



Updates on friends and colleagues in the materials community

New TMS Board Members Begin Their Terms



Dennis M. Dimiduk



John N. Hryn



James W. Sears



Garry W. Warren



George T. (Rusty) Gray III

The TMS Board welcomed several new members at its meeting on February 17.

Dennis M. Dimiduk is the new chair of the Structural Materials Division (SMD). He is a laboratory fellow and principal materials research engineer at the Air Force Research Laboratory, Materials and Manufacturing Directorate. Dimiduk has been a TMS member since 1995, has served on the High Temperature Alloys and Titanium committees, and organized numerous symposia. He also worked to establish the Advanced Characterization and Testing Committee and is a member of that group.

The new chair of the Light Metals Division (LMD) is John N. Hryn. Hryn is a principal process development engineer at Argonne National Laboratory. He is the principal investigator on a number of research projects, including development of inert anodes for aluminum production, lost foam casting of magnesium, development of ultrananocrystalline diamond coatings, and development of nanoporous separation membranes. Hryn joined TMS in 1993 and has served in various leadership

positions on several technical committees.

Beginning his term as chair of the Materials Processing & Manufacturing Division (MPMD) is James W. Sears. He is director of Additive Manufacturing at the South Dakota School of Mines & Technology and executive director of the Quad Cities Manufacturing Laboratory, a nonprofit research and development company in the Rock Island Arsenal—Joint Manufacturing and Technology Center. Sears also serves as chief technical officer for Black Hills Nanosystems and as a consultant for Control Systems Technology. Since joining TMS in 1989, he has contributed to a number of technical and administrative committees and organized numerous symposia. His leadership positions at TMS include serving as the MPMD *JOM* representative, chair of the Powder Materials Committee, and MPMD representative for the Member and Student Development Committee.

Garry W. Warren, professor in the Department of Metallurgical and Materials Engineering at the University of Alabama, Tuscaloosa, assumed the post

of vice president on the TMS Board, and will be installed as TMS President in 2011. He has been especially active in the Extraction & Processing Division (EPD), where he has held a number of leadership positions, including the EPD Executive Council, chair of the Publications Committee, chair of the Programming Committee, chair of the Continuing Education Committee, and chair of the Aqueous Processing Committee. He has also served on the TMS Board of Directors as chair of the Publications Coordinating Committee and has been a member of the TMS Financial Planning Committee.

In other Board news, George T. (Rusty) Gray III was installed as the 2010 TMS President. He is a laboratory fellow at Los Alamos National Laboratory. A TMS member since 1986, Gray, among many other roles at TMS, has served on the TMS Titanium and Mechanical Metallurgy Committees and was the SMD representative to the TMS Program Committee, as well as director of Publications on the TMS Board. Ray D. Peterson, 2009 TMS president, will remain on the board as the immediate TMS Past President.

In Memory of Edward A. Loria, 1916–2010



Edward A. Loria, a TMS member since 1945, passed away on February 28 in Pittsburgh, Pennsylvania. Among his many contributions to TMS, he organized six symposia

on superalloys 718, 625, 706 and derivatives and compiled and edited the books of technical papers which accompanied each of these conferences. At the age of 89, he completed his last symposium and book for TMS and the proceedings were dedicated to him in honor of his achievement. He also was the recipient of the TMS Application to

Practice Award in 2001.

Loria earned his B.S. and M.S. degrees in Metallurgical Engineering from Carnegie Mellon University. During his career, he published more than 200 technical papers and held positions with a number of major metals producers. He remained active in the field that he loved into his 90s.



TMS Member Profiles

Meet a Member: Passion for Skiing Shapes Travis Halverson's Career Path

By Lynne Robinson

Silent and soft, a newly fallen snow has blanketed the mountains in a pristine, unbroken expanse of glittery white. It's a "powder day" in the Colorado Rockies and Travis Halverson is celebrating.

An avid skier since the age of three, Halverson calls powder skiing a "truly pure and wholesome form of skiing—just nice soft turns and enjoying time in the mountains."

"The thing that makes powder skiing so special is the fact that there is nothing artificial about it," Halverson said. "It can't be manufactured or re-created."

A 2009 graduate from the University of Minnesota and currently an intern at Rocky Mountain Underground Skis in Summit County, Colorado, Halverson has found materials science and engineering to be an effective conduit for turning his life's passion into his life's work. He said he first made the connection between skiing and materials science in high school, when he was dissatisfied with the performance and durability of his skis.

"I had several experiences of skis falling apart and a company's not changing anything about its manufac-

turing process to correct for the problem. That's when I began to become interested in ski construction," he recalled. When looking through a book of college majors, he said materials science caught his eye because "part of the description included work with ski design and construction."

"I have always been fascinated by how and why things work the way they do," Halverson continued. "I felt that an education in materials science would allow me to better understand what makes a ski perform the way it does."

While in college, Halverson pursued projects that enabled him to gain a solid knowledge base in ski technology and now draws on these experiences in his work with Rocky Mountain Underground Skis, a boutique ski manufacturer. "I can work and communicate easily with people who have been involved with ski construction for many years due to my understanding of the technology," he said.

Halverson noted that design issues with current ski construction focus on weight and durability. "As new materials become available and are utilized, skis will become more lightweight and

durable," he said. "Another major development involves the shape of skis, with large powder skis becoming popular in recent years. Each company is experimenting with different designs to give their skis the best 'float' on top of the snow, but no one has the exact answer figured out just yet. It will be interesting to see where the designs go in the next few years."

Halverson recounted his professional journey from the lift to the laboratory in his "TMS, MSE & Me" video contest entry and ended up winning first place for his story. Jake Strassman, Halverson's roommate and a graphic design major, filmed and edited the piece, while Mike Waesche, owner and founder of Rocky Mountain Underground Skis, opened up his shop as a shooting location. The result was a polished presentation that combined a quick primer on material considerations in ski construction with a demonstration of various ski styles set against the Rocky Mountains—close to where Halverson now lives and works.

Halverson's proximity to the snow sports epicenter of Colorado has enabled him to ski five to six days a week this past season. On the prized "powder days," he prefers "riding the back bowls at Vail." On warm, sunny days, he heads to a local terrain park that features the jumps and rails necessary for the tricky, acrobatic maneuvers of freestyle skiing—an event he competed in during high school and college.

"I love skiing because of the creativity that can be infused into the riding," Halverson said. "There is no one right way to make it down the mountain."

Each month, *JOM* profiles a TMS member and his or her activities both in and out of the realm of materials science and engineering. To suggest a candidate for this feature, contact Maureen Byko, *JOM* editor, at mbyko@tms.org.



Figure 1. In his winning video, Travis Halverson tells the story of how he combined his love for skiing with a materials science and engineering career.



Figure 2. Halverson puts his skis—and his skills—to the test.