

the YOUNG LEADER

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The Newsletter of the TMS Young Leaders Committee

XINGBO LIU TO FOCUS ON ENERGY FOR TMS 2010 YOUNG LEADER TUTORIAL LUNCHEON LECTURE

Each year, the TMS Young Leader Tutorial Luncheon Lecture offers an opportunity for young professionals to not only network, but also advance their knowledge needed to forge ahead in their careers. At the TMS 2010 Annual Meeting and Exhibition, to be held February 14–18 in Seattle, Washington, Xingbo Liu, an assistant professor in the Mechanical and Aerospace Engineering Department at West Virginia University, will present the TMS Young Leader Tutorial Luncheon Lecture.

Liu was named the 2010 TMS Early Career Faculty Fellow, and as a requirement of that award he will present the luncheon lecture. He must also organize a technical symposium for the 2011 TMS Annual Meeting in San Diego, California.

Liu's talk, "Energy Materials—Past, Present, and Future," focuses on the history of pursuing improved materials for the need of production and efficient consumption of energy. He will speak on primary sources of energy prior to the 18th century; how advances in technology, beginning with James Watt's invention of the steam engine, led to coal and other

resources being dominant sources of energy; today's energy resources; how the demand of energy has been tremendously increased in recent years with the development of the world's economy; and those of the foreseeable future. Liu's speech also addresses the evolution of metallic materials and how they were the main driving force for major energy and industrial technology improvement and the need for improving efficiency in both industrial and residential energy consumptions. Current issues such as future materials R&D for non-traditional energy sources such as wind, nuclear, and solar will also be touched upon.

"Since becoming a member of TMS in 2002, the Society has played a critical role in my career development," Liu said. "Through attending and organizing symposia and participating in different committees, I have had the valuable opportunity to interact with scientists and engineers in the field of high-temperature materials for energy conversion from all over the world. I am thrilled to be the recipient of the TMS 2010 Early Career Faculty Fellow Award, and will exert more of my effort in contributing to the TMS community."

TMS JOINS THE SOCIAL NETWORKING SCENE: FLICKR, LINKEDIN, FACEBOOK

TMS members are now able to socially connect with professionals from across the globe through three social networking sites—Flickr, LinkedIn, and Facebook. Each of the Society's group pages offers a plethora of opportunities to not only connect in a professional manner, but also in a fun one.

The Flickr photo sharing site was set up prior to the TMS 2009 Annual Meeting & Exhibition in San Francisco, California, as a way to share conference events with those who could not be at a particular session or networking opportunity, but also with those who could not make it to the annual meeting. Attendees are encouraged to upload photos and videos from daily events, meetings, the exhibit hall, and even down-time from any TMS sponsored or co-sponsored conference.

TMS continued to follow the social networking scene by adding the TMS identity to an existing LinkedIn group page that was established last August by a Society member. This networking page offers materials science professionals and their colleagues a chance to join discussions, remain up-to-date on TMS news, search posted jobs, and become connected with other materials science professionals. By mid-July, the group page consisted of 416 members and numerous job postings and discussions.

To round out TMS' social networking opportunities, the Society recently established a fan page on Facebook—TMS- The Minerals, Metals & Materials Society (Figure 1). The page allows fans, or Facebook members, to post comments to Society postings or to generate discussions of their own. In addition, up-to-date TMS news scrolls from the fan page is you—and your conference photos and videos, of course!

To join both the TMS LinkedIn group and Facebook fan pages, you must be a member of each social networking site. To become a LinkedIn member, visit www.Linkedin.com; a Facebook member, www.Facebook.com; or to view or upload photos to the TMS Flickr site, visit www.flickr.com/photos/tmsevents/.



Figure 1. The new Facebook social networking site (www.Facebook.com, keyword TMS- The Minerals, Metals & Materials Society) allows fans to interact with materials science professionals in a professional, yet fun way.

TMS YOUNG LEADER COMMITTEE OFFICERS

Gregory Thompson, Chair

Alpesh Shulka, Vice Chair

Ben Poquette, Secretary

Subhadarshi Nayak, Past Chair

TMS YOUNG LEADER PROGRAM OPPORTUNITIES: DEADLINES APPROACH FOR LEADERSHIP PROGRAMS

The TMS Young Leaders program offers young professionals a variety of opportunities to become more involved in TMS and for its members to take part in leadership development programs and to experience international travel. Many of these programs are currently accepting applications for the 2010 awards.

Young Leader International Scholar Award

Applications Due September 15

The Young Leader International Scholar Award is open to all TMS professional members age 35 or younger with an interest in traveling and learning how materials science and engineering work is conducted in Japan. This is an exchange program between TMS and the Japan Institute of Metals (JIM). Each year, TMS selects one or more scholars to attend the JIM Spring Meeting, and JIM selects one scholar to attend the TMS Annual Meeting.

In 2009, Donald Siegel, a faculty member in the Mechanical Engineering Department at the University of Michigan in Ann Arbor, traveled as the TMS representative to the JIM Spring Meeting, held on the Ookayama Campus of the Tokyo Institute of Technology (Figure 2). While there, Siegel gave technical presentations, sat in on meeting sessions, and toured the National Institute for Materials Science and Toyota Central R&D Labs. Travel expenses were paid for by the TMS Foundation.

Applications for the 2010 International Scholar Award must include a paper topic and abstract for review, a letter of recommendation, and a paragraph describing why the applicant wishes to represent TMS in the program. For more information and an application form, visit www.tms.org/YoungLeaders/YoungLeadersScholar.html.

Young Leader Professional Development Award

Applications Due October 15

The Young Leader Professional Development Award is ideal for young professionals from industry, academia, or government who are interested in learning more about leadership opportunities with TMS and becoming more involved in society activities. Open to TMS professional members aged 35 or under, the Professional Development Award provides the opportunity for awardees to attend two TMS conferences and offers access to high-level meetings of society executives.

Each of the five TMS technical divisions selects one or two Professional Development Award winners each year. Awardees in the extractive & processing and light metals fields will attend two consecutive TMS Annual Meetings (the 2010 meeting in Seattle, Washington, and the 2011 meeting in San Diego, California). Those in the electronic, magnetic & photonic materials; materials processing & manufacturing; and structural materials fields will attend the TMS 2010 Annual meeting in February and the Materials Science & Technology 2010 (MS&T'10) conference in the fall in Houston, Texas.

Conference registration fees are waived for the award winners, and TMS provides housing and a travel allowance for winners. Past

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A Young Leader is any TMS professional member in good standing age 35 or under. The goals of the TMS Young Leaders Committee are to recognize young professionals, develop in them an appreciation and awareness for TMS activities, provide services specifically tailored to young members, and encourage networking with TMS leaders and prominent society members. For more on TMS Young Leader activities, visit www.tms.org/YoungLeaders/YoungLeaders.html.

winners have appreciated the behind-the-scenes glimpse that the program offers into the workings of a professional society and the networking opportunities with high-level leaders of the society. For more information on the program and to download an award application, visit www.tms.org/YoungLeaders/yl-internship.html.

Early Career Faculty Fellow Award

Applications Due October 31

The Early Career Faculty Fellow Award is a two-year award for early career professionals working in academia who want to gain experience presenting and organizing symposia at conferences. In the first year, the recipient is invited to present the Young Leader Tutorial Luncheon Lecture at the TMS Annual meeting. In the second year, he or she is invited to organize a symposium for the TMS Annual Meeting. In return, TMS waives the registration fee and provides funds for travel and accommodation for fellows to attend two consecutive annual meetings.

At the TMS 2009 Annual Meeting in February, the 2009 Early Career Faculty Fellow, Alejandro Strachan, delivered the Young Leader Tutorial Luncheon Lecture, "Atomistic and Mesoscale Modeling of Materials: Towards Predictive Tools for Materials Design," in the first year of his fellowship (Figure 3). Meanwhile 2008 winner Katsyo Thornton, in the second year of her award, organized the 2009 conference's Synergies of Computational and Experimental Materials Science symposium.

The program, open to tenure-tracked assistant professors, recognizes accomplishments that have advanced the academic institution where the professor is employed and the ability to broaden the technological profile of TMS. Applications can be accessed at www.tms.org/Society/PDFs/EarlyCareerFellowApp.pdf.



Figure 2. Donald Siegel, left, receives the International Scholar Award from TMS Past President Diran Apelian during the TMS 2009 Annual Meeting and Exhibition in San Francisco, California.



Figure 3. TMS 2009 Early Career Faculty Fellow Alejandro Strachan delivers the Young Leader Tutorial Luncheon lecture at the 2009 Annual Meeting in San Francisco, California.