

# 2017 TMS ANNUAL REPORT

## *A YEAR OF GROWTH*



[www.tms.org](http://www.tms.org)

# TMS

## A LETTER FROM TMS LEADERSHIP

Dear TMS Members,

Our Society experienced growth in a number of areas in 2017. This included both steady gains, such as a 3.5% increase in the number of our professional members, as well as dramatic ones, like the record-breaking TMS 2017 Annual Meeting & Exhibition (TMS2017). This growth is reflected in both the statistical charts and the financial numbers you'll find in this report.

Our success is no accident, but is instead the direct result of planning, flexibility, and foresight by our Board of Directors, volunteers, and staff in developing and then adjusting plans as opportunities have presented themselves. We have been strategic in the management of our resources, and it shows in our results for the year.

Read on to learn more about our financial results, set in the context of our Society's accomplishments from the 2017 calendar year.

Sincerely,



*David H. DeYoung*

David H. DeYoung,  
2017 TMS President



*James J. Robinson*

James J. Robinson,  
TMS Executive Director

## 2017 TMS ACTIVITY HIGHLIGHTS

### MOBILE-FRIENDLY TMS WEBSITE

One of our largest Society projects for the year was the launch of the totally overhauled, mobile-friendly TMS website in the spring of 2017. By now, members have become accustomed to the look and functionality of our new online home, which concisely highlights areas of importance to TMS members. We have divided this 2017 review into the same main categories you'll find on the website.

### MEMBERSHIP

In 2017, we asked our members to define TMS using a single word. Though our membership is made up of professionals and students from a variety of backgrounds and technical interests, the words they selected showed significant common ground. The overall results of the survey were summarized in a word cloud that offers a visual snapshot of TMS membership built from our members' words.



### MEETINGS & EVENTS

TMS2017, held in San Diego, California, broke attendance records with a total of 4,642 attendees, making it the best-attended conference in TMS Annual Meeting history. TMS2017 also hosted the 3rd Pan American Materials Congress (co-organized by nine materials societies from North and South America) and Energy Materials 2017 (co-organized by TMS and The Chinese Society for Metals), establishing a model for co-locating international conferences with the TMS Annual Meeting.



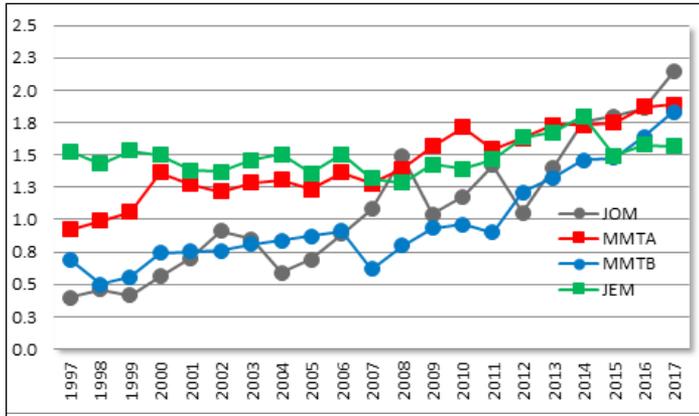
With more than 3,200 attendees, Materials Science & Technology 2017 (MS&T17) in Pittsburgh, Pennsylvania, was also one of the best-attended MS&T conferences. The MS&T series is organized by TMS and three partner societies.

In addition, TMS participated in the following specialty conferences, in which the society had ownership, sponsorship, and/or management interest:



## PUBLICATIONS

The impact factors for TMS's long-established journals have generally been on the rise, demonstrating the growing influence of TMS publications. The chart below shows the progress of these impact factors for *JOM*, *Metallurgical and Materials Transactions A (MMTA)*, *Metallurgical and Materials Transactions B (MMTB)*, and *Journal of Electronic Materials (JEM)*.

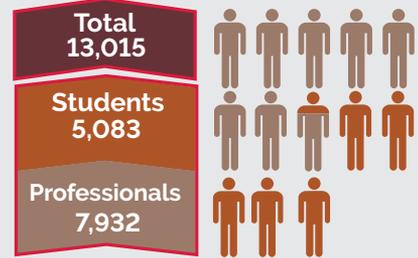


TMS released a new study, *Building a Materials Data Infrastructure: Opening New Pathways to Discovery and Innovation in Science and Engineering*, conducted on behalf of the U.S. National Science Foundation, and began work on a second report, *Harnessing Materials Innovations to Support Next Generation Manufacturing Technologies*, organized on behalf of the Alliance for Manufacturing Foresight (MFOresight). Funding was also received to begin three new studies, as TMS continues to grow its leadership in the area of developing impactful technical reports for the community.

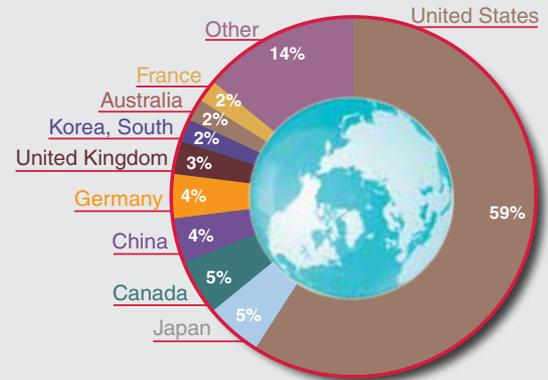


## WHO WE ARE

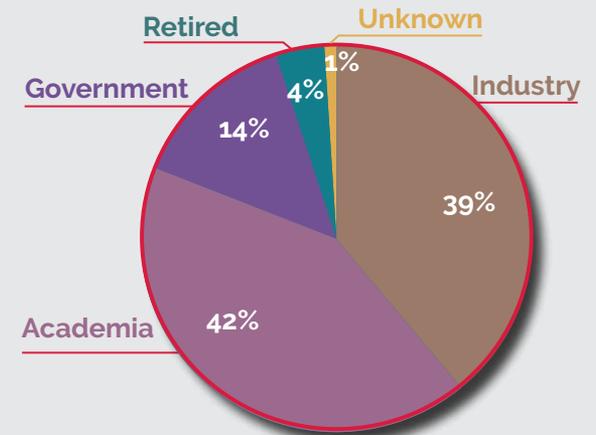
### OUR MEMBERSHIP TOTALS



### WHERE OUR MEMBERS LIVE



### WHERE OUR MEMBERS WORK



## PROFESSIONAL DEVELOPMENT

The Society offered opportunities for scientists and engineers to enhance their skills with stand-alone courses held at various sites throughout the world. (See listing, right.) Nine professional development courses were also held in conjunction with other TMS meetings.

The TMS awards program also took steps toward growth and change. To ensure greater diversity in its most esteemed class of award winners, the TMS Fellows, TMS established a pair of committees to put guidelines in place that encourage a broader pool of applicants.

## 2017 PROFESSIONAL DEVELOPMENT COURSES



**ALUMINUM CAST SHOP**  
Science and Technology Course



**INDUSTRIAL ALUMINUM ELECTROLYSIS**  
Course on Theory and Practice



**ANODE TECHNOLOGY**  
for the Aluminum Industry Course



**CONTROL OF POTLINE SCRUBBER & FUGITIVE EMISSIONS**  
for Aluminum Smelters Course



**METALLURGICAL AND MATERIALS ENGINEERING PROFESSIONAL ENGINEER (PE) LICENSING EXAM REVIEW COURSE**

# 2017 TMS ACTIVITY HIGHLIGHTS

## OUTREACH

TMS reached out to younger members of our community, holding a Bladesmithing Competition for university students at TMS2017 and piloting the *Materials Explorers™* outreach program focused on exposing early high school students to real-world application of science and math concepts.

## DIVISIONS & COMMITTEES

TMS's attainment of its mission is fueled by its volunteer members, who work in five technical divisions, more than 35 technical committees, and more than 20 functional committees to develop programming, publications, and other society activities. At the top of the volunteer structure is the TMS Board of Directors.

## 2017 TMS BOARD OF DIRECTORS

### OFFICERS

**David H. DeYoung**  
President

**Kevin J. Hemker**  
Vice President

**Stanley M. Howard**  
Past President

**Joy Forsmark**  
Financial Planning Officer

**James J. Robinson**  
Executive Director  
(non-voting)

### FUNCTIONAL AREA DIRECTORS

**Michele V. Manuel**  
Content Development & Dissemination

**Amy J. Clarke**  
Membership & Student Development

**Chester J. Van Tyne**  
Professional Development

**Srinivas Chada**  
Programming

**John A. Howarter**  
Public & Governmental Affairs

### TECHNICAL DIVISION DIRECTORS

**Cynthia K. Belt**  
Extraction & Processing Division

**Raymundo Arróyave**  
Functional Materials Division

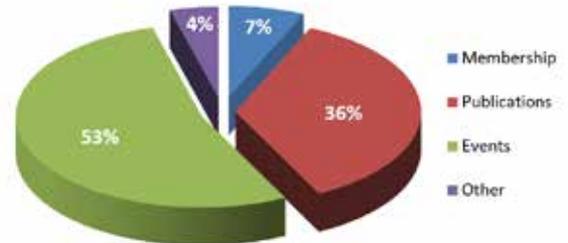
**Alan A. Luo**  
Light Metals Division

**Corbett C. Battaile**  
Materials Processing & Manufacturing Division

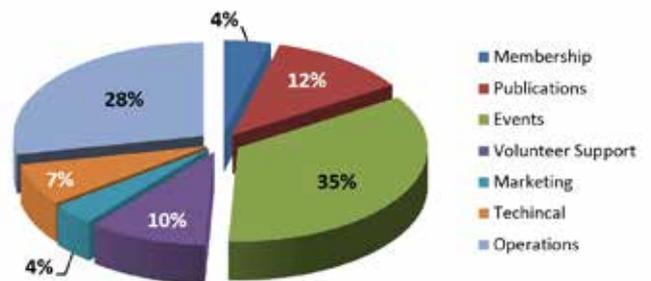
**Ellen K. Cerreta**  
Structural Materials Division

# TMS 2017 FINANCIAL REVIEW

## 2017 Operating Revenues by Program Area



## 2017 Operating Expenses by Program Area



## Summary of Operations Revenues and Expenses

REVENUE	% Total	
Membership	7%	\$601,462
Publications	36%	\$2,836,722
Events	53%	\$4,142,337
Other	4%	\$335,519
<b>TOTAL REVENUES</b>		<b>\$7,916,040</b>

EXPENSES	% Total	
Membership	4%	\$301,701
Publications	12%	\$879,195
Events	35%	\$2,566,141
Volunteer Support	10%	\$741,254
Marketing	4%	\$276,276
Technical	7%	\$531,427
Operations	28%	\$2,111,196
<b>TOTAL EXPENSES</b>		<b>\$7,407,190</b>

