



TMS

The Minerals, Metals & Materials Society

ESTABLISHING ASPIRATIONS

The 2018 TMS Annual Report



INTRODUCING TMS ASPIRES: A LETTER FROM TMS LEADERSHIP

Dear TMS Members,

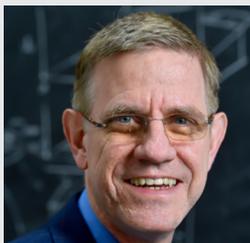
Every three years, TMS develops a new strategic plan to guide the decisions and actions of Society leadership, establishing guidelines that permeate TMS culture. In 2018, the TMS Board of Directors ratified a new kind of strategic plan. We wanted to create more than a to-do list of projects; we wanted to inspire excitement for the Society's future and capture the aspirations of our members.

The result? **TMS Aspires**. The core of this new strategic plan, developed over the course of a year using input from volunteer and staff leaders, is a compact set of overarching goals:

- **Goal 1. TMS aspires to be a highly inclusive society** where all materials students and professionals feel welcome and diversity is celebrated.
- **Goal 2. TMS aspires to be the place where global materials practitioners come together** and participate in vibrant annual meetings, specialty conferences, courses, student activities, and other events.
- **Goal 3. TMS aspires to be the society that envisions, defines, and enables the future** by gathering and empowering materials experts to scope the future of materials science, engineering, and technology.

Taken together, these goals provide a portrait of what TMS can be. In this report, you will see just a few examples of how we have made progress toward these goals, and view a summary of our Society's membership, activities, and financial performance from the 2018 calendar year.

Sincerely,



K J Hemker
Kevin J. Hemker,
2018 TMS President



James J. Robinson
James J. Robinson,
TMS Executive Director

Moving Toward Goal 1.

In 2018, the TMS Board of Directors approved recommendations from two ad hoc committees that will advance inclusivity and increase diversity of gender, employment sector, and national affiliation within the TMS Fellows program.

Moving Toward Goal 2.

Drawing nearly 4,300 attendees to Phoenix, Arizona, the **TMS 2018 Annual Meeting & Exhibition** (TMS2018) was one of the largest annual meetings in TMS history. TMS was also an organizer of three new events in 2018: **Additive Manufacturing Benchmarks 2018** (AM-Bench 2018), held at the National Institute of Standards and Technology (NIST) headquarters; a new, two-day course, **Machine Learning for Materials Science**; and the collaborative global metallurgy conference, **Extraction 2018**, organized in partnership with the Metallurgy & Materials Society of the Canadian Institute of Mining, Metallurgy & Petroleum and the Society for Mining, Metallurgy & Exploration.

Moving Toward Goal 3.

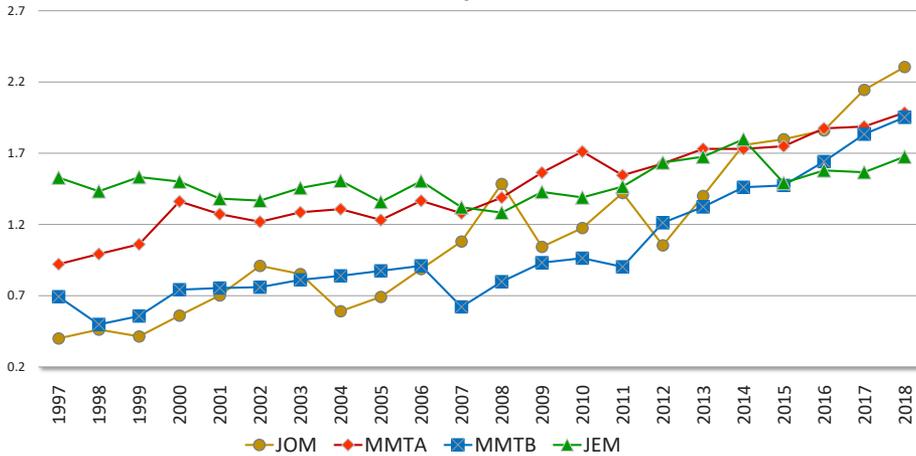
TMS continued its leadership in developing influential technology and roadmapping activities with studies that resulted in the release of two new reports in 2018: **Advanced Computation and Data in Materials and Manufacturing: Core Knowledge Gaps and Opportunities** (October 2018), organized by TMS on behalf of the U.S. National Science Foundation, and **Harnessing Materials Innovations to Support Next Generation Manufacturing Technologies** (March 2018), organized by TMS on behalf of the Alliance for Manufacturing Foresight (MFOresight).

ABOUT TMS IN 2018

THE IMPACT THAT WE HAVE

TMS journals continued their upward Impact Factor (IF) trend with the release of the 2018 Journal Citation Reports (Clarivate Analytics, 2019). The chart shown here demonstrates the progress of these impact factors for *JOM*, *Journal of Electronic Materials* (JEM), *Metallurgical and Materials Transactions A* (MMTA), and *Metallurgical and Materials Transactions B* (MMTB).

TMS Journal Impact Factors



EVENTS WE HELD

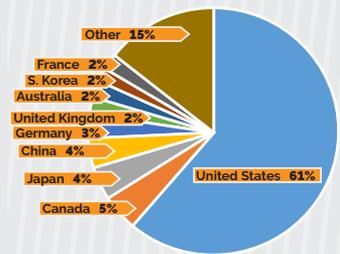
TMS held large, multidisciplinary annual conferences, as well as more focused specialty conferences, workshops, and short courses. The following are 2018 events in which the Society had ownership, sponsorship, and/or management interest:



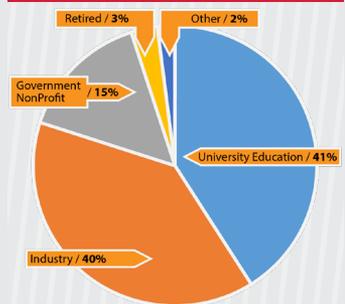
A dozen professional development courses and workshops were also held in conjunction with TMS2018, as well as four offered at MS&T18.

WHO WE ARE

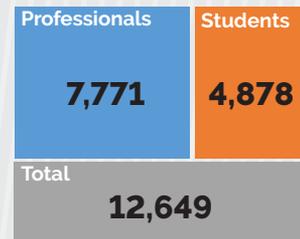
Where Our Members Live



Where Our Members Work



Our Membership Totals



WHAT OUR MEMBERS LIKE

Free subscriptions to the TMS member journal, *JOM*; technical meetings; and networking opportunities were the aspects of TMS that members reported valuing most in the **2018 TMS Member Survey**.

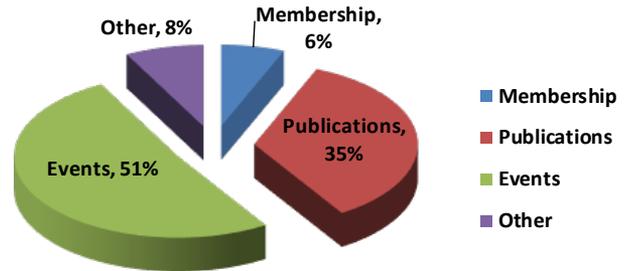
THE GOOD THAT WE DO

TMS unveiled *Materials Explorers™*, its STEM educational outreach initiative, at TMS2018, with the public launch of the program held at the Arizona Science Center in Phoenix. TMS encouraged its members to take the program's resources to their local schools.

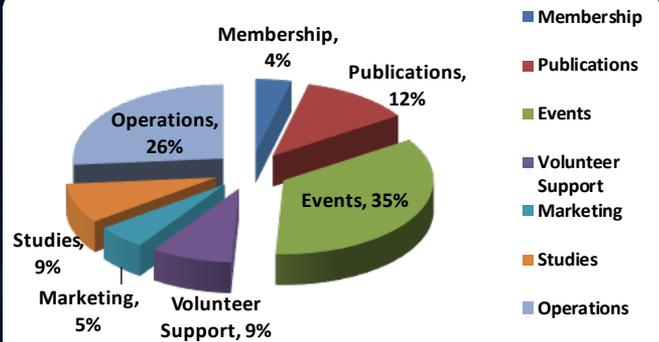


TMS 2018 FINANCIAL REVIEW

2018 Operating Revenues by Program Area



2018 Operating Expenses by Program Area



2018 TMS BOARD OF DIRECTORS

OFFICERS

Kevin Hemker
President

James C. Foley
Vice President

David H. DeYoung
Past President

Adrian C. Deneys
Financial Planning Officer

James J. Robinson
Executive Director and Secretary (non-voting)

FUNCTIONAL AREA DIRECTORS

Michele V. Manuel
Content Development & Dissemination

Amy J. Clarke
Membership & Student Development

Chester J. Van Tyne
Professional Development

Brad L. Boyce
Programming

John A. Howarter
Public & Governmental Affairs

TECHNICAL DIVISION DIRECTORS

Cynthia K. Belt
Extraction & Processing Division

Raymundo Arróyave
Functional Materials Division

Alan A. Luo
Light Metals Division

Corbett C. Battaile
Materials Processing & Manufacturing Division

Ellen K. Cerreta
Structural Materials Division

Summary of Operations Revenues and Expenses

REVENUE

| | |
|-------------------------------|--------------------|
| Membership & Customer Service | \$522,030 |
| Content | \$2,905,938 |
| Events, Education & Exhibits | \$4,281,040 |
| Volunteer Support | \$1,200 |
| Marketing & Communications | \$57,227 |
| NIScE | \$268,362 |
| Executive & Operations | \$322,125 |
| TOTAL REVENUES | \$8,357,922 |

EXPENSES

| | |
|-------------------------------|--------------------|
| Membership & Customer Service | \$299,018 |
| Content | \$926,966 |
| Events, Education & Exhibits | \$2,727,115 |
| Volunteer Support | \$757,500 |
| Marketing & Communications | \$415,087 |
| NIScE | \$679,455 |
| Executive & Operations | \$2,048,800 |
| TOTAL EXPENSES | \$7,853,941 |

| | |
|----------------------------------|------------------|
| EXCESS OPERATIONS REVENUE | \$503,981 |
|----------------------------------|------------------|

