



## NEW EMERGING LEADERS ALLIANCE EQUIPS ENGINEERING'S FUTURE LEADERS

To be successful, today's engineers need more than technical training. They must have business, leadership, and communication skills. They must develop sustainable solutions and consider the environmental impact of their choices. But while well-rounded engineers are in demand, undergraduate education and employee training programs may not be able to address all of these needs.

Professional societies may be able to fill this gap by providing training opportunities to young professionals. That's why TMS is taking a leadership role in a new initiative designed to provide engineers with nontechnical skills to supplement their technological know-how. The new Emerging Leaders Alliance is a joint effort among professional societies in mechanical, civil, chemical, and materials engineering.

In June, TMS launched the program web site, [www.emergingleadersalliance.org](http://www.emergingleadersalliance.org), which includes resources that young professionals can consult to gain a better understanding of the skills engineers will need in the 21st century (Figure 1). Resources include webcasts in which leaders in the field discuss issues of current relevance, presentations given at the TMS 2008 Annual Meeting, national reports, and resources on environmental stewardship and social responsibility.

The site also serves as an introduction to the program and provides information on upcoming plans and events. The next step for the Emerging Leaders Alliance will be to launch a workshop training program. The first workshop, called a Capstone Program, will be held in October in conjunction with the Materials Science & Technology 2008 (MS&T'08) conference in Pittsburgh, Pennsylvania. Approximately 50 young professionals from a variety of disciplines will gather to hear presentations by distinguished keynote speakers from the United States Steel Corporation, Bayer MaterialScience, and Carnegie Mellon University. Participants will then join in training modules to enhance their skills in risk assessment; critical thinking and problem solving; team building and coaching; social responsibility and ethics; multicultural, gender, and generational communication; and conflict resolution.

Before and after the workshop, participants will have access to a private resource and discussion area on the site that provides additional readings on these topics and an opportunity to further discuss issues of relevance in their own careers. Eventually the web

site will grow to become an interdisciplinary community of learning for science and engineering professionals. Additional plans to expand the program are now in the works for next year.

Funding for the Emerging Leaders Alliance is provided by the United Engineering Foundation, which consists of the American Society of Civil Engineers; the American Institute of Mining, Metallurgical, and Petroleum Engineers (of which TMS is a member society); the American Society of Mechanical Engineers; the Institute of Electrical and Electronic Engineers; and the American Institute of Chemical Engineers.

The alliance is not a part of the TMS Young Leaders program but offers a next step in career development for TMS Young Leaders, providing real-world, interdisciplinary leadership training. In its current form, the web site can be a valuable resource for young professionals who may also want to consider participating in future training programs.

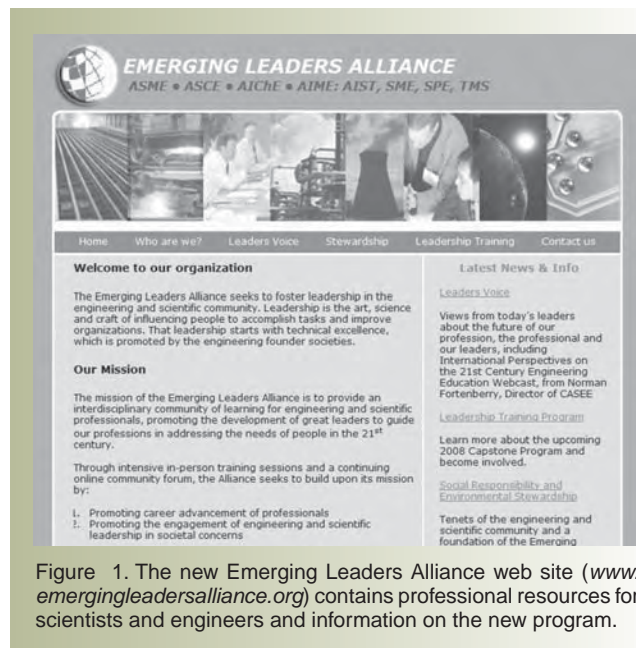


Figure 1. The new Emerging Leaders Alliance web site ([www.emergingleadersalliance.org](http://www.emergingleadersalliance.org)) contains professional resources for scientists and engineers and information on the new program.

### THE YOUNG LEADER

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](http://www.tms.org/YoungLeaders/YoungLeaders.html).

### TMS Young Leader Committee Officers

**Subhadarshi Nayak**, Chair

**Gregory Thompson**, Vice Chair

**Alpesh Shukla**, Secretary

**Ellen K. Cerreta**, Past Chair

## OPPORTUNITIES FOR YOUNG PROFESSIONALS: DEADLINES APPROACH FOR TMS YOUNG LEADER PROGRAMS

The TMS Young Leaders program offers young professionals a variety of opportunities to become more involved in TMS and its activities, to take part in leadership development programs, and to experience international travel. Many of these programs are currently accepting applications for the 2009 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. The program is essentially an exchange program between TMS and the Japan Institute of Metals (JIM). Each year, TMS selects two scholars to attend the JIM Spring Meeting, and JIM selects one scholar to attend the TMS Annual Meeting.

In 2008, Gregory Thompson of the University of Alabama and Dallas Trinkle of the University of Illinois at Urbana-Champaign traveled as TMS representatives to the JIM Spring Meeting, held in Tokyo. There, they gave technical presentations, sat in on meeting sessions, and toured local Japanese facilities in their areas of interest. Travel expenses were paid by the TMS Foundation. In return, Thompson and Trinkle acted as hosts to Masakazu Tane, the 2008 International Scholar from JIM, at the TMS 2008 Annual Meeting in New Orleans, Louisiana (Figure 2).

Applications for the 2009 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. Though both of the 2008 winners were from academia, the program is open to all young professional members. Past winners have also hailed from industry and government sectors. For more information and an application form, visit [www.tms.org/YoungLeaders/YoungLeadersScholar.html](http://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 working in the extraction & processing and light metals fields will attend two consecutive TMS Annual Meetings (the 2009 meeting in San Francisco, California, and the 2010 meeting in Seattle, Washington). Those in the electronic, magnetic & photonic materials; materials processing & manufacturing; and structural materials fields will attend the TMS 2009 Annual Meeting in February and the Materials Science & Technology 2009 (MS&T'09) conference in the fall in Pittsburgh, Pennsylvania.

Conference registration fees are waived for the award winners, and TMS provides housing and a travel allowance for winners. Past 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](http://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 2008 Annual Meeting in March, the 2008 Early Career Faculty Fellow, Katsuyo Thornton, delivered the Young Leader Tutorial Luncheon lecture, "Computational Materials Science and Engineering: What Is It and How Do We Take Advantage?," in the first year of her fellowship (Figure 3). Meanwhile 2007 winner Ryan K. Roeder, in the second year of his award, organized the 2008 conference's Biological 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](http://www.tms.org/Society/PDFs/EarlyCareerFellowApp.pdf).



Figure 2. From left, JIM International Scholar Masakazu Tane shares dinner with Ellen Cerreta, past chair of the TMS Young Leaders Committee, and 2008 TMS International Scholars Dallas Trinkle and Gregory Thompson at the TMS 2008 Annual Meeting in New Orleans, Louisiana.



Figure 3. 2008 Early Career Faculty Fellow Katsuyo Thornton delivers the Young Leader Tutorial Luncheon Lecture at the TMS 2008 Annual Meeting in New Orleans, Louisiana.