, and
Marcelo Montini**
Norsk Hydro Brasil

Light Metals Subject Award - Aluminum Reduction Technology

"Anodic Incident Detection
Through Multivariate Monitoring of
Individual Anode Current Signals,"
Light Metals 2020

David LaJambe and Jayson Tessier
Alcoa

Eric Poulin and Carl Duchesne
Laval University

Light Metals Subject Award - Electrode Technology for Aluminum Production

"Anhydrous Carbon Pellets – An
Engineered CPC Raw Material,"
Light Metals 2020

Les Edwards and Maia Hunt
Rain Carbon Inc.

Christopher Kuhnt
Rain Carbon Germany GmbH

Light Metals Subject Award - Warren Peterson Cast Shop for Aluminum Production

"Evaluation of the Effect of CO₂
Cover Gas on the Rate of Oxidation
of an AlMgSi Alloy," *Light Metals
2020*

**Cathrine Kyung Won Solem, Kai
Erik Ekstroem, Gabriella Tranell,
and Ragnhild Aune**
Norwegian University of Science
and Technology

RECIPIENTS PREVIOUSLY AWARDED

Light Metals Subject Award - Aluminum Alloys

"Effects of Mn and Mo Micro-additions on Al-Zr-Sc-Er-Si Mechanical Properties," *Light Metals 2020*

Shipeng Shu, David Seidman, and David Dunand
Northwestern University

Anthony De Luca
EMPA - Swiss Federal Laboratories for Materials Science and Technology

LMD/EPD Energy Best Paper Award - Professional

"Simulation of Process and Reactor Structure Optimization for CeO₂ Preparation from Jet-Flow Pyrolysis," *JOM*, May 2019

Chao Lv, Ting-an Zhang, Zhihe Dou, and Qiuyue Zhao
Northeastern University

"Prediction of Continuous Cooling Transformation Diagrams for Ni-Cr-Mo Welding Steels via Machine Learning Approaches," *JOM*, February 2020

Xiaoxiao Geng and Hao Wang
University of Science and Technology Beijing

Asad Ullah
Karakoram International University Gilgit

Weihua Xue
Liaoning Technical University

Song Xiang
Guizhou University

Li Meng
Central Iron and Steel Research Institute

Guang Ma
Global Energy Interconnection Research Institute Co., Ltd

LMD/EPD Energy Best Paper Award- Student

"Investigation of Performance Enhancements for Air Brayton/ORC Combined Cycles for Small (~2 MWe) Power Systems and a Moderate Heat Source Temperature," *JOM*, May 2019

Joseph Litrel
Electric Boat

Donna Post Guillen
Idaho National Laboratory

Michael McKellar
University of Idaho

"Integrated Sensor Network and Battery Management System for State of Health Estimation and Safety Control of Lithium-ion Batteries"

Bing Li

Vikas Tomar and Vilas Pol
Purdue University

Thomas Adams
Naval Surface Warfare Center

Corey Love
U.S. Naval Research Laboratory

RECIPIENTS PREVIOUSLY AWARDED

Materials Processing & Manufacturing Division (MPMD)

MPMD Distinguished Service Award

James C. Foley
Los Alamos National Laboratory

MPMD Distinguished Scientist/Engineer Award

Eugene A. Olevsky
San Diego State University

MPMD ICME Industry Implementation Award

United States Automotive Materials Partnership LLC
c/o Louis Hector, Jr.

Structural Materials Division (SMD)

SMD Distinguished Scientist/Engineer Award

Kevin Hemker
Johns Hopkins University

SMD Distinguished Service Award

Eric Huron
GE Aviation

SMD JOM Best Paper Award

"An Expanded Martensite Variant Selection Theory Accounting for Transformation Rotations and Applied Stress Fields: Predictions of Variant Clusters in Titanium,"
JOM, October 2020

Zachary D. Brunson
Colorado School of Mines

Adam L. Pilchak and Eric J. Payton
US Air Force Research Laboratory

Satish Rao
Ues Inc.

Aaron P. Stebner
Georgia Institute of Technology

Young Leaders Awards

EPD Young Leaders Professional Development

Alexandra Anderson*
Gopher Resource

Joseph Hamuyuni*
Outotec

FMD Young Leaders Professional Development

Yong Lin Kong*
University of Utah

Michael Cai Wang*
University of South Florida

RECIPIENTS PREVIOUSLY AWARDED

LMD Young Leaders Professional Development

Richard Otis*
NASA Jet Propulsion Laboratory

Kelvin Xie*
Texas A&M

MPMD Young Leaders Professional Development

Liang Qi*
University of Michigan

Yu Zou*
University of Toronto

SMD Young Leaders Professional Development

Joy Gockel*
Wright State University

Chelsey Hargather*
New Mexico Institute of Mining and Technology

Student Scholarship Awards

FMD Gilbert Chin Scholarship

Lily Turaski
Georgia Institute of Technology

LMD Scholarship

Zachary Wolff
University of Nevada Reno

MPMD Scholarship

Alexander Goldman
University of Nevada Reno

SMD Scholarship

Jadzia Graves
University of Idaho

TMS International Symposium on Superalloys Scholarship

T.M. Kelsy Green
University of Michigan Ann Arbor

Justine Schulte
University of Virginia

RECIPIENTS PREVIOUSLY AWARDED

Acta Materialia Inc. Poster Awards

Atom Locations of Minor Dopants and Their Role in Stabilizing the Hexagonal -Cu₆Sn₅ Intermetallic Compound

Wenhui Yang

Atomistic Simulation of the Formation and Fracture of Oxide Bifilms in Cast Aluminum

Jialin Liu

Bioinspired Mechanically Active Adhesives for the Repair of Heart Bleeds

Jingjing Wu

Concentration-dependent Atomic Mobilities in FCC CoCrFeMnNi High-entropy Alloys

Daniel Gaertner

Demonstrating the Potential of Accurate Absolute Cross-grain Stress and Orientation Correlation Using Electron Backscatter Diffraction

Tijmen Vermeij

Flash Sintering of Gadolinium-doped Ceria

Tarini Prasad Mishra

Microstructural Optimization through Heat Treatment for Enhancing the Fracture Toughness and Fatigue Crack Growth Resistance of Selective Laser Melted Ti-6Al-4V Alloy

Punit Kumar

Orientation-designed Large Single-crystal Cu-Al-Mn Alloys by Abnormal Grain Growth and Their Enhanced Functional Properties

Sheng Xu

Titania Coated Mesoporous sSilica Particles for Sustainable Water Purification

Ogbogu Ikechi Kalu

Unravelling the Role of Zinc in Magnesium Corrosion at the Nanometer Scale

Martina Cihova

** This recipient has elected to receive their award during the TMS2022 Annual Meeting & Exhibition*



TMS-AIME AWARDS CEREMONY

2020–2021 TMS BOARD OF DIRECTORS

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Extractive Metallurgy Consultant

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James J. Robinson

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Materials Processing & Manufacturing Division

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National Institute of Standards & Technology

Structural Materials Division

Daniel B. Miracle

Air Force Research Laboratory



TMS FOUNDATION

The TMS Foundation is the proud sponsor of many of the awards and programs being highlighted at this evening's event and throughout the week at TMS2021 Virtual.

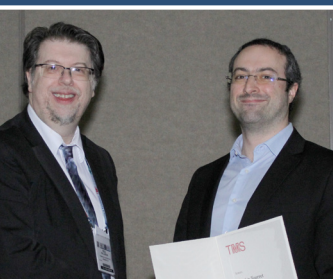
The goal of the TMS Foundation is to support students and young professionals with meaningful financial assistance and impactful career-building experiences.

You can make a difference and be a part of future success stories by making a contribution to the TMS Foundation.



"The TMS Foundation, through the Extraction & Processing Division (EPD), has afforded me many opportunities including a platform to network, learn, and exchange ideas with other researchers, for this I am profoundly grateful."

—Joseph Hamuyuni
Outotec
2021 EPD Young Leader



THANK YOU FOR YOUR GENEROUS SUPPORT.
www.TMSFoundation.org