

Introducing the 2020 Class of TMS Scholars

Ashley-Anne Bohnert

Like the TMS scholarship recipients before them, the 2020 Class of TMS Scholars represent the future of the minerals, metals, and materials professions. Support from the TMS community helps ensure their prospects remain bright. While scholarships help lighten the financial burden of education, many TMS awards also include travel support for students to attend highly regarded professional meetings. As a result, recipients get the opportunity to expand their technical knowledge, connect with potential mentors, and begin growing their professional profile.

Many of the scholarships described in this article will be awarded at the TMS 2020 Annual Meeting & Exhibition (TMS2020) during technical division functions. The awards and lecture portions of division luncheons are open to all TMS2020 attendees, so be sure to support the 2020 TMS scholarship recipients during their special moment and congratulate them in person. Other awards and scholarships will be conferred at the TMS-AIME Awards Ceremony during TMS 2020. All are invited to attend. TMS2020 will be held from February 23–27, 2020 in San Diego, California.



Katelyn Adkison (left) was awarded the 2019 Kaufman CALPHAD Scholarship.

Brooklyn Carlson (above) receives the Extraction & Processing Division Scholarship from Christina Meskers, EPD Vice Chair

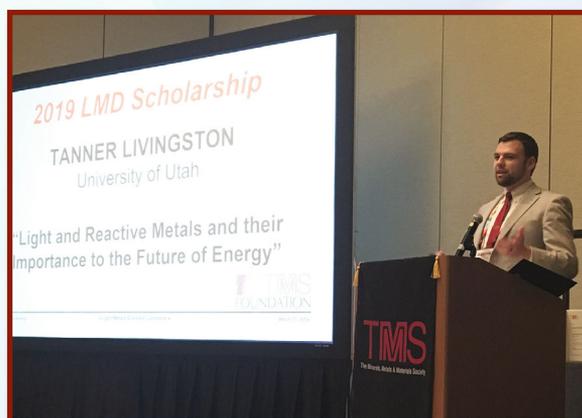
Rafael Rodriguez De Vecchis (below) accepts the 2019 Acta Materialia Inc. Undergraduate Scholarship from George "Rusty" Gray III, Acta Materialia Chair and Treasurer.



Help Support Students with the TMS Foundation's Year-End Appeal

The scholarships featured in this article not only remove barriers to education but also support students in pursuing a deeper involvement in the greater materials community that can help open doors and build careers. These awards are made possible by the TMS Foundation and its generous donors. You can be part of the good work of the TMS Foundation by contributing to the 2019 year-end appeal. Every donation from individuals just like you enables the Foundation to fulfill its mission of providing meaningful financial assistance and impactful career-building experiences to students and early career professionals.

Visit www.TMSFoundation.org/Contribute to make a one-time donation online or to set up a monthly gift. You can also make a contribution by check, made payable to the TMS Foundation and mailed to TMS, 5700 Corporate Drive Suite 750, Pittsburgh, PA 15237. For more information or to discuss a donation personally, contact TMS Foundation Staff at TMSFoundation@tms.org.



Tanner Livingston, University of Utah and 2019 Light Metals Division (LMD) Scholar, addressed the luncheon crowd with his "Light and Reactive Metals and their Importance to the Future of Energy."

TMS DIVISION AWARDS

TMS division scholarship recipients will also receive a dollar-for-dollar scholarship match through the Battelle Matching Scholarship Program. This is made possible through the generous support of Battelle and its retired chief executive officer, Jeffrey Wadsworth.

Additionally, students who receive a Battelle Matching Scholarship will be eligible for a Battelle Materials Graduate Student Award when they matriculate to a graduate school to continue studies in a materials-related field.

EXTRACTION & PROCESSING DIVISION (EPD) SCHOLARSHIP

Awarded through the EPD and the TMS Foundation to sophomore or junior undergraduate students majoring in the extracting and processing of minerals, metals, and materials.

William Carpenter *South Dakota School of Mines & Technology*

“I am very honored to receive this award from TMS and would like to extend my gratitude to the TMS scholarship committee. TMS has provided me with invaluable insight into the career paths and trends within the materials science and engineering community. In the most pragmatic way, TMS has given me the opportunity to meet experts within the metallurgical community and assisted in my career development. Through Material Advantage, I have had the opportunity to grow professionally and access scholarships to facilitate my education. I plan to pursue a Ph.D. in materials engineering focusing on novel complex alloys for energy applications.”

FUNCTIONAL MATERIALS DIVISION (FMD) GILBERT CHIN SCHOLARSHIP

Awarded through the FMD and the TMS Foundation to sophomore or junior undergraduate students studying subjects related to synthesis and process, structure, properties, and performance of electronic, photonic, magnetic, and superconducting materials, as well as materials used in packaging and interconnecting.

Thomas Colburn *Stanford University*

“Material Advantage has been transformative in my educational career by providing opportunities for me to present my research, network with fellow young scientists, and fund my academic pursuits through scholarships. For instance, I have had the chance to speak at the Materials Science & Technology 2019 conference, which has allowed me to share my research on an international stage while meeting and networking with fellow young scientists. After graduating from Stanford, I plan on pursuing a Ph.D. in chemical engineering or materials science. I am so grateful to the TMS Foundation, Battelle, and the Functional Materials Division for this honor and for helping me fulfill my educational goals.”

LIGHT METALS DIVISION (LMD) SCHOLARSHIP

Awarded through the LMD and the TMS Foundation to outstanding sophomore or junior undergraduate students majoring in metallurgical and/or materials science and engineering with an emphasis on both traditional and emerging light metals.

Samantha Schloder *University of Pittsburgh*

“Upon starting the materials science and engineering program at the University of Pittsburgh, I joined Material Advantage. Through this, I was introduced to numerous opportunities in research, internships, and scholarships. Scholarships such as this one are the reason why I succeed at school. Rather than worrying about money all the time, I can focus on my studies. Once I finish my undergraduate degree I hope to continue my education through a masters/doctorate program.”



William Carpenter



Thomas Colburn



Samantha Schloder



Natalie Wieber

MATERIALS PROCESSING & MANUFACTURING DIVISION (MPMD) SCHOLARSHIPS

Awarded through the MPMD and the TMS Foundation to sophomore or junior undergraduate students majoring in metallurgical and/or materials science and engineering, with an emphasis on manufacturing, integrating process control technology into manufacturing, and basic and applied research into key materials technologies that impact manufacturing processes.

Natalie Wieber

University of Tennessee, Knoxville

“TMS has been a key and integral part of my education and career, especially after transferring institutions to pursue a degree in material science. When I transferred, I was introduced to Material Advantage. My involvement in Material Advantage gave me the opportunity to serve as a service and social chair for my university’s chapter. My involvement also showed faculty that I am passionate about material science, eventually facilitating my internship at Oak Ridge National Laboratory. I am so grateful for these opportunities as well as the MPMD scholarship because it gives me confidence in my efforts to join the field of material science and engineering! I plan on continuing my education in a Ph.D. program beginning fall of 2020, diving more deeply into ceramic materials and renewable energy applications.”



Jadzia Graves

STRUCTURAL MATERIALS DIVISION (SMD) SCHOLARSHIPS

Awarded through the SMD and the TMS Foundation to sophomore or junior undergraduate students majoring in metallurgical and/or materials science and engineering with an emphasis on the science and engineering of load-bearing materials, including studies into the nature of a material’s physical properties based upon its microstructure and operating environment.

Jadzia Graves

University of Idaho

“Material Advantage has allowed me to connect with my peers in a way that general classes have not. Since becoming involved, I have had greater opportunities to work with other students in my field and participate in events like the TMS Bladesmithing Competition. Attending the TMS annual meeting was an amazing opportunity to learn about recent occurrences in the world of materials, and it gave me a chance to present what I have learned in my own research. After I graduate I plan to pursue structural materials for aerospace applications. The SMD scholarship will help support my education, and it is a great honor to receive it.”

Open Doors with Material Advantage

Material Advantage gives students access to technical resources, grant money, networking, and scholarships such as those highlighted in this article.

The Material Advantage student program allows undergraduate and postgraduate students to benefit from membership in four materials-related societies for a single membership fee.

Visit www.materialadvantage.org to learn more or to join the program.

MATERIAL ADVANTAGE™
The Student Program for Materials Science and Engineering

Everything Else Is Immaterial



SOCIETY AWARDS

TMS INTERNATIONAL SYMPOSIUM ON SUPERALLOYS SCHOLARSHIP

This award is for undergraduate and graduate students majoring in metallurgical and/or materials science and engineering with an emphasis on all aspects of the high-temperature, high-performance materials used in the gas turbine industry and all other applications. Awards are presented in conjunction with the Materials Science and Technology Conference and the International Symposium on Superalloys.

Hannah Walker

University of Wisconsin Madison

“I am extremely honored to be selected as a recipient for this scholarship! TMS and Material Advantage have been crucial in helping me explore my academic interests and connect with fellow students and professionals within the materials discipline. I am very grateful to the TMS International Symposium on Superalloys Committee—this scholarship helps substantially with the accessibility of

my education. After graduation, I am planning to pursue a graduate degree to further broaden my impact in the field.”

Kyle Ventura

University of Florida

“I am incredibly grateful and honored to be a recipient of this scholarship. I would like to thank my adviser Gerhard Fuchs as well as my colleagues at the University of Florida for the help and support they have given me on my academic journey. Being recognized for my work with superalloys encourages me to continue the pursuit of this knowledge. As a member of my school’s Material Advantage chapter, I participated in our Materials Bowl trivia team and made many professional connections as well as friends. After I graduate, I plan to work in industry to continue improving the knowledge in this field. Eventually, I want to be able to teach other aspiring engineers, encouraging them to help make new discoveries and advance the field of metallurgical engineering.”



Hannah Walker



Kyle Ventura

Become a 2021 TMS Scholar

Are you a full-time undergraduate or graduate student interested in financial assistance, early career recognition, and important opportunities for advancement through technical exchanges at the TMS Annual Meeting & Exhibition? Consider applying for a 2021 TMS Scholarship.

Applicants must submit a completed TMS scholarship application form; an individual statement; three recommendations; and an up-to-date transcript to Bryn Simpson, TMS Membership and Volunteerism Program Manager, at bsimpson@tms.org.

For more scholarship submission details and to access application forms, visit awards.tms.org.