



*Updates on friends and colleagues in the materials community*

## **Society Governance Changes with Member Ratification of New Bylaws**

TMS members ratified a new set of society bylaws in mid-November. The society operates under a core set of bylaws, which are voted on and approved by TMS members. The new bylaws went into effect November 17, 2008.

The TMS Board of Directors approved the bylaws on July 25, 2008, sending them on to the members for ratification. Here are a few of the key recommendations that the ad hoc Committee on Governance, in addition to the creation of new bylaws, submitted for approval:

- Have the TMS Executive Committee work with the Administrative and Technical committees to update their policies and bring

them into alignment with the new governance requirements and the bylaws.

- Create new policies that address the need for more transparent processes and re-emphasize the central role of the Board of Directors.
- Create a new Executive Committee policy that defines the construction and role of the committee and establishes it as a resource to the Board of Directors.
- Create a new Nominating Committee policy that identifies Board of Director nominees for director positions.
- Create and implement a Docu-

ment Retention and Destruction policy.

In March 2008, TMS President Diran Apelian commissioned the ad hoc Committee on Governance to review the previous TMS bylaws, administrative and policy manuals, other documents, and the practices and procedures for consistency, clarity, and to ensure accuracy of all documents. He was prompted to take action due to the Sarbanes-Oxley Act, changes in the Pennsylvania state law, and a 10-year hiatus from bylaw revisions.

To view the new TMS bylaws, visit the Society Governance section of the TMS homepage at [www.tms.org/society/bylaws.aspx](http://www.tms.org/society/bylaws.aspx).

### **TMS MEMBER RECEIVES THE NATIONAL MATERIALS ADVANCEMENT AWARD**

TMS Fellow Siegfried Hecker received the 2008 National Materials Advancement Award from the Federation of Materials Societies. He is a professor in the Department of Management Science and Engineering at Stanford University, in addition to serving as co-director of the university's Center for International Security and Cooperation and emeritus director of the Los Alamos National Laboratory.

The National Materials Advancement Award recognizes individuals who have demonstrated outstanding capabilities and contributions in advancing the multi-disciplinary field of materials science and engineering; the effective and economic use of materials in the marketplace and the application of materials developments to national problems and defense; and the development and implementation of national policy which furthers the impact of materials sciences and engineering on our society.

Hecker has been a member of TMS since 1964. He was scheduled to receive the award in Washington, D.C. in December.

## **Board Elevates Thirteen TMS Members**

On December 11, 2008, the Board of Directors voted to elevate 12 new members to Professional Member grade and another member to Junior Member grade.

Under the new bylaws, the Board of Directors is required to vote on the grade of membership a new member will be placed at.

The following new members were elevated from Non-Voting Members:

- **Bhabani Shanker Acharya:** Maputo, Mozambique; production supervisor, Mozal Sarl; Professional Member.
- **Laurent Cottignies:** Poisat, France; senior R&D engineer, Alcan CRV; Professional Member.
- **Dawn Janney:** Idaho Falls, Idaho; materials engineer, Idaho National Laboratory; Professional Member.
- **Rejin Koodakal:** Thun, Switzerland; post doctorate, EMPA; Junior Member.
- **Rick K. Lazarou:** Kentucky; chairman and chief executive officer, Lazar Anode Technologies, LLC; Professional Member.
- **Michael F. Lazorchak:** Saginaw, Michigan; sales engineer/account manager, B&P Process Equip-

ment; Professional Member.

- **Lindsay Malloy:** Ayer, Massachusetts; metallurgist, Riley Power Inc.; Professional Member.
- **Miguel Angel Neri:** Chihuahua, Mexico; researcher and professor, CIMAV, S.C. (Advanced Materials Research Center); Professional Member.
- **Irina Skripnik:** New York; regional director, i-Libra LLC; Professional Member.
- **Robert J. Smollack:** Montana; operations manager, Columbia Falls Aluminum Co.; Professional Member.
- **Marcio Douglas Soares:** Michigan; director of international business, Jervis B. Webb Co.; Professional Member.
- **Jürgen Timm:** Steisslingen, Germany; project leader, Novelis Switzerland SA; Professional Member.
- **Kristen L. Watson:** Owensboro, Kentucky; coordinator/liaison officer, Lazar Anode Technologies, LLC; Professional Member.

As new members are granted membership into TMS, the Board of Directors will vote on a monthly basis to elevate membership grades.



*TMS Member Profiles*

## Meet a Member: George “Rusty” Gray III, Beekeeper, Stained Glass Artisan

By Francine Garrone

It would be silly to think materials scientists and engineers do not use their scientific knowledge to master other tasks—even hobbies. George “Rusty” Gray III believes his stained glass work and beekeeping are just that—hobbies that benefit from his science and engineering background.

“It’s a hobby, although certainly many of my designs are geometrical and have a science theme,” he said of the intricate patterns on the stained glass lamps he designed. “And I approach all my hobbies as a scholarly project. I read all I can find on the subject and study the previous masters—like in science.”

Gray, a laboratory fellow at Los Alamos National Laboratory in Los Alamos, New Mexico, became fascinated with glass as a young boy. While in grade school, he collected antique bottles, canning jars, and old glass insulators. As he matured into an adult, Gray developed an interest in sculpture. “My dad taught art and drafting as a high school teacher,” he said. “He also did woodworking, remodeling, painting, and drawing—a spectrum of artistic media blended with engineering.”

The 2009 TMS vice-president, Gray became intrigued with stained glass after seeing beautiful lamps in a Pittsburgh, Pennsylvania, museum while working toward his Ph.D. at Carnegie Mellon University. Today, he has crafted a variety of stained glass hangings; jewelry boxes; a large window at the Kappa-Kappa-Gamma sorority house at Carnegie Mellon University; lamps; and gifts for family and friends.

Gray’s main focus, however, is stained glass lamps. Each one distinct, the lamps feature multi-flat-sided assemblages or designs built on forms such as cones. He has also designed complex three-dimensional designs on flat-sided lamps. Gray has incorporated sea shells found while camping in St. John, the United States Virgin Islands,

into his work, and obsidian slices cut from pieces he collected in the Jemez Mountains in Santa Fe, New Mexico.

Many of Gray’s lamps have 400 to 600 pieces that could take a hundred hours in total from design, cutting the glass, grinding the edges, and copper foiling (the technique popularized by “Tiffany” lamps).

Gray also developed an interest in beekeeping as a young man. It was not

his love for bees that brought him to the hobby, but his love for his wife, Altana, a third-generation beekeeper. However, Gray says there is plenty of science in beekeeping. “I read all I can about strategy to beekeeping management—I subscribe to a monthly beekeeping journal,” he said.

Gray began maintaining bee hives at his father-in-law’s home in New Jersey prior to his marriage. It was not until the mid-1990s that he obtained protective gear and bee hives to begin beekeeping at his residence. His engineering knowledge became useful when bears threatened his hives and a friend’s, which he helps maintain, in Paonia, Colorado. “The enclosure around the bee hives is powered by a deep cycle battery that is attached to a solar recharger as the bee yard is out in the orchard away from an electric source,” he said of his friend’s enclosure. “The sheet metal around the yard keeps the grass from shorting the fence and as I connected it to my grounding rod it also serves to provide a guaranteed ground right at the fence for any animal that touches it.”

Each year, Gray and his family harvest honey from the hives for cooking, to give as gifts, and to donate to their church and the United Way for auction.

“All of my hobbies are relaxing,” he said. “I am an engineer through and through—especially in my hobbies.”

To view more of Gray’s stained glass and beekeeping photos, visit the JOM Discussion Board at [iweb.tms.org/forum/default.aspx?forumid=26](http://iweb.tms.org/forum/default.aspx?forumid=26).



George “Rusty” Gray III handles a swarm while clothed in a full body beekeeper’s suit, veil, and protective gloves.



This stained glass lamp was made with sea shells found while camping with his family in St. John, United States Virgin Islands.

Each month, *JOM* will feature a TMS member and their activities outside the realm of materials science and engineering. If you have an interesting activity or know someone who does, contact Francine Garrone, *JOM* news editor, at [fgarrone@tms.org](mailto:fgarrone@tms.org).