

Minnesota Explores Proto Labs

On September 20, the ASM Minnesota Chapter toured Proto Labs in Plymouth. Approximately 40 members attended the tour and learned about Proto Labs' capabilities in CNC machining, injection molding, and 3D printing.



Seal Wins Grant for UCF

The National Science Foundation has awarded the University of Central Florida (UCF) a grant to help fund the purchase of a \$900,000 imaging device that will do everything from design nanoparticles of the future to delve into our civilization's past. Rather than siloed in one department's lab, the state-of-the-art x-ray photoelectron spectrometer with ultrafine imaging capability will be used by researchers from physicists to anthropologists. **Sudipta Seal, FASM**, led the effort to acquire the technology. Seal is chair of the department of materials science and engineering and an ASM trustee. His collaborators on the grant application included **Yongho Sohn, FASM**, professor in the department of materials science and engineering and **Amit Kumar**, associate director of research programs at Florida's Bridging the Innovation to Development Gap.



Seal

MEMBERS IN THE NEWS

Ravindran Lectures in Support of IIM-ASM Partnership

ASM reinforces global partnerships with sister societies and materials communities. As part of an ongoing partnership with the Indian Institute of Metals (IIM), **Prof. Mukhopadhyay** (IIM coordinator) invited **Prof. Ravi Ravindran, FASM**, (ASM coordinator) to the Indian Institute of Technology at Banares Hindu University (IIT-BHU), Varanasi, India. On August 19, Prof. Ravindran delivered a talk there on "In-situ Analysis of Incipient Melting of Al Casting Alloys." Initiated in 2012, the ASM-IIM North America Lectureship is a joint program of IIM and ASM, enabling the visit of two high-profile Indian materials engineers to North America to deliver lectures on leading edge technologies and research.



Pictured seated (left to right) are Prof. Shanthi Srinivas, Prof. Vikas Jindal, Prof. Ravi Ravindran, Prof. Shrikant Lele, and Prof. Kaushik Chattopadhyay. Standing are graduate students.

Tarkanian's MIT Contest Breeds Innovations

Michael Tarkanian, senior lecturer in MIT's department of materials science and engineering, is the competition organizer for the annual MADMEC contest. MIT students present oral and poster demonstrations explaining inventions they designed over the summer to solve a range of sustainability issues. This year's winning team called A Salt Solution won \$10,000 for a model of a simple, low-cost hydrogel for uranium mining in seawater. A number of former MADMEC competitors have started companies based on their inventions. Clear Motion (formally Levant Power), the third-place winner at the first MADMEC in 2007, later raised \$130 million to build shock absorbers that enhance vehicle handling while producing electricity to improve efficiency. Embr Labs, 2013 winner, sold nearly half a million dollars' worth of preorders for its marketable thermoelectric wristband that cools and heats the body.



Michael Tarkanian (center) with MADMEC 2017 competitors, Team Dumbledore (left) and Team Geoworks (right).