“There are many keys to success for an organization, but few are as important as growth.”
Board Chair Letter

Dynamic Growth

There are many keys to success for an organization, but few are as important as growth. ASTM International has always been able to adapt and grow to fit the changing world around us. In 2019, we saw dynamic growth throughout our committees, in our new ventures and international partnerships, across our offerings, and even in our own global headquarters.

Last year we launched ASTM International’s first-ever chapter, in the United Arab Emirates. The chapter supports growing UAE involvement in standards activities and events. We also signed a technical cooperation agreement with CEN, the European Committee for Standardization, which created a framework for cooperation and information exchange.

Katharine Morgan signed the United Nations Economic Commission for Europe’s Declaration on Gender Responsive Standards and Standards Development, which supports growth toward gender balance in standards development activities. And we debuted a new “Women in Standards” video to showcase the growing number of women who contribute their voice and expertise to the development of technical standards.

There are many more examples of how ASTM International standards grew in emerging areas of need in 2019, from commercial spaceflight to recovered carbon black to drones. As you will discover in this year’s report, our efforts to grow:

– Support environmental safeguards for the world around us,
– Empower consumers to find confidence in the products they use every day,
– Drive patient health and safety,
– Protect those who keep us safe, and much more.

We’ve seen growth in our Emerging Professionals program, which reached a milestone in 2019. We’ve grown our member training tools and developed exciting videos for new and prospective members. We’ve expanded our offerings to ensure our members and customers can utilize products such as Compass and other collaboration tools. Within the walls of our global headquarters, we’ve grown our staff and renovated our lobby to provide new meeting space.

In 2019, we met the evolving needs of a dynamic world. We did it together. ASTM International’s ability to adapt and grow has always been a testament to the hard work of our global members, partners, and staff. We hope you enjoy reading about these contributions and the many others that follow in these pages.
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Safety in Nuclear Facilities
Members of the nuclear technology and applications committee (E10) approved a standard that aims to help protect workers and property at nuclear facilities. The standard provides guidance on permanent foam coatings that reduce migration of contamination, resuspension of contamination in the air, and speed of contamination from external forces.

Radiological Decontamination
Committee members also developed a new standard that will allow for testing the efficiency of radiological decontamination methods. The standard helps evaluate contamination on surfaces including concrete, marble, brick, stainless steel, and aluminum.
Characterizing Risk at Contaminated Sites

A new standard from the environmental assessment, risk management, and corrective action committee (E50) will help characterize the health of mammals living in soil-contaminated properties, such as hazardous waste sites. The standard uses three sperm parameters that serve as barometers of reproductive success.

First Recovered Carbon Black Standard

Members of the recovered carbon black committee (D36), formed in 2017, approved their first standard. The standard defines important terms in the recovered carbon black industry.

Oil Spill Prediction and Cleanup

A new standard approved by the hazardous substances and oil spill response committee (F20) will support contingency plans and management of oil spills. The new guide will standardize the way laboratories prepare and measure weathered oil.
Growth drives innovation.

“Remote ID” for Drones
The unmanned aircraft systems committee (F38) approved a standard that seeks to help identify and track drones in airspace systems worldwide. Similar to the function of a car license plate, the standard supports technology that allows the public and public safety officials to identify a drone using an assigned designation.

Drone MOU with GUTMA
ASTM International signed a Memorandum of Understanding with the Global Unmanned Traffic Management Association (GUTMA) aimed at helping air traffic managers leverage standards to integrate drones into airspace systems worldwide.

Technical Report on Drones, Autonomy in Aviation
ASTM International published its first-ever technical report, a guide that provides a framework for terminology for autonomous and complex aviation systems.

The document incorporates the expertise of ASTM International committees and members who have developed hundreds of technical standards for general aviation aircraft, light sport aircraft, aircraft systems, and drones.
First Commercial Spaceflight Standard
Members of the commercial spaceflight committee (F47) approved their first technical standard. The new guide covers fundamental safeguards for storing, using, and handling liquid rocket propellants.

Exo Technology Center of Excellence
ASTM International launched the Exo Technology Center of Excellence, which will support standards-focused research and related activities that help accelerate innovation in the emerging exoskeletons and exosuits industry.

Exoskeleton Report was selected to spearhead efforts to advance technical standards, related R&D, workforce training and education, and more.

ASTM International will coordinate funding for research projects as well as in-kind and other support from industry, governments, and other partners and stakeholders.

Second Round of Funding for Additive Manufacturing Center of Excellence
A year after the launch of the Additive Manufacturing Center of Excellence, ASTM International announced a second round of R&D funding aimed at developing additive manufacturing standards.

The nine projects targeted standardization gaps. Projects involved Auburn University, NASA, EWI, UK-based Manufacturing Technology Centre (MTC), Singapore’s National Additive Manufacturing Innovation Cluster (NAMIC), and Wichita State University’s National Institute for Aviation Research (NIAR).

ASTM International Partners with Innovate UK
ASTM International and three United Kingdom-based entities partnered to fast-track the creation of technical standards in additive manufacturing. MTC, Innovate UK, and the British Standards Institution (BSI) identified three areas focused on direct energy deposition.

Additive Manufacturing Partnership with TÜV SÜD
ASTM International and TÜV SÜD, a German testing and certification organization, signed a memorandum of understanding to develop programs aimed at speeding adoption of and trust in additive manufacturing (AM) technologies.
Supporting dynamic global growth

MOU Program Grows to 114
In 2019, ASTM International’s Memorandum of Understanding (MOU) program continued to grow with new MOUs signed with national standards bodies in Uzbekistan and Belarus, and with a regional organization, Arab Industrial Development & Mining Organization in Morocco.

As a result of these agreements and global participation across technical committees, ASTM International standards have been cited nearly 8,000 times worldwide. The MOU program supports the use of ASTM International standards while also encouraging global participation in creating and revising standards.

Global Membership Growth
ASTM International’s non-U.S. membership grew 4%, surpassing 6,000 international members. This included 14% growth in the Middle East and 8.5% growth in Europe. ASTM International’s membership growth was driven, in part, by interest in areas such as additive manufacturing, drones, exoskeletons, and cannabis.

Visiting Experts Program
The Standards Experts Program hosted representatives from the Guyana National Bureau of Standards (GNBS), Standards Organisation of Nigeria (SON), and Metrology and Inspection (BSMI) in Taiwan.

Technical Visitor Grant Program
In the Technical Visitor Grant Program, ASTM International was joined by an expert from the Saudi Standards, Metrology and Quality Organization (SASO) and another from PetroEcuador.
First Ever Chapter in the Middle East
ASTM International launched its first ever chapter, in the United Arab Emirates (UAE). The chapter will increase UAE involvement in standards-related activities and events, including those focused on the region’s specific needs. Meetings and events will further develop collaboration, deepen technical understanding, reach out to university students, and advance emerging technologies and innovation.

Korean Attachment at ASTM International HQ
Jaeuk Ahn from the Korean Agency for Technology and Standards (KATS) began a yearlong attachment at ASTM International headquarters. Jaeuk focused on standards development and innovative technology.

Technical Cooperation Agreement with CEN
ASTM International signed a Technical Cooperation Agreement with CEN, the European Committee for Standardization. The agreement established a pilot framework for technical cooperation and information exchange on bio based products, plastics, recovered carbon black, rubber, and rubber-like materials.

ASTM President Signs Gender Responsive Declaration
Katharine Morgan, ASTM International president, signed the United Nations Economic Commission for Europe’s Declaration on Gender Responsive Standards and Standards Development. The effort, linked to the U.N. Sustainable Development Goals, focuses on improving gender balance in standards development activities as well as ensuring that content of standards is gender responsive.
New Hayride Standard
A new standard from the amusement rides and devices committee (F24) provides requirements for hayride attractions meant for entertainment, recreation, or agritourism. The standard covers many aspects of hayrides, including operations, safety, design, maintenance, and documentation.
**Portable Fuel Containers**
A new standard from the consumer products committee (F15) aims to improve the safety of portable fuel containers by requiring the addition of a flame mitigation device. The standard describes requirements for the device and four test methods.

**Smell, Taste, and Touch of Products**
A standard created by the sensory evaluation committee (E18) will help companies determine key characteristics of products using small groups of people. The standard aims to ensure that the sensory evaluation process has sufficient rigor and minimal bias.

**Safety of Liquid Consumer Products**
Members of the primary barrier packaging committee (F02) approved a standard aimed at supporting the safety of liquid consumer products by testing flow restrictors that help prevent children’s access. The standard uses mechanical testing to simulate common ways young children can gain access to potentially harmful liquid products.

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In 2019, ASTM international published four colorful infographics in *Standardization News* covering baby safety at home, standards for sports equipment, snow and ski equipment, and amusement ride safety.
Growth supports health and safety.
Cannabis Standards
Members of the cannabis committee (D37) approved a variety of standards aimed at supporting safety and efficiency:
- Cannabis facility cleaning procedures
- Processing and handling of cannabis products
- Identifying and preventing cannabis production hazards
- Corrective action/preventive action program
- Developing and maintaining cannabis product complaint system

Nanotechnology in Drug Development
A new standard from the nanotechnology committee (E56) aims to help ensure quality control when developing drugs, including some that have the potential to be less toxic and more targeted. The standard provides a recipe for determining the structure of a liposome nanomaterial.

Isolation Gowns
Members of the personal protective clothing and equipment committee (F23) approved a standard for hospital isolation gowns. The standard outlines testing, reporting, performance, and labeling requirements for those who make and use the gowns.

Surgical Implant Safety
A new standard from the committee on medical and surgical materials and devices (F04) seeks to help determine surgical implant safety and prevent potentially adverse effects on patients. The test method is used to assess the release of metal and other ions from single-use, metallic, implantable medical devices and components.

Spinal Implant Inspection
Members of the committee also approved a standard aimed at helping manufacturers of surgical implants inspect their products for potential mechanical failure. The standard will help ensure users inspect spinal implants in the same way before and after testing.

Evaluating Medical Device Brushes
The committee also approved two standards that help describe methods for characterizing the performance of brush parts that clean medical devices. Both standards describe how motorized test standards are used to eliminate the human element in testing, allowing for reproducibility.

Medical Device Cleaning Guide
Members of the committee also approved the third in a series of standards that help evaluate effective cleaning procedures for medical devices. The guide focuses on extraction of test soils to validate cleaning methods.
Growth benefits public safety.
Metal Detector Assessment
A new standard from the security systems and equipment committee (F12) establishes conformity assessment requirements for metal detectors used in safety and security. The new standard is based on baseline performance requirements and associated test methods described in two existing metal detector standards.

Bulletproof Police Vehicle Doors
Members of the homeland security applications committee (E54) approved a standard for ballistic-resistant car door panels. The specification aims to enhance the safety of law-enforcement officers by standardizing protection levels and test methods. The standard also aims to simplify the procurement process.

Forensic Science Lab Training
A new standard from the forensic sciences committee (E30) provides a basic framework for training, continuing education, and professional development of forensic science practitioners. The standard aims to help professionals achieve and maintain competency in various disciplines.

Correctional Facility Security Fencing
Members of the detention and correctional facilities committee (F33) approved a new standard aimed at making correctional facilities safer and more cost-effective. The standard incorporates topics such as electrical pulses, design, and control systems.
Growth inspires the next generation.

100 Emerging Professionals Trained
ASTM International trained its 100th Emerging Professional in 2019. Launched in 2015, the program equips members from companies, industries, and academia who represent organizations that rely on technical standards. Participants receive financial support to attend committee meetings where they receive one-on-one mentoring, leadership training, and an introduction to standards. Participants represent 12 countries and 85 committees. Already, they hold 47 subcommittee positions and have registered 147 work items to date. They have received 14 awards, and 16 emerging professionals serve as committee officers and one is on the organization-wide Committee on Technical Committee Operations.

New Member Training Tools
ASTM International launched a new suite of member training tools and guides to support onboarding. These include:
- Infographics on balloting, standards, and committee structure,
- New member orientation videos,
- Training recommendations,
- A member benefit checklist,
- An executive toolkit, and more.

Empowering Tomorrow’s Leaders
ASTM International boasts roughly 5,000 student members and offers several scholarships and grant opportunities each year. In 2019, four $10,000 scholarships were awarded to these deserving graduate students.

Somnath Mandal is a Ph.D. candidate at the University of California Irvine studying materials science and engineering. He is a member of the refractories committee (C08).

Phillip Iaccarino is a graduate student at Stony Brook University studying chemical and molecular engineering. He is a member and interlaboratory study contributor in the petroleum products, liquid fuels, and lubricants committee (D02).
Tricia Stano is working toward an MBA at Stony Brook University and is a member of the committee on petroleum products, liquid fuels, and lubricants (D02), and a subcommittee secretary.

Tuhin Das is a Ph.D. candidate at McGill University studying materials engineering. He is a member of the committees on aerospace and aircraft (F07) and fasteners (F16).

Videos for New and Prospective Members

Two videos were developed to help new or prospective members understand ASTM International membership.

1. “How Our Meetings Work” offers insight into the world of an ASTM International meeting, including understanding balloting, revisions, and more.

2. “Every Member Has a Voice” highlights the many benefits of ASTM International membership as described by members themselves.
Growing our products and services

Compass®

For ASTM Compass, 2019 brought many enhancements to help our members and customers continue using our leading platform for ASTM and other related publishers. Highlights included:

– The search results became cleaner and more organized. In the past, a search for a single standard brought multiple results. Now when users search for a standard, Compass condenses information: all versions (active and historical), translated standards, and work items are in a collapsed, single search result.

– Added WalkMe, a form of artificial intelligence that will answer users’ questions, highlight how to use Compass tools, and provide an alert when an update has been made to the platform.

– Redesigned the login page, which delivers a user sign-in location and easy access for the academic community.

– Added landing pages, including one dedicated to compilations and one to volumes.
SpecBuilder/Member and Its Collaboration Tools

SpecBuilder and the collaboration tools continue to grow as the place to build consensus standards and specifications for both customers and members. As more customers and committees move to collaborate using SpecBuilder and the Member Collaboration Area, ASTM continues to aggregate feedback. As a result, several enhancements and upgrades to the platform were released, including, customized voter roles, classification labels, parent groups and subgroups, and a detailed support page.

Voice of the Customer/Member

Customer visits
Staff gathered valuable feedback at engineering-focused events and through customer visits around the globe. This will help improve Compass® with new features in the coming years.

Surveys
A survey went out to all Compass users (members and customers) asking how ASTM is meeting their information needs. Survey results added to the organization’s understanding of how engineering and regulation managers use standards.

Councils
An International Product Advisory Council was held in April in Paris, France, with various industries. Interactive sessions such as industry trends discussion, design and functionality critiques, and usability testing took place. With these findings and further market research, ASTM can continue to identify the top pain points and needs for products like Compass.

Membership
ASTM started redesigning and streamlining the way members interact with each other and with ASTM to develop standards. This multi-year, multi-phase project will enhance and update member renewal, roster maintenance, committee and member management, and more. This overhaul is based on feedback from members.
Books and Journals

ASTM International’s books and journals continued to grow with healthy interest from contributors around the world. ASTM International’s five active journals are published on the ASTM website and in Compass® for quick dissemination and ease of discovery. Publishing online also allows for the inclusion of color, links to ASTM standards, and videos.

The journals are included in prestigious indexes such as the Web of Science, Scopus, Google Scholar, EiCompendex, Chemical Abstracts, Current Contents/Engineering Computing & Technology, and in library Discovery Tools such as EBSCO and ProQuest.

Integrated Services

In 2019, ASTM International nearly doubled its Integrated Services portfolio by working with four new organizations to migrate their content to Compass®. Three of those organizations developed customized Compass-powered subscription platforms for their users. ASTM developed an external self-serve web store for another partner.

Microlearning for a Better Learning Experience

With support from experts, ASTM International has created a microlibrary of bite-sized eLearning courses to support comprehension and application of standards. These courses accommodate modern learners by providing just-in-time information that’s easily accessible, targeted, and on-demand. The microlibrary has a vast collection of content in petroleum, construction, environment, mechanical testing, and metals. Course videos with subtitles in English and Spanish are available on Compass®.

ASTM International offered over 100 seminar courses (live and recorded) covering standards in such areas as gasoline, aviation fuel, corrosion, plastics, and Phase I environmental site assessment.

Symposia and Workshops

In 2019, more than 30 conferences, seminars, symposia, and workshops took place. Event topics included additive manufacturing, cannabis, performance of protective clothing and equipment, pesticides, safety in ice hockey, smart textiles, roofing, and zirconium in the nuclear industry. Symposia on air quality, fatigue and fracture, homeland security, masonry, stress waves, and more resulted in eight volumes of Selected Technical Papers.

Proficiency Testing Programs

Over 50 Proficiency Testing Programs (PTP) helped labs evaluate, improve, and document their performance in conducting test methods (in areas like petroleum, plastics, metals) when compared with other labs. More than 2,300 laboratories worldwide are involved in these statistical quality assurance programs that help labs meet quality and accreditation requirements. ASTM International received ISO 17043 accreditation for all of its PTP in 2019.
Safety Equipment Institute Grows

The Safety Equipment Institute (SEI) operates an independent program for testing and certifying thousands of innovative safety and protective products, from firefighter and baseball helmets to worker’s boots and protective eyewear. SEI works with manufacturers as well as independent laboratories and quality-assurance auditors to certify products to performance standards for products used by consumers, fire and emergency services personnel, general industry workers, and law enforcement officers.

In 2019, the list of SEI-certified products continued to grow with the addition of new standards for recreational products and law enforcement.

In addition, the USDA BioPreferred Certification Program, administered by SEI, certified 369 products, added more than 50 companies, and received nearly 200 new applications. The program topped 3,500 certified products.

CCRL

The Cement and Concrete Reference Laboratory (CCRL) program continued to improve construction materials testing through lab assessments, proficiency testing samples, instruction, guidance, and clarification of standards.

CCRL’s Laboratory Inspection Program provides evidence of a laboratory’s ability to perform test methods. For 2019, the overall program grew to include over 1,600 labs in concrete, concrete aggregates, steel-reinforcing bars, cement, pozzolan, slag cement, and masonry products.

CCRL’s Proficiency Sample Program helped laboratories compare their results with other labs by testing samples of the same material. In 2019, this program shipped over 21,500 boxes (455 tons) to 1,750 laboratories worldwide.

TMC

Passenger car reference oil testing activity remained strong in 2019. The Test Monitoring Center’s deployment of the new dexosESubmission website has been completed, allowing original formulations, blenders, and re-branders to submit GM Dexos® approvals packets.

The center provides worldwide calibration services for more than 45 ASTM test methods used to evaluate automotive lubricants. Reference oil distribution, test stand calibration, and laboratory visits form the core of the center’s mission under the automotive lubricants subcommittee of the petroleum products, liquid fuels, and lubricants committee (D02).
Empowering a culture of growth

“Women in Standards” Video
To highlight the growing number of women who contribute to technical standards, ASTM International debuted its “Women in Standards” video. The video went viral with more than 21,000 views. ASTM President Katharine Morgan and four members discuss the importance of gender diversity in standards development.
LinkedIn Learning
ASTM International staff took LinkedIn Learning courses on a variety of relevant topics to encourage educational advancement throughout the organization. ASTM first subscribed to LinkedIn Learning in 2019.

Growing Staff
In 2019, ASTM International hired 34 new employees to meet growing needs. These employees represent a variety of departments. Affiliates and collaborators, such as CCRL, also hired new employees.

Hygiene Kits
Dozens of ASTM International global headquarters staff volunteered to pack more than 300 hygiene kits for children and families affected by poverty, homelessness, or natural disasters. Each kit included personal care products and a note of encouragement written by a staff member.

Staff-Driven Philanthropy
ASTM International supported many staff-driven efforts in 2019 to raise funds for organizations near its various offices, including Girls on the Run, Alzheimer’s Association, Special Olympics, Cystic Fibrosis Foundation, and many more.

Cradles to Crayons
ASTM International staff had the chance to visit Cradles to Crayons Philadelphia and assist in packing toys and clothes, separating clothing for storage, and preparing items for backpacks for the 2019-2020 school year. Cradles to Crayons serves over 245,000 children each year.

In 2019, renovations continued at ASTM International’s global headquarters. Enhancements to the lobby included new meeting spaces, additional security features, a new welcome desk, and a new interactive welcome screen.
Recognizing personal growth

2019 Award of Merit Winners

The prestigious Award of Merit, which includes the accompanying title of fellow, is ASTM International’s highest recognition for individual contributions to developing standards.

Barbara E. Andree  
Forensic Sciences (E30)

Annemarie Appleton  
Steel, Stainless Steel, and Related Alloys (A01)

John R. Bault  
Pedestrian/Walkway Safety and Footwear (F13)

Mark A. Clark  
Plastic Piping Systems (F17)

Steven D. Corrado  
Personal Protective Clothing and Equipment (F23)

Carl Dekker  
Additive Manufacturing Technologies (F42)

Frank P. DiSanzo  
Petroleum Products, Liquid Fuels, and Lubricants (D02)

Edward R. Eaton Sr.  
Engine Coolants and Related Fluids (D15)

Frederick S. Gelfant  
Paint and Related Coatings, Materials, and Applications (D01)

Amy V. Germaine  
Soil and Rock (D18)

Mike Horton  
Corrosion of Metals (G01)

David L. Howland  
Tires (F09)

Richard D. Ladwig  
Gypsum and Related Building Materials and Systems (C11)

Mel C. Marshall  
Concrete Pipe (C13)

Kent P. Von Maubeuge  
Geosynthetics (D35)

Kevin Menke  
Fasteners (F16)

John A. Mitchell  
Pesticides, Antimicrobials, and Alternative Control Agents (E35)

Ralph M. Paroli  
Roofing and Waterproofing (D08)

Horace Pops  
Copper and Copper Alloys (B05)

Adam J. Sawicki  
Composite Materials (D30)

James L. Seay  
Amusement Rides and Devices (F24)

J. Phillip Smith  
Environmental Assessment, Risk Management, and Corrective Action (E50)

Steve Sprague  
Magnetic Properties (A06)
John K. Stieha  
Plastics (D20)

Lawrence L. Sutter  
Concrete and Concrete Aggregates (C09)

Thomas Szymanski  
Catalysts (D32)

Dale R. Wahliquist  
Nuclear Fuel Cycle (C26)

Douglas N. Wells  
Fatigue and Fracture (E08)

George R. Wilson  
Petroleum Products, Liquid Fuels, and Lubricants (D02)

Terry O. Woods  
Medical and Surgical Materials and Devices (F04)

Yuhong Zhang  
Aromatic, Industry, Specialty, and Related Chemicals (D16)

W.T. Cavanaugh Memorial Award

This prestigious award is given in honor of ASTM International’s former CEO, who served in that role from 1970 to 1985.

Harvey P. Hack, Ph.D., Northrup Grumman fellow with Northrop Grumman’s Undersea Systems, was honored for his protracted and meritorious service in the ASTM International’s corrosion (G01) and additive manufacturing technologies (F42) committees. His work has led directly to the development of high-quality and market-responsive standards used to enhance the global relevance of the markets they serve.

Hack has been a member of ASTM International since 1978 and served on the board of directors from 1995 to 2002, including his term as chair in 2000.

James A. Thomas President’s Leadership Award

This award recognizes individuals early in their ASTM International career who have advanced the organization’s mission through extraordinary accomplishment, example, and vision.

Aaron Craft is a research scientist with the Idaho National Laboratory in Idaho Falls (Idaho, USA), and member of the nondestructive testing committee (E07).

Chris Noveral is a senior mechanical engineer, design and engineering, with Walt Disney Parks and Resorts in Lake Buena Vista (Florida, USA), and member of the amusement rides and devices committee (F24).
Below is a summary of ASTM International’s 2019 and 2018 Financial Results. Please contact the Communications department if you are interested in the full audit report from EisnerAmper LLP.

**Consolidated Statements of Financial Position**
December 31, 2019 and 2018

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>2019</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$10,078,470</td>
<td>$5,988,338</td>
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<td>Accounts receivable, less allowance for doubtful accounts of $125,000 in 2019 and 2018</td>
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<td>General investment fund</td>
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<td>Committee funds</td>
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<tr>
<td>Other</td>
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<tr>
<td>Inventories</td>
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<td>Property and equipment, net</td>
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<td>Prepaid pension asset</td>
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<td>Other assets</td>
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<td>917,126</td>
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<td><strong>Total assets</strong></td>
<td><strong>$398,612,501</strong></td>
<td><strong>$342,894,493</strong></td>
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<tr>
<th>LIABILITIES</th>
<th>2019</th>
<th>2018</th>
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<tr>
<td>Accounts payable and accrued liabilities</td>
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<td>Deferred income</td>
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<td>Pension liability</td>
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<td>Postretirement benefit liability</td>
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<td>Other liabilities</td>
<td>665,000</td>
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<table>
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<tr>
<th>NET ASSETS</th>
<th>2019</th>
<th>2018</th>
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<tr>
<td>Without donor restriction:</td>
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<tr>
<td>Undesignated</td>
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<td>Designated - general</td>
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<td><strong>Total net assets</strong></td>
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<tr>
<td>With donor restriction</td>
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<td><strong>370,385,166</strong></td>
<td><strong>317,218,427</strong></td>
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<tr>
<td><strong>Total net assets</strong></td>
<td><strong>$398,612,501</strong></td>
<td><strong>$342,894,493</strong></td>
</tr>
</tbody>
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Consolidated Statements of Activities
Years ended December 31, 2019 and 2018

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<thead>
<tr>
<th>Operating revenues:</th>
<th>2019</th>
<th>2018</th>
</tr>
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<tr>
<td>Publication sales</td>
<td>$ 64,435,927</td>
<td>$ 60,701,648</td>
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<td>Laboratory services</td>
<td>21,761,763</td>
<td>21,704,139</td>
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<tr>
<td>Interest and dividends</td>
<td>5,404,988</td>
<td>4,612,744</td>
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<tr>
<td>Members’ administrative fees</td>
<td>2,163,110</td>
<td>2,174,514</td>
</tr>
<tr>
<td>Licensee income</td>
<td>57,664</td>
<td>—</td>
</tr>
<tr>
<td>Technical and professional</td>
<td>2,540,548</td>
<td>2,602,465</td>
</tr>
<tr>
<td>training and symposia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>workshops</td>
<td>119,929</td>
<td>204,798</td>
</tr>
<tr>
<td>Contributions</td>
<td>555,359</td>
<td>417,333</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net assets released from</td>
<td>97,039,288</td>
<td>92,417,641</td>
</tr>
<tr>
<td>restrictions</td>
<td>1,444,640</td>
<td>5,354,170</td>
</tr>
<tr>
<td>Total operating revenues</td>
<td>98,483,928</td>
<td>97,771,811</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating expenses:</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Society office</td>
<td>57,885,527</td>
<td>50,791,355</td>
</tr>
<tr>
<td>Cost of publications</td>
<td>5,801,862</td>
<td>6,781,569</td>
</tr>
<tr>
<td>Building occupancy</td>
<td>6,542,776</td>
<td>6,137,563</td>
</tr>
<tr>
<td>Administrative</td>
<td>3,149,853</td>
<td>3,026,565</td>
</tr>
<tr>
<td>Licensee expense</td>
<td>1,607,662</td>
<td>1,262,607</td>
</tr>
<tr>
<td>Laboratory services</td>
<td>7,769,638</td>
<td>7,781,458</td>
</tr>
<tr>
<td>Technical and professional</td>
<td>1,350,309</td>
<td>1,036,305</td>
</tr>
<tr>
<td>training and symposia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>workshops</td>
<td>1,444,640</td>
<td>5,354,170</td>
</tr>
<tr>
<td>Total operating expenses</td>
<td>85,552,267</td>
<td>82,171,592</td>
</tr>
<tr>
<td>Excess of operating revenues</td>
<td>12,931,661</td>
<td>15,600,219</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nonoperating revenues</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board meeting - outside</td>
<td>(310,947)</td>
<td>(449,839)</td>
</tr>
<tr>
<td>headquarters expense</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legal, copyright and strategy</td>
<td>(1,096,223)</td>
<td>(253,696)</td>
</tr>
<tr>
<td>Asia strategy</td>
<td>104,672</td>
<td>—</td>
</tr>
<tr>
<td>Advanced manufacturing</td>
<td>(156,447)</td>
<td>—</td>
</tr>
<tr>
<td>Net realized gains on sale</td>
<td>5,488,951</td>
<td>12,663,489</td>
</tr>
<tr>
<td>of investments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net unrealized appreciation</td>
<td>39,122,007</td>
<td>(34,412,612)</td>
</tr>
<tr>
<td>(depreciation) in fair value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>of investments</td>
<td>(2,918,533)</td>
<td>(10,083,871)</td>
</tr>
<tr>
<td>Pension and postretirement</td>
<td>40,024,136</td>
<td>(32,536,529)</td>
</tr>
<tr>
<td>benefit changes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total nonoperating revenues</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(expenses)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase (decrease) in net</td>
<td>52,955,797</td>
<td>(16,936,310)</td>
</tr>
<tr>
<td>assets without donor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>restriction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Changes in net assets</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research income</td>
<td>1,084,291</td>
<td>4,582,007</td>
</tr>
<tr>
<td>Contributions</td>
<td>510,045</td>
<td>540,619</td>
</tr>
<tr>
<td>Interest and dividends</td>
<td>50,436</td>
<td>45,153</td>
</tr>
<tr>
<td>Net realized gains (losses)</td>
<td>810</td>
<td>(1,641)</td>
</tr>
<tr>
<td>on sale of investments</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net unrealized appreciation</td>
<td>10,000</td>
<td>1,756</td>
</tr>
<tr>
<td>in fair value of investments</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,655,582</td>
<td>5,167,894</td>
</tr>
<tr>
<td>Net assets released from</td>
<td>(1,444,640)</td>
<td>(5,354,170)</td>
</tr>
<tr>
<td>restrictions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Increase (decrease) in net</td>
<td>210,942</td>
<td>(186,276)</td>
</tr>
<tr>
<td>assets with donor restrictions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changes in net assets</td>
<td>53,166,739</td>
<td>(17,122,586)</td>
</tr>
<tr>
<td>Net assets at beginning of</td>
<td>317,218,427</td>
<td>334,341,013</td>
</tr>
<tr>
<td>year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net assets at end of year</td>
<td>$ 370,385,166</td>
<td>$ 317,218,427</td>
</tr>
</tbody>
</table>
2019 Board of Directors

2019 Snapshot

159
New Standards

1,934
Revised Standards

13,000+
Active Standards

34,000+
Members Worldwide
Oliver S. Delery, Jr. passed away in January 2020. “Oliver was a treasured member of the ASTM International family and a respected leader and expert in construction and infrastructure,” said Katharine Morgan, ASTM International president. “He made invaluable contributions to his field and to the global standards community.”

Rebecca S. McDaniel passed away in May 2020. “Rebecca was a valued member of our ASTM International family and a well-respected expert on paving materials,” said Katharine Morgan, ASTM International president. “Her voice and expertise were recognized throughout Purdue University, the U.S. Federal Highway Administration, the paving industry, and the international standards community.”

Communications

ASTM International’s communication vehicles – Standardization News in print and online, social media, eNews, and video – reached thousands of members, customers, and others. In 2019, ASTM International’s combined impressions on Facebook, Twitter, and LinkedIn grew to 3.3 million:

LinkedIn: ↑35% to 27,000 followers
YouTube: ↑85% to 61,000 views
Committed to serving global societal needs, ASTM International positively impacts public health and safety, consumer confidence, and overall quality of life. We integrate consensus standards – developed with our international membership of volunteer technical experts – and innovative services to improve lives... Helping our world work better.

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