



RICHARDS, CROSSLEY, SADOWAY, AND BARDEEN AWARD SUBCOMMITTEE BYLAWS

Purpose Statement: According to the rules established for these awards, the committee will recommend to the TMS Honors & Professional Recognition Committee a nominee for the Ellen Swallow Richards Diversity Award, the Frank A. Crossley Diversity Award, the Sadoway Materials Innovation and Advocacy Award, and the John Bardeen Award.

Procedures: June thru September, this award committee will review nominations and make selections. The committee may propose one candidate each year for the awards based on the award endowments allowing only one recipient. (Award may be withheld any given year if none of the candidates is deemed deserving.) A nomination will remain in effect for three years provided it meets criteria for the award each year unless withdrawn by the Society, but additional nominations may be made annually. The committee chairperson shall present to the TMS Honors & Professional Recognition Committee the award recipients of the various awards approved by this committee, together with appropriate and adequate support documentation. The results of committee deliberations shall be kept confidential until the award recipient(s) have been approved by the TMS Board of Directors and notified by the TMS Awards Administrator. The Richards and Crossley awards are presented in association with the TMS Summit on Creating and Sustaining Diversity in the Minerals, Metals, and Materials Professions in the years when it is held or at the TMS Annual Meeting and Exhibition during years when the summit is not held.

Structure: The subcommittee shall consist of a chairperson and six members. Care should be exercised to assure that the committee membership reflects the diversity of the minerals, metals, and materials community. No more than two members may be prior recipients of the awards. All members, including the chairperson, are to be appointed by the TMS Vice President. Except in special circumstances, the chair shall have already served on the subcommittee for two years. The subcommittee shall recommend subcommittee member candidates to replace those with expiring terms.

Term of Office:

Chair: 1 year

Vice Chair: 1 year

Member: 3 years

TMS views committee membership as a benefit and therefore requires that TMS committee members be TMS members in good standing. Membership on this committee should be kept confidential.

Conflict of Interest: Committee members shall follow guidelines for conflicts of interest, consistent with those established by TMS. For example, committee members shall recuse from voting in nominations involving former/current students or post-doctoral associates,

former research advisors, colleagues in the same department, close collaborators in recent research projects or publications, and partners in spin-off companies.

Meeting Schedule: The subcommittee shall meet at such times as deemed necessary to conduct its business in a timely and effective manner.

ELLEN SWALLOW RICHARDS DIVERSITY AWARD

Financial Statement: As this award was established with a \$15,000 endowment, financial arrangements and the operating budget of the subcommittee shall be subject to approval by the Foundation Board of Trustees. In the event of either dissolution or merger of TMS, the funds earmarked or pledged for the awards shall revert to a special account of TMS to be held until such time that suitable arrangements for presentation of similar awards can be negotiated.

Criteria: This award recognizes an individual, who in the remarkable pioneering spirit of Ellen Swallow Richards, has helped or inspired others to overcome personal, professional, educational, cultural, or institutional adversity to pursue a career in minerals, metals, and/or materials.

The recipient should be recognized as professionally accomplished or promising of professional accomplishment within the minerals, metals, and materials community. The recipient should not be selected based on his/her age, race, gender, national origin, and other demographic factors.

For reference, Ellen Swallow Richards (1842 – 1911) was the first U.S. professional degreed female scientist (the first woman admitted to MIT) and the first female member of TMS' antecedent organization, AIME. Among many accomplishments, she was a metallurgist and is widely recognized as the founder of the field "ecology."

Award: The award shall consist of an award piece; travel assistance of up to \$500 will be provided if requested by the recipient to assure that he/she can attend the award ceremony, and a \$1,500 cash prize.

Support Statement: As this award is endowed by Dr. and Mrs. Jeffrey Wadsworth through the TMS Foundation, the award description and associated promotional literature should reference, "Presentation of this award is supported by a gift to the TMS Foundation from Dr. and Mrs. Jeffrey Wadsworth."

Nomination Requirements:

1. Completed nomination form.
2. Nominator's Supporting Statement: This statement is to be included within the nominator's cover letter of endorsement and should outline the qualifications of the nominee for the award. The letter and supporting statement should be no more than two pages.
3. Current resume or curriculum vitae, no more than five pages.
4. A minimum of two, maximum of five, testimonials (maximum of 150 words each). No more than one testimonial may be from the same affiliation as the nominee. The nominator's letter may be counted in the total number required.

FRANK A. CROSSLEY DIVERSITY AWARD

Financial Statement: As this award was established with a \$20,000 endowment, financial arrangements and the operating budget of the subcommittee shall be subject to approval by the Foundation Board of Trustees. In the event of either dissolution or merger of TMS, the funds earmarked or pledged for the awards shall revert to a special account of TMS to be held until such time that suitable arrangements for presentation of similar awards can be negotiated.

Criteria: This award recognizes an individual who reflects the remarkable pioneering spirit of Frank A. Crossley. This award recognizes an individual who has personally overcome personal, professional, educational, cultural, or institutional adversity to pursue a career in minerals, metals, and/or materials.

The recipient should be recognized as professionally accomplished or promising of professional accomplishment within the minerals, metals, and materials community. The recipient should not be selected based on his/her age, race, gender, national origin, and other demographic factors.

For reference, Dr. Frank Crossley is a pioneer in the field of titanium metallurgy. He began his work in metals at Illinois Institute of Technology in Chicago after receiving his graduate degrees in metallurgical engineering. In the 1950s, few African Americans were visible in the engineering fields, but Frank Crossley excelled in his field. He received seven patents, five in titanium base alloys that greatly improved the aircraft and aerospace industry. Dr. Crossley began his association and membership with TMS in 1947.

Award: The award shall consist of an award piece. The recipient of the Frank A. Crossley Diversity Award will receive a \$1,500 cash prize, and travel assistance of up to \$500 will be provided if requested by the recipient to assure that he/she can attend the award ceremony.

Support Statement: As this award is endowed by Dr. and Mrs. Jeffrey Wadsworth through the TMS Foundation, the award description and associated promotional literature should reference, "Presentation of this award is supported by a gift to the TMS Foundation from Dr. and Mrs. Jeffrey Wadsworth."

Nomination Requirements:

1. Completed nomination form.
2. Nominator's Supporting Statement: This statement is to be included within the nominator's cover letter of endorsement and should outline the qualifications of the nominee for the award. The letter and supporting statement should be no more than two pages.
3. Current resume or curriculum vitae, no more than five pages.
4. A minimum of two, maximum of five, testimonials (maximum of 150 words each). No more than one testimonial may be from the same affiliation as the nominee. The nominator's letter may be counted in the total number required.

SADOWAY MATERIALS INNOVATION AND ADVOCACY AWARD

Financial Statement: As this award was established with an endowment, financial arrangements and the operating budget of the subcommittee shall be subject to approval by the Foundation Board of Trustees. In the event of either dissolution or merger of TMS, the funds earmarked or pledged for the awards shall revert to a special account of TMS to be held until such time that suitable arrangements for presentation of similar awards can be negotiated.

Purpose of Award

- To recognize a mid-career individual with impactful and broad materials science and engineering achievements and a unique ability at championing of their work and the Materials Science and Engineering field through education, public advocacy, or entrepreneurship, particularly in areas related to sustainability.
- To foster the participation of materials scientist and professionals in public advocacy for sustainable materials solutions
- To honor and recognize the innovative achievements of Donald R. Sadoway in materials science, his commitment to sustainable solutions in materials processing, and his legacy of teaching and advocacy in public forums.
- The proposed Sadoway Award is distinguished from other TMS Society-level awards in three significant ways:
 - o First, the award focuses on sustainability, recognizing contributions to materials science that enable and enhance sustainable global development.
 - o Second, the award will recognize an individual with a unique ability for championing their work in the broader public arena, beyond the scientific and technical communities.
 - o Third, because of its emphasis on sustainable development, the award will be accessible to individuals in the process area, in contrast to many of the current awards, which instead focus on materials structure and properties (e.g., the Mathewson, Smith, Mehl, Weertman, Cohen, Sherby, Nix, and Hume-Rothery awards). Although some existing awards are also open to researchers in the process area (the Application to Practice Award, the Brimacombe Medalist, and the Leadership awards), we believe that the proposed Sadoway award is unique in its emphasis on sustainability and public outreach.

Criteria:

1. Must have an established record of innovative achievements in material science of innovations that use and/or involve materials science as a core enabler. Record can be demonstrated by publications, influence of public policy, technical leadership, or entrepreneurship.
2. Must have a record of outstanding communications as evidenced by teaching, public advocacy, or entrepreneurship.
3. May not reach his/her 50th birthday by December 31 of the year in which the initial nomination is made.

At the time of creating this award, Donald R. Sadoway was the John F. Elliott Professor

of Materials Chemistry in the Department of Materials Science and Engineering at the Massachusetts Institute of Technology, having joined the MIT faculty in 1978. The author of over 170 scientific papers and inventor on 32 U.S. patents, his research is on environmentally sound metals extraction technologies and on batteries for grid-scale storage and for electric vehicles.

Award: The award recipient will receive a cash prize of \$5,000 along with an award piece at the TMS Annual Meeting & Exhibition.

Support Statement: The Sadoway Materials Innovation and Advocacy Award was endowed by his students, friends, and colleagues to honor his influence on them, the MIT Department of Materials Science and Engineering, and the global materials science community.

Nomination Requirements:

1. Completed nomination form.
2. Nominator's Supporting Statement: This statement is to be included within the nominator's cover letter of endorsement and should outline the qualifications of the nominee for the award. The letter and supporting statement should be no more than two pages.
3. Current resume or curriculum vitae, no more than five pages.
4. A minimum of two, maximum of five, testimonials (maximum of 150 words each). No more than one testimonial may be from the same affiliation as the nominee. The nominator's letter may be counted in the total number required.

JOHN BARDEEN AWARD

Purpose of Award:

This award recognizes an individual who has made outstanding contributions and is a leader in the fields of electronic and functional materials.

Criteria:

1. Must demonstrate an established record of research and publications in the fields of electronic and functional materials.
2. Recognizes the quality and relevance of work that has had or is likely to have a significant and lasting impact in the fields of electronic and functional materials.

Nomination Requirements:

1. Completed nomination form.
2. Nominator's Supporting Statement: This statement is to be included within the nominator's cover letter of endorsement and should outline the qualifications of the nominee for the award. The letter and supporting statement should be no more than two pages.
3. Current resume or curriculum vitae, no more than five pages.
4. A minimum of two, maximum of five, testimonials (maximum of 150 words each). No more than one testimonial may be from the same affiliation as the nominee. The nominator's letter may be counted in the total number required.