

## Member News



Updates on friends and colleagues in the materials community

### Edward D. Herderick Named Director of R&D at rp+m

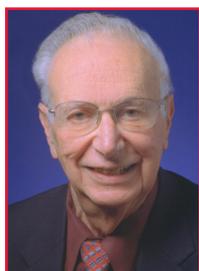


Edward D. Herderick

Edward D. Herderick has accepted the position of director of research and development (R&D) at rapid prototype+manufacturing (rp+m) in Avon Lake, Ohio. His role is to focus on R&D activities that expand the company's product and service offerings, while identifying and capturing strategic growth opportunities to enhance technical excellence. He will be leading a team that brings new materials solutions to market.

rp+m was founded in 2009 to provide state-of-the-art additive manufacturing technology to clients. It is an outgrowth of Thogus, a custom polymer injection molding company. A recent success for the company has been the development of 3-D printed bonded tungsten, in collaboration with ExOne.

### Stanley Abkowitz Receives Titanium Development Award



Stanley Abkowitz

Stanley Abkowitz, founder, president, and chief executive officer of Dynamet Technology Inc., received the International Titanium Association's (ITA) 2013 Titanium Applications Development Award on behalf of his company. Dynamet, based in Burlington, Massachusetts, has pioneered the development and application of titanium powder metal (PM Ti) technology for four decades.

Abkowitz said, in a recent press release, that winning the ITA award is a validation of his company's persistence in proving the value of its powder metal approach as an alternative to conventional processing, and he credited his team for Dynamet's engineering, manufacturing, and quality system advances.

### Robert Wagstaff Inducted into Inaugural Novelis Fellowship Program



Robert B. (Bob) Wagstaff

Robert B. (Bob) Wagstaff has been inducted into the inaugural Novelis fellowship program, the company's highest technical honor recognizing exceptional engineers and scientists.

Candidates must be considered subject matter experts inside and beyond Novelis, with a sustained body of independent and innovative engineering and scientific work that demonstrates measurable business impact. Only four fellowships were awarded among 11,000 employees worldwide this year.

Wagstaff is director of molten metal processing at Novelis and is a leading expert in melting and solidification of aluminum and its alloys. He holds a number of patents and has received an array of awards and honors throughout his career, including the 2009 TMS Light Metals Award.

### Pradeep Rohatgi Receives Distinguished Alumni Award



Pradeep Rohatgi

Pradeep Rohatgi, Distinguished Professor of Materials Engineering at the University of Wisconsin-Milwaukee (UWM) and director of its Centers for Composites and Advanced Materials Manufacture, received the Indian Institute of Technology's 2013 Distinguished Alumni Award.

The award recognizes Rohatgi's sustained leadership in research on solidification synthesis and characterization of metal matrix composites; pioneering initiatives in technology and product development, education, and materials policy; and institution-building accomplishments. A 2012 TMS Fellow, he has published more than 500 papers and co-authored or co-edited eight books, and holds 20 U.S. and several worldwide patents.

### Phinix Awarded ARPA-E Funding



Subodh Das

Phinix, LLC, a Lexington, Kentucky, research and development company founded by Subodh Das in 2008, has been awarded funding by the U.S. Department of Energy Advanced Research Projects Agency-Energy (ARPA-E) for its aluminum-magnesium scrap recycling project, "Electrochemical Extraction of High Quality Magnesium from Scrap." Das also serves as chief executive officer of the company, which provides research,

development, and consulting services in process and product development, recycling, and energy and carbon management for light metals.

Phinix will use the \$600,000 ARPA-E grant to develop a new technology that has the potential to lower costs and develop a new sustainable, advanced manufacturing process.

### JOM NEEDS YOUR NEWS!

Have you recently been promoted, won an award or achieved some other professional milestone? *JOM* would like to know! Send your announcement to Lynne Robinson at [lrobinson@tms.org](mailto:lrobinson@tms.org) and we will publish your good news in the member section of the journal.



**TMS Member Profiles**

**Meet a Member: Elizabeth Holm Doesn't Fiddle Around When Playing Celtic Music**

By Lynne Robinson

There are centuries of voices celebrating life's small joys, often tinged with an undercurrent of longing and loneliness, that live on in the notes of Celtic music. Capturing those moments is what Elizabeth Holm loves the most and seeks to do every time she bows the strings of her fiddle.

"The fiddle is one of the canonical traditional instruments for Irish and Scottish music, as well as other Celtic music," said Holm, 2013 TMS president and a professor at Carnegie Mellon University, Pittsburgh, Pennsylvania. "I personally believe that the fiddle is best able to capture the darker emotions, as well as the brighter ones, that Celtic music has ingrained in it. Irish folk music developed over centuries of hard times, while Scottish music has risen from a culture that is intensely proud of its individuality. The fiddle brings out these layers of experience beautifully."

Holm had studied classical violin as a child, but drifted away from playing as the rigors of college and establishing a career took up her time. It was after

the birth of her daughter, Maggie, that she looked again to music as a creative outlet. "I realized I was spending more time at home, and wanted to do something other than watch television," she said. Because classical violin is orchestra-based, and she did not want to devote time to rehearsals, Holm turned to Irish fiddle playing at the suggestion of her friend, Joan Berkwitz. "I fell in love with the beautiful tunes and the fact that I could play them anywhere. It was a wonderful way to spend an evening with family," she said.

At the beginning of her folk music journey, Holm lived in Albuquerque, New Mexico, while working for Sandia National Laboratories. Through a music class that she took at the University of New Mexico, she met other professional women who enjoyed the camaraderie of playing together. They eventually formed Womenfolk, performing as a group for charitable events and community organizations. "We chose gigs where we could provide joy and not worry about being pros. None

of us had time to be pros," she said. Holm and Jude Rowe, a folk guitarist, also joined musical forces to start the Prickly Peach Jam Band—named after Holm's "famous, state fair-winning preserves."

Her favorite tune to play in public, notes Holm, is *Scotland the Brave* as part of a traditional Scottish country dance performance. "When the band starts the tune, everyone in the room stands, and you can see tears come to the eyes of some, while the dancers march on to the floor with such pride," she said. "It's an amazing feeling to bring that emotional moment to an audience, while simultaneously humbling as you witness what music means to people's lives."

Since moving to Pittsburgh earlier this year, Holm's public performance days are on hold until she has a chance to explore the local music scene. For now, she is looking forward to seeing Scottish fiddle legend, Alasdair Fraser, and renowned cellist, Natalie Haas, perform at the TMS-AIME Honors and Awards Banquet at the TMS 2014 Annual Meeting & Exhibition. Holm, as TMS president, was able to recommend the banquet's entertainment and suggested contacting Fraser's organization for references to local Celtic musicians. She was stunned—and delighted—that Fraser and Haas were available and willing to play at the event.

"It's amazing to me that we will have the greatest living Scottish fiddler performing in such an intimate setting," she said. "I know, for most of the attendees, that this will be their first exposure to traditional Scottish music. But, they will have a chance to experience it at the very highest level and will truly be seeing a master at work."

Elizabeth Holm (standing) plays at her wedding reception with Womenfolk, along with band mates, Ariane Pinson on flute (right) and Bronwyn Wilson.

Holm (in black) and her friend, Jude Rowe, formed the Prickly Peach Jam Band, playing primarily for local Celtic dance groups and festivals. "There is nothing more fun than playing music and watching people dance to it," Holm said. "The movement, music, and social interaction is all about joy."

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 Lynne Robinson at [lrobinson@tms.org](mailto:lrobinson@tms.org).