



ADVANCING STANDARDS
TRANSFORMING MARKETS

ANNUAL REPORT
2024

Transform

[GO.ASTM.ORG](https://www.astm.org)



Our Mission

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

Our Core Values

We welcome everyone to our open and global community of belonging where every voice is unique and every voice matters.

We collaborate to discover and deliver the best solutions through diversity of thought, open minds, and teamwork.

We innovate by embracing new possibilities, challenging ourselves, thinking boldly, driving change, and evolving as an organization.

We serve with passion, commitment, and integrity, striving to exceed the expectations of each other, our members, and all those who rely on us.

We believe in our ability to make a positive difference in people's lives through standards and services, helping our world work better.

Transform

For an organization to endure and thrive as long as ASTM International has, there must always be an element of transformation in that journey. While many of the principles that were constructed at our founding still exist and help guide us in the work we do every day, we are endlessly transforming to meet the needs and expectations of the world around us.

Many organizations may balk at the idea of transformation, but at ASTM it's ingrained in everything we do. We learn new ways to enhance our standards-development process to meet the demands of our stakeholders. We identify emerging areas and support the development of standards to enhance industry performance and build consumer confidence where they may not have previously existed. We seek out new ways to engage our members, partners, and stakeholders. We create new – and strengthen our existing – best-in-class offerings. Each day we find new opportunities to transform who we are and what we do.

In 2024, ASTM International underwent a brand refresh that helped to spotlight the evolution of the organization over the last decade. Building on our existing brand purpose statement “Helping our world work better,” we redefined our brand promise to include “Advancing Standards. Transforming Markets.” We use both statements to most effectively tell ASTM's story. It captures the essence of who we are and what we do, and it's a fun way for us to take ownership of the A-S-T-M acronym. We also addressed the visual side of our brand to reflect the shift towards more digitally led communications. You'll see elements of our sharpened, brightened, and simplified brand throughout this report.

As you'll soon discover reading through this report, 2024 was an active and engaged year for our organization. Our hardworking members developed standards and activities that:

- Championed consumer health and safety,
- Reinforced infrastructure and construction projects,
- Underpinned energy and environmental initiatives,
- Supported innovation, and much more.

As a result of this effort, 2024 saw the creation of 148 new standards and 1,706 revisions to existing ASTM standards.

Another example of transformative and active engagement can be seen in our global outreach efforts. Last year ASTM International received observer status from the United Nations in recognition of our global relevance and societal impact. Over the last year, we have successfully leveraged our status to contribute our standards-related knowledge to many important UN activities committed to improving lives through cleaner air, water, and living conditions.

Last year, we also saw the continued growth of our Emerging Professionals Program, with nearly 400 program graduates. These emerging professionals are actively transforming our organization by developing new proposed standards, filling hundreds of leadership positions within 119 different ASTM committees, and even serving on our Board of Directors. We also launched a new student chapter at Central Philippine University, with a focus on packaging and primary barrier packaging standards.

ASTM's best-in-class offerings saw continued growth, with a 125% increase in usage of online Selected Technical Papers, thanks in part to the ASTM Digital Library's transition to the Silverchair Platform.

ASTM International's commitment to transformation ensures we operate at the forefront of standards development and innovation. The robust achievements of 2024 are not only a testament to our members, partners, and staff, they also demonstrate the organization's commitment to advancing standards and transforming markets. We hope you enjoy this annual report and look forward to continued success for years to come.



Bill Griesse
2024 Chair
Tile Council of North America



Katharine E. Morgan
President, ASTM International



Andy Kireta Jr.
President, ASTM International
(as of May 1, 2024)

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2024 Snapshot

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Tile Council of North America

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National Urban Security Technology
Laboratory (NUSTL)

Amer Bin Ahmed

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CGC Inc.

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Department of Defense

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Clean Fuels Alliance America

Lindsey Hamill

Perdue Farms

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Cluster (NAMIC)

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Personal Care Products Council

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Vibram USA

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CemAI Inc.

PRESIDENT

Katharine E. Morgan

PRESIDENT (AS OF MAY 1, 2024)

Andrew G. Kireta Jr.

Construction and Infrastructure

Thermal Fusion Welding of Geomembranes

The geosynthetics committee (D35) has approved a new standard for the thermal fusion welding of geomembranes, which are used to control fluid migration in built projects, structures, and systems. The new standard (D8580) will provide guidance on how thermal welding machinery is used to weld geomembrane liners.

Thermal Insulation for High Temperature Industrial Applications

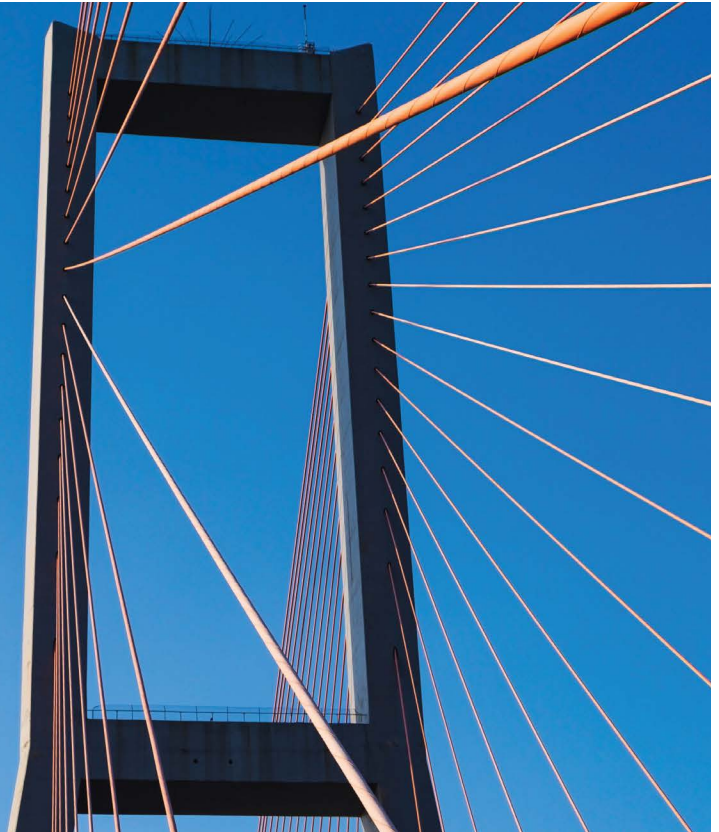
The thermal insulation committee (C16) has approved a new standard for layered, glass fiber felt pipe and board insulation. The material covered by the new standard (C1937) is used on surfaces with temperatures that range from ambient to 1400°F (760°C).

Wire Rods for Bridge Cable

The steel, stainless steel, and related alloys committee (A01) approved a new standard specifying wire rods used for bridge cable wire. The new standard (A1125) promotes the development of key basic materials for primarily suspension cables, stay cables, and slings in the key bearing parts of bridges.

Chrome Thickness Testing

The metallic and inorganic coatings committee (B08) has developed a standard (B1026) on measurement of chromium and chromium alloy thickness. This standard provides a new method for measuring trivalent chrome. As industry moves away from decorative hexavalent chrome, due to recent environmental regulation of PFAS/PFOS compounds in this plating type, equipment manufacturers, tier suppliers, and electroplaters are increasingly leaning into trivalent chrome plating as an alternative.

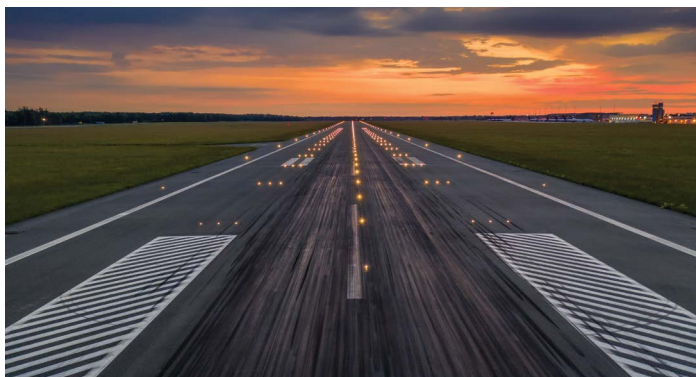


Performance Floor Patching and Skim Coating Compounds

The concrete and concrete aggregates committee (C09) approved a new standard (C1933) that will be used to evaluate the performance of floor patching and skim coating compounds. These compounds, which contain hydraulic cement, are used to improve the levelness, smoothness, and flatness of existing floors.

Thermoplastic Pavement Marking Materials

A new ASTM International standard (D8584) provides guidance for evaluating the quality and consistency of preformed thermoplastic pavement marking materials. Such materials are used to place interstate symbols and directional symbols in the middle of roads and airport runways, to designate pedestrian crossings, and to mark parking spaces, among other applications. ASTM's paint and related coatings, materials, and applications committee (D01) developed the new standard.



Nondestructive Evaluations of Coating/Lining Systems

A new ASTM International standard describes a practice for the nondestructive evaluation of newly applied and previously installed coating/lining systems using an acoustical sounding technique. ASTM's paint and related coatings, materials, and applications committee (D01) developed the new standard (D8555), which describes a procedure for lightly tapping the coating/lining using a non-sound dampening tool to detect relative differences in reflective sound, which may be an early indication of detachment from the substrate.

Required Materials for Dowel Bars

The composite materials committee (D30) approved a new standard that addresses material requirements for glass fiber reinforced polymer (GFRP) dowel bars used as load transfer devices in concrete paving. D8444 describes the use of non-corroding GFRP dowel bars in civil infrastructure, specifically highway and street paving, as well as in the presence of inductance loops or sensors used in high-speed tolling zones.

Property Resilience Assessment

The performance of buildings committee (E06) has approved a new standard that provides a generalized and systematic approach for conducting a property resilience assessment (PRA) on a voluntary basis. The new standard (E3429) will be useful to real estate investors, owners, operators, lenders, and insurers who wish to better understand the natural hazards that may affect a property, including those made more extreme by climate.

Consumer Safety

Pickleball Subcommittee Established

In response to pickleball's recent growth in popularity, the sports equipment, playing surfaces, and facilities committee (F08) established a new subcommittee on pickleball equipment and facilities. The subcommittee (F08.44) will develop test methods addressing all aspects of performance.

Eye Protector Standard Revised

The sports equipment, playing surfaces, and facilities committee (F08) has revised its standard on eye protectors for racket sports. The revised standard (F3164) now includes tests for eye protectors specifically used for pickleball.



Breathability of Infant Products

The consumer products committee (F15) has begun a new subcommittee on firmness and breathability of juvenile products (F15.12). The subcommittee was established to fulfill a need for testing specific to infant products. This subcommittee will support infant product development by providing test methods and guidance for manufacturers and labs.

Pole Vaulting Safety

A new standard addresses safety elements of pole-vaulting areas. The new standard (F3711) establishes safety, performance, and maintenance recommendations for indoor/outdoor, and private-use pole vault facilities. ASTM's sports equipment, playing surfaces, and facilities committee (F08) developed the new standard.

Grill Brushes

The consumer products committee (F15) has created a new subcommittee on grill brushes. The U.S. Consumer Product Safety Commission (CPSC) requested that ASTM consider this subcommittee (F15.04) after reviewing more than 100 injuries associated with grill brushes. Incident data studied by the CPSC indicated that ingestion of wire from grill brushes necessitated surgery in some cases.

Bicycle Carriers for Children

The sports equipment, playing surfaces, and facilities committee (F08) has developed a new standard (F3641) on child bicycle carriers. F3641 provides clear specifications on front-mounted child bicycle carriers, located between the rider and handlebars of a bike.

Beach Umbrella Safety

The consumer products committee (F15) has developed a standard specification for beach umbrellas and anchor devices. The new standard (F3681) is overseen by ASTM's market umbrellas subcommittee (F15.79) and seeks to address known hazards posed by detached beach umbrellas.

Wakeboard Strength

The snow and water sports committee (F27) has approved a new standard (F3707) that outlines test methods manufacturers, suppliers, and testing laboratories in the wakeboard industry can use to test wakeboard breaking strength.

The same testing methods can be applied by suppliers and testing laboratories who work with multiple manufacturers to assess the breaking strength for all wakeboards. Additionally, test setup and data recording will be streamlined with the new standard.

**Drowning Detection Systems for Residential Pools**

The consumer products committee (F15) has developed the first standard (F3698) for computer-vision drowning detection systems for residential swimming pools. Covered devices offer a variety of drowning safeguards. Examples include indicating potential for drowning, flagging low visibility conditions, and signaling in response to drowning behavior.

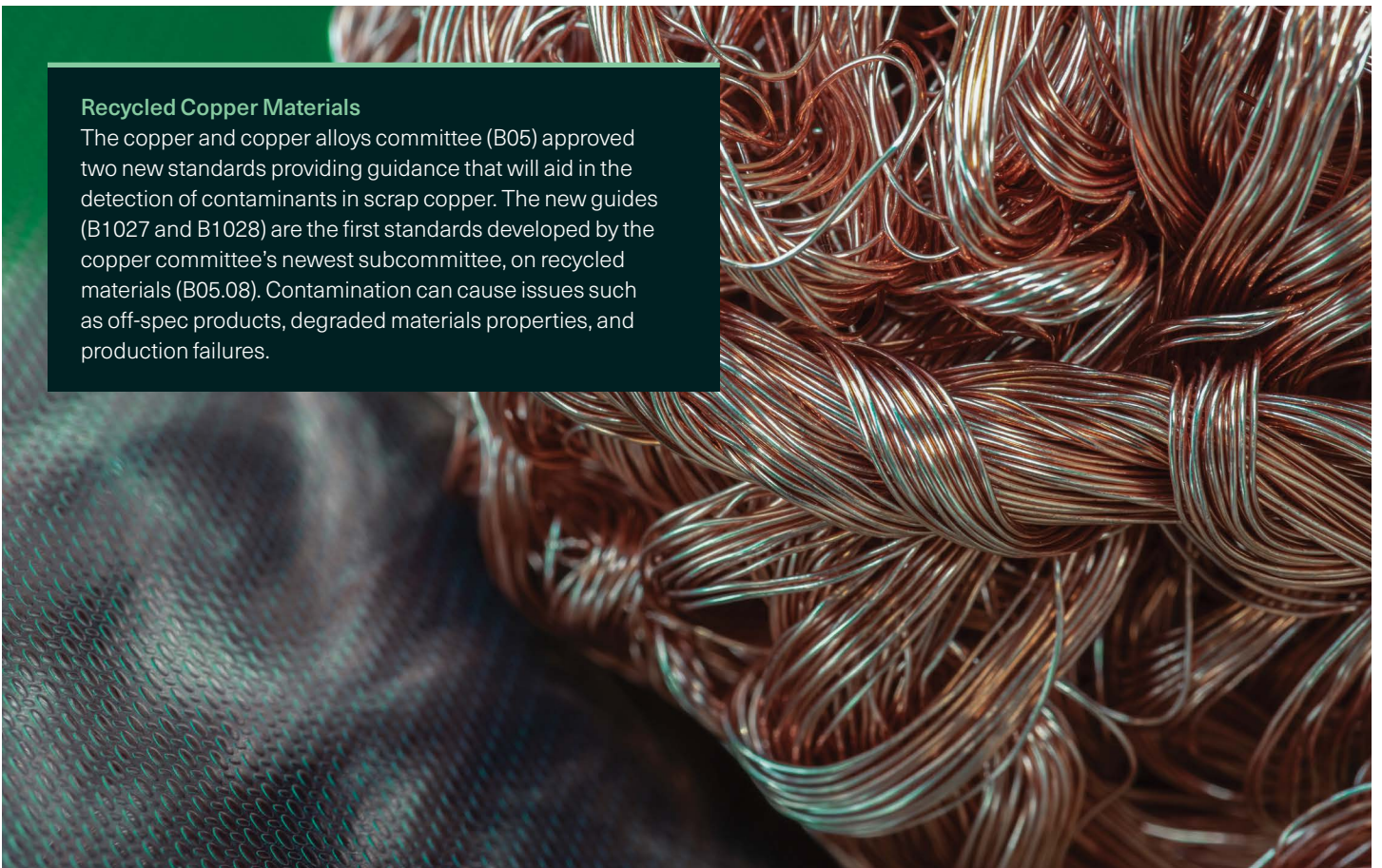
PFAS Road Map Assessment for Consumer Products

A new standard will provide users with a road map for planning and executing assessments of per- and polyfluoroalkyl substances (PFAS) in consumer products and articles. The new standard (F3700) was developed by ASTM's consumer products committee (F15). PFAS are a group of chemicals resistant to heat, grease, oil, and water. PFAS are used in many consumer products and do not break down in the environment.

Environment and Energy

Recycled Copper Materials

The copper and copper alloys committee (B05) approved two new standards providing guidance that will aid in the detection of contaminants in scrap copper. The new guides (B1027 and B1028) are the first standards developed by the copper committee's newest subcommittee, on recycled materials (B05.08). Contamination can cause issues such as off-spec products, degraded materials properties, and production failures.



Environmental Site Assessments for Forestland or Rural Property

The environmental assessment, risk management, and corrective action committee (E50) revised a key standard (E2247) related to environmental site assessment for forestland or rural property. This standard practice is meant for voluntary use by attorneys, consultants, real estate professionals, and more to assess the environmental condition of forestland or rural property.

Property Condition Assessment Guide

The environmental assessment, risk management, and corrective action committee (E50) made over 140 revisions to its standard guide for property condition assessments (PCA): baseline property condition assessment process (E2018). The revision places more emphasis on the user, establishing objectives for each PCA to refine their scope of work according to need and resources.

Petroleum Quality Management System Standard Revised

The petroleum products, liquid fuels, and lubricants committee (D02) completed an extensive revision of an important standard used for establishing and maintaining a quality management system in a laboratory. The revised standard (D6792) provides guidance for all aspects of laboratory testing, from receiving a sample to reporting results to a customer.

Automotive Spark-Ignition Engine Fuel Standard

The petroleum products, liquid fuels, and lubricants committee (D02) has revised its specification for automotive spark-ignition engine fuel (D4814). The revision was driven by a review of multi-decade average seasonal temperatures used to develop the volatility classes for gasoline. The revision also revises wintertime 50% distillation limits based on vehicle testing.

Biobased Testing

The plastics committee (D20) has revised an important standard that supports using radiocarbon analysis to determine the biobased content of solid, liquid, and gaseous samples. The revision includes an update of the atmospheric adjustment factor (REF) value that is used in product analysis for biobased and biogenic carbon content. The revised standard (D6866) is used to report the percentage of biobased or biogenic carbon content of products, raw materials, chemicals, or other content that are in a liquid, solid, or gas form.

Testing for Organic Additives in Engine Coolants

The engine coolants and related fluids committee (D15) has approved a new test method that will be used to determine common organic additives in engine coolants. The new standard (D8567) describes how high-performance liquid chromatography (HPLC) is used to analyze engine coolants for azoles and organic acids, which can affect performance.

New Engine Coolant Standards

The engine coolants committee (D15) approved two glycol-based standards for fuel cell electric (FCEV) and electric vehicles (EV). In addition, the Committee is developing two standards for non-aqueous coolants for use in EVs.

The newly approved glycol-based coolant standard D8565 is for use in a FCEV where the coolant is in contact with the fuel cell stack. D8566 is for use in an EV with low electrical conductivity to minimize potential harm caused by coolant contacting the batteries.

Biofuel Production

The bioenergy and industrial chemicals from biomass committee (E48) has developed a new standard (E3417) test method to measure the cellulosic content in pre- and post-conversion samples from bioethanol production.

Health and Safety

Ambient Outdoor Air Quality Sensors

The air quality committee (D22) approved a new standard that will help measure the performance of ambient outdoor air quality sensors. The new standard (D8559) and a previously approved standard (D8406) are the first to institute standardized performance tests and criteria for ambient outdoor air quality sensors.

Microplastics Detection in Environmental Waters

The water committee (D19) approved a new standard that will be used to identify microplastics in environmental water samples. The new test method (D8401) is the first standard that will identify plastic in the environment and the first that can be used synergistically with other ASTM standards for sample collection and preparation.

Stormwater Control Measures

A new standard (E3400) will enable the assessment of the pollutant removal ability of stormwater control measures. The stormwater

control measures committee (E64) developed the new standard. The new standard provides a way to collect data to assess the pollutant removal ability of stormwater control measures to ensure the products being installed are effective at removing the pollutants of concern.

Microbial Barrier Properties of Wound Dressings

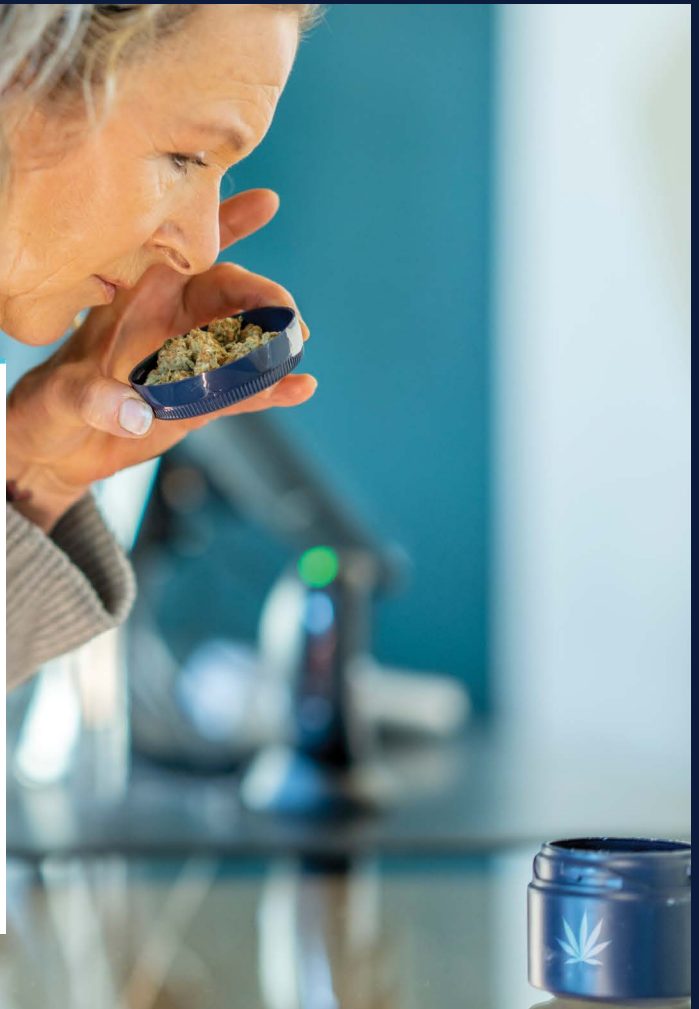
Helping to determine the microbial barrier properties of solid wound dressings, including liquid adhesives, is the purpose of a newly approved standard (E3383). ASTM's pesticides, antimicrobials, and alternative control agents committee (E35) developed the new standard. The standard will provide a method to test the microbial barrier properties of wound dressings that are labeled as microbial barrier.

Cannabis Quality Management and Manufacturing Practices

The cannabis committee (D37) has approved two complementary standards that address quality management systems (QMS) and good manufacturing practices (GMPs).

New standard D8556 provides a concise set of QMS requirements that can be used as the basis for any/all of the following: gap assessments, internal and external audits, training programs, certification programs, and implementation checklists.

The second new D37 standard, D8557, will provide guidance for developing and implementing GMPs for the manufacture of cannabis/hemp-containing edibles, dietary supplements, topicals, and inhaled products for human use.



Indoor Air PFAS Detection

A new standard (D8560) will help to determine the presence of polyfluoroalkyl substances (PFAS) in the indoor air environment. ASTM's air quality committee (D22) developed the new standard. Quantifying PFAS concentrations in indoor air is important for accurate and meaningful exposure analysis and risk assessments since some PFAS has been implicated in adverse human health impacts.

Airborne Lead Exposure Assessment

A new standard approved by the air quality committee (D22) will be used to assess and help prevent human exposure to lead hazards in the air. The new test method (D8568) covers the determination of lead in airborne particulate (dust) by wipe and micro-vacuuming, paint, and soil collected in and around buildings and related structures using graphite furnace atomic absorption spectrometry (GFAAS).



Innovation and Aviation

Exoskeleton Use During Return-to-Work Process

The exoskeletons and exosuits committee (F48) has approved a new standard on exoskeletons' role in returning to work after an injury or illness. The standard (F3579) will provide guidance to anyone considering exoskeleton use during a modified/transitional duty period at work, helping them weigh the risks and benefits.

Robotics Applications

The robotics, automation, and autonomous systems committee (F45) has approved the formation of a new subcommittee on applications (F45.07). The subcommittee is a response to the expanding use of robotics and automation throughout many industry sectors. The goal of the new subcommittee is to provide a place where a variety of industries can come to develop robotics standards that are specific to their sectors.

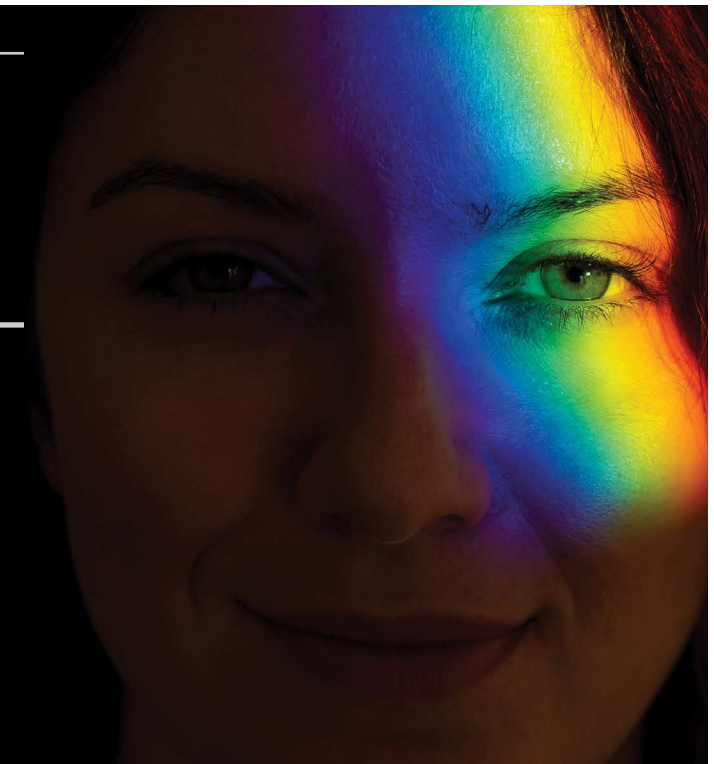


Color Calculation of Objects

The color and appearance committee (E12) has approved a new standard that will be useful in calculating the colors of objects. The new standard (E3415) expands on color calculations described in ASTM's standard on CIE colorimetric systems (E308).

Facial Recognition System Search Results

The forensic sciences committee (E30) has approved a new standard that will help to improve automated facial recognition search performance. The new standard (E3445) will help to improve search results for people using a facial recognition system (FRS). The new standard describes a series of steps to process a probe image to maximize the likelihood that an FRS search returns a potential candidate.



Storage of Thermographic (TG) Nondestructive Evaluation Data Using DICONDE

The nondestructive testing committee (E07) has approved a new standard that will be used to aid in the creation, transfer, and storage of thermographic nondestructive evaluation (NDE) test results. Nondestructive evaluation is used to identify quality anomalies in critical parts essential to many industries. The new standard (E3440) facilitates the interoperability of thermographic imaging and data acquisition equipment by specifying the image data transfer and archival storage in commonly accepted terms.

Planetary Protection

The space simulation and applications of space technology committee (E21) has formed a new subcommittee on planetary protection. The subcommittee (E21.09) plans to develop standards for identifying, quantifying, and mitigating contamination, both forward and backward, between solar system bodies and the Earth-Moon system.

Goods Movement Process

The digital information in the supply chain committee (F49) has approved a new standard that provides foundational terminology related to the naturally occurring sequential phases of the goods movement process. F3682 is the first approved standard developed by F49, which was established in 2022.

Supply Chain Documentation

The digital information in the supply chain committee (F49) has developed a pioneering standard guide for verifying certificates of authentication (COA) used to verify product-related documents through the goods movement process, incorporating blockchain

technology. The new standard (D8558) is the first of its kind to reference a distributed ledger blockchain solution for this purpose.

Damage Tolerance Evaluation of Normal Category Aeroplane

A new standard developed by the general aviation aircraft committee (F44) will provide general instructions for damage tolerance evaluation of structures for normal category aeroplanes. The new standard can be used as one means of compliance to the requirements of damage tolerance evaluation of structures of normal category aeroplanes.

Information in the new standard (F3720) can be used in conjunction with the small aeroplane structural durability standard (F3115) previously approved by F44.

Classification of Spacecraft Vehicle Types

The commercial spaceflight committee (F47) has approved a new standard that will be used to help classify spacecraft vehicle types. The new standard (F3388) will be useful to space launch and reentry vehicle manufacturers and existing or prospective spaceports that are planning new facilities or support for new vehicles.

Competency-Based Workplace Learning Programs

A new standard approved by ASTM's accreditation and certification committee (E36) provides instruction for developing and administering competency-based workplace learning (CWL) programs. The new standard (E3416) complements other standards that help to guide organizations developing and administering personnel credentialing programs.

ASTM Releases Standardization Impact Report

ASTM published a major new report that highlighted the impactful role that standards play in supporting global innovation trends. The Standardization Impact Report (SIR) addresses ways in which standards in five industry sectors adhere to the United Nations Sustainable Development Goals and influence crucial sustainability initiatives.

THE SIR WAS RELEASED IN SECTIONS COVERING:

- Emerging Airspace
- Health and Safety
- Built Environment and Infrastructure Systems
- Advanced Manufacturing



COMING
SOON!

THE FINAL SECTION ON
CLEAN ENERGY AND
DECARBONIZATION
TECHNOLOGY.

AM CoE ANNOUNCES ADDITIVE MANUFACTURING CERTIFICATION COMMITTEE

ASTM International's Additive Manufacturing Center of Excellence (AM CoE) announced the launch of its Additive Manufacturing Certification Committee (AMCC) initiative. The AMCC is composed of only representatives from AM end-users. Its mission is to bring key stakeholders together from across multiple industry sectors to collaborate on audit criteria to qualify AM supply chains.

ICAM 2024 HOSTS 1,000 ATTENDEES FROM AM INDUSTRY

ICAM 2024 was the ninth annual flagship event for ASTM, emphasizing standardization, qualification, and certification, with a particular focus on industry-specific requirements encompassing all AM processes and value chains. The conference's comprehensive agenda included 20+ symposia, covering vital topics and key areas in additive and advanced manufacturing.

AUSTAL USA, BLUEFORCE ALLIANCE PARTNER WITH ASTM INTERNATIONAL

ASTM International has formed a strategic partnership with Austal USA and BlueForge Alliance to strengthen the U.S. Navy's AM capabilities. The collaboration aims to enhance the Navy's supply chain for future submarine platforms by establishing a robust and secure manufacturing system that supports new parts and through-life spares production.

ASCET

CENTER OF EXCELLENCE

ASTM INTERNATIONAL SELECTED TO LEAD STANDARDIZATION CENTER OF EXCELLENCE

ASTM was selected to launch a center of excellence now known as ASCET (Advancing Standardization for Critical and Emerging Technologies) focused on supporting standardization of critical and emerging technologies (CETs). Through a competitive process, the U.S. Department of Commerce's National Institute of Standards and Technology tapped ASTM to lead the center, along with several other partners in the standards development environment.

MORE
INFORMATION
ON THE AM CoE'S
ACTIVITIES WILL BE
AVAILABLE IN ITS
2024-2025 ANNUAL
REPORT.

Global

ASTM Organizes UAE Chapter Workshop

An ASTM International UAE Chapter Workshop was organized in Dubai with MoU partner, the Ministry of Industry and Advanced Technology (MoIAT). The core topic addressed Net Zero initiatives and featured ASTM standards. Vice Chair of ASTM's Board of Directors, Amer Bin Ahmed, provided opening remarks.



Yazbeck Begins Consultancy Representing ASTM in Middle East & North Africa

In June, Engineer Fouad Yazbeck, P.E. began part-time representation of ASTM in the Middle East & North Africa region. Reflecting ASTM's increased focus on the MENA region, Yazbeck is fostering stronger relationships and collaborating with industry leaders, local standard bodies, and other stakeholders to advance awareness of how ASTM standards support the unique requirements and aspirations of the region.

EUROPE

ASTM Board Meeting in Brussels, Belgium

In October 2024, ASTM's 24 Board members convened in Brussels to make key decisions about the future strategy and direction of ASTM International. ASTM visited over 30 organizations in Brussels to discuss standardization and cooperation between the US, the EU, and more. The outreach also welcomed participation from several members of ASTM's Emerging Professionals program.

AFRICA

Global Cooperation Manager Participates in ARSO's 30th General Assembly

As part of the outreach in Africa, global cooperation manager Maria Jiverage participated at the 30th General Assembly (GA) of African Organization for Standardization (ARSO) held in Abuja, Nigeria. At the meetings, Jiverage addressed the GA and held bilateral meetings with a dozen MoU partners.

ASTM Facilitates Meeting on Use of Denatured Ethanol

Addressing interest in adopting standard specification for denatured ethanol for use as cooking and appliance fuel (E3050) ASTM facilitated meetings between Pivot, ANSI, and ARSO. Fifteen countries have expressed interest in the citation and implementation of the standard.

LATIN AMERICA AND THE CARIBBEAN

ASTM and ICONTEC Deliver Quality Infrastructure Course

ASTM International, together with long-time MoU partner the Colombian Institute of Technical Standards and Certification (ICONTEC) and the Distrital Francisco José de Caldas University, delivered a 10-hour course on quality infrastructure in October 2024. More than 200 students took part in the hybrid event and learned about the experiences of the two organizations with a focus on managing and regulating substantial elements related to the competitiveness of the countries.

ASTM Hosts Spanish Language Webinars

As part of ASTM's ongoing outreach in Latin America, eight webinars were hosted in Spanish throughout the year on either technical or procedural topics. Collectively, over 70 countries attended the webinars, on topics from additive manufacturing to fire safety. The webinars were facilitated by ASTM's representative based in Lima, Peru.

Global

UNITED NATIONS

ASTM International Participates in the 29th Annual Meeting of United Nations on Climate Change and Resilience

ASTM International obtained observer status within the United Nations Framework Convention on Climate Change. ASTM participated in the Conference of Parties 29 (COP29) in Baku, Azerbaijan in November, networking extensively and participating in five panel sessions with presentations focused on climate adaptation, the sustainable and resilient built environment, and innovation.

In addition, ASTM pledged to enhance climate resilience during a panel discussion in New York City on September 23rd. Teresa Cendrowska, vice president, global cooperation, discussed ASTM's commitment to the President's Emergency Plan for Adaptation and Resilience (PREPARE) Call to Action to the private sector. The event took place to introduce a new cohort of organizations responding to the PREPARE Call to Action and to showcase the ways key private sector entities support climate-vulnerable communities.

The background of the page features a photograph of three prominent, modern skyscrapers in Baku, Azerbaijan, known as the Flame Towers. The towers have a distinctive curved, flame-like shape and are covered in glass. They are illuminated from within, and the sky is a deep purple and blue, suggesting dusk or dawn. The towers are set against a cityscape with other buildings visible in the distance.

3

Themes

5

Presentations/
Partners

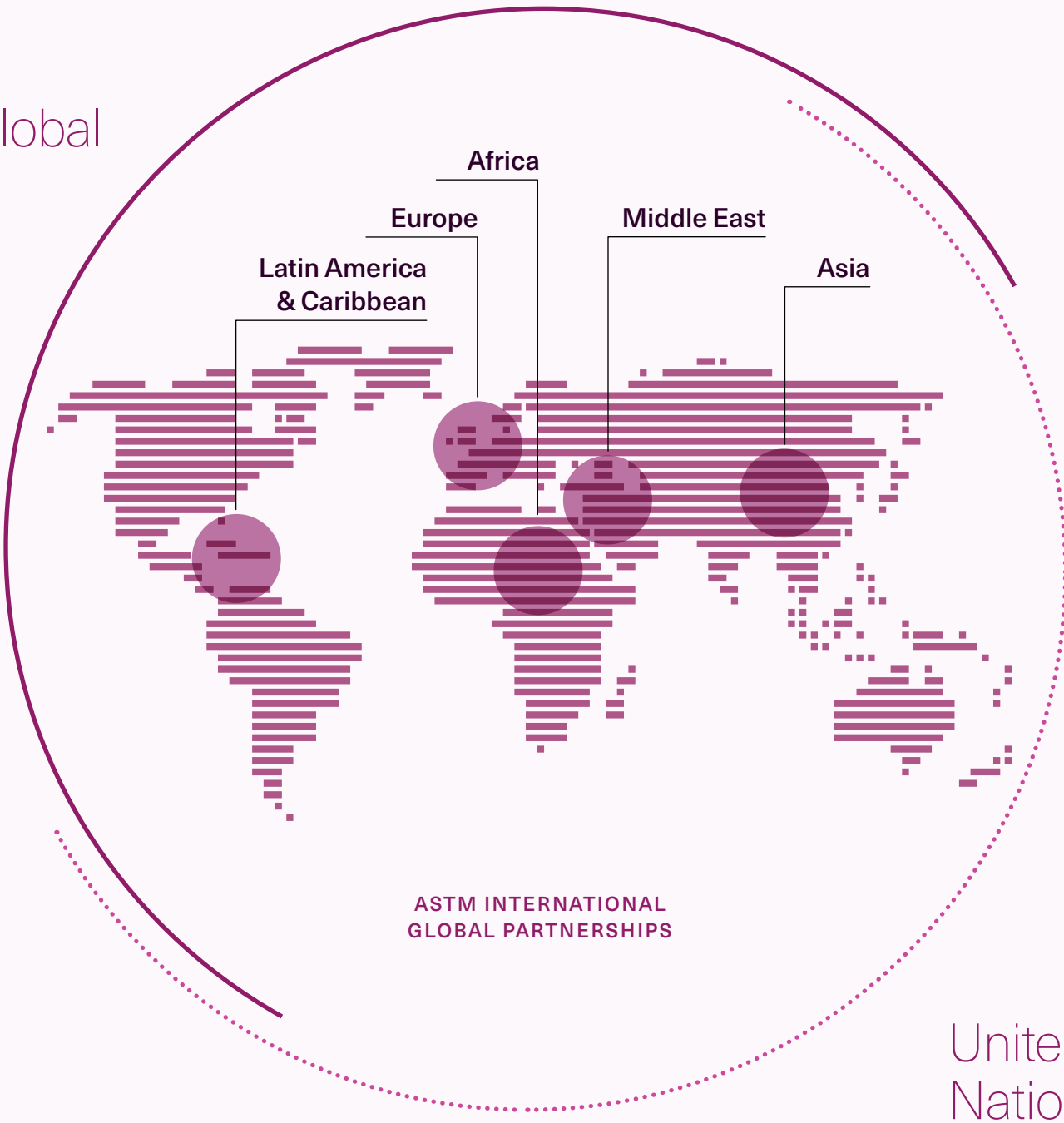
40

Contacts

3,000⁺

Video Views

Global



GLOBAL ENGAGEMENTS

— Global

FIHO | GCCA | IAEA | IAPMO | ICC | IEC | ILO | IMDRF | ISO | MCC | NATO | OECD
USAID | US DOC | USTDA | USTR | WB/IFC | WTO/TBT

.... United Nations

CSW | ECOSOC | ICAO | ITC | ITU | SIDS | UNCOPUOS | UNCTAD | UNDP
UNDRR (ARISE) | UNEA | UNECE | UNIDO | WHO

REGIONAL ENGAGEMENTS

Europe	CEN CENELEC EASA EDA EOTA ETSI EuroCAE FormNext JARUS
Africa	ARSO EAC SADC
Asia	APEC ASEAN IATA IPEF PASC
Latin America & Caribbean	COPANT CROSQ FIHP
Middle East	AIDSMO GSO US-UAEBG

Next Generation & Awards

GRADUATE SCHOLARSHIPS

ASTM International boasts more than 5,000 student members and offers several scholarships and grant opportunities each year. In 2024, four \$10,000 scholarships were awarded to the following deserving students.



Lane Flora is an applications engineer at Jacobi Carbons, pursuing a master of science degree in chemical engineering from The Ohio State University. Flora is an active member in various ASTM committees including activated carbon (D28), air quality (D22), and water (D19). He will soon be taking a position as technical director at Jacobi Carbons, using ASTM standards to advance a high standard of quality.



Melissa Armistead is a Ph.D. student in fiber and polymer science at NC State University. Armistead is a member of ASTM's personal protective clothing and equipment committee (F23), currently using ASTM standards in her work to improve safety and comfort for textiles used in firefighting.



Pandora K. Picariello is a Ph.D. student in materials science at Colorado School of Mines. Picariello plans to use her experience in additive manufacturing with ASTM and NIST at an upcoming internship with Canopy Aerospace, the start of her career in the field.



Vishnu Ramasamy is a Ph.D. student and graduate research assistant in materials science and engineering at Case Western Reserve University. Ramasamy is also pursuing a career in additive manufacturing after working with ASTM's additive manufacturing committee (F42), and hopes to develop standards for hybrid AM processes.

2024 AWARD OF MERIT RECIPIENTS

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

James Barker
Petroleum Products, Liquid Fuels, and Lubricants (D02)

Cary K. Black
Cannabis (D37)

Jeff Bowlsby
Gypsum and Related Building Materials and Systems (C11)

John E. Bringas
Steel, Stainless Steel and Related Alloys (A01)

James Carlson
Roofing and Waterproofing (D08)

Ervin L. Dukatz Jr.
Road and Paving Materials (D04)

Edward L. Freyermuth
Masonry – Manufactured Masonry Units, Mortars and Grouts (C15)

Daniel E. Geist
Analytical Chemistry for Metals, Ores, and Related Materials (E01)

Edward A. Ginzel
Nondestructive Testing (E07)

Ray B. Henderson
Masonry – Manufactured Masonry Units, Mortars and Grouts (C15)

George W. Hodge
Concrete Pipe (C13)

Richard F. Jack
Water (D19)

Chad M. Larson
Fasteners (F16)

Daniel J. Lemieux
Performance of Buildings (E06)

Robert Lozano
Geosynthetics (D35)

Benjamin Markel
Refractories (C08)

Mark Niemuth
Cement (C01)

Nicholas G. Paulter Jr.
Security Systems and Equipment (F12)

N. Randy Rainwater
Soil and Rock (D18)

Anita Sawyer
Medical and Surgical Materials and Devices (F04)

Irving S. Scher
Snow and Water Sports (F27)

Michael Schmeida
Sustainability (E60)

Marc Scibetta
Fatigue and Fracture (E08)

Chris G. Slate
Concrete and Concrete Aggregates (C09)

Seymour Sweet
Reactive and Refractory Metals and Alloys (B10)

Krista L. Turpin
Pesticides, Antimicrobials, and Alternative Control Agents (E35)

Christine A. Van Dongen
Sensory Evaluation (E18)

EMERGING PROFESSIONALS

The Emerging Professionals Program is celebrating its 10th Anniversary in 2025. The program now has 397 EP graduates that have gone through 34 workshops in four different countries. They account for 637 registered work items and fill 236 leadership positions in 119 different technical committees which reflects 82% of ASTM's 146 committees. Sixty-one awards have been given to EP graduates, and 33 ILS programs are registered by EP graduates. Two emerging professionals have now served on COTCO, and one on the Board of Directors. Two international EP workshops, held in Singapore and Brussels, have broadened the program's international reach and awareness; and through the program, ASTM has welcomed 11 students and three MOU members.



STUDENT CHAPTER

ASTM launched a new ASTM student chapter at Central Philippine University (CPU), located in Iloilo City, Philippines, residing in the school's Packaging Engineering program. ASTM's program at CPU is overseen by engineers Bernie Cangrejo and Danielle Sentillanosa, serving as program head and faculty advisor, respectively.

AWARDS

James A. Thomas President's Leadership Award: Michael Reichenberger

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

Michael Reichenberger is radiation measurement scientist for at Idaho National Laboratory and member of ASTM's nuclear technology and applications committee (E10).

Professor of the Year Award: Cynthia Annett

The ASTM International Professor of the Year Award is presented annually to recognize and reward the contributions of educators in developing students' understanding of consensus standards.

Cynthia Annett is a research associate professor at Kansas State University, a position she's held since 2000. Annett uses E50 standards in her graduate classes to demonstrate how consensus-based standards can support underserved and at-risk communities. Her graduate students have gone on to use these standards in their work for FEMA, the U.S. Geological Survey, state agencies, and indigenous tribes.

W.T. Cavanaugh Award: Manuel Lascarro and Taco van der Maten

The Cavanaugh Memorial Award honors W.T. Cavanaugh, CEO of ASTM International from 1970 to 1985, who established ASTM as the world leader in developing and disseminating voluntary standards.

Manuel Lascarro is general director of the Colombian Chamber of Cement and Concrete (PROCEMCO). He previously served on The Board of Directors from 2006 to 2008, and actively participates in its concrete and concrete aggregates committee (C09) and its sustainability committee (E60). His work as a liaison between ASTM and ICONTEC has been pivotal for ASTM's endeavors in Latin America.

Taco van der Maten (below center) is segment manager for energy, petrochemicals, and polymers at Malvern Panalytical. He served in various positions on ASTM's Board of Directors, including as its Chair in 2019, making him the first-ever European national to serve in this position. He continues to be a valuable member of ASTM's declarable substances in materials committee (F40), and an international ambassador for standards development work.



Products and Services

Advancing Accessibility: ASTM Compass® and Our Commitment to Inclusion

At ASTM, we are committed to making ASTM Compass accessible to all users and adhering to the highest digital accessibility standards. In 2024, we strengthened this commitment by updating our Voluntary Product Accessibility Template (VPAT®), an essential document that assesses and communicates our platform's compliance with WCAG 2.2 Level AA guidelines.

Our latest VPAT® assessment, carried out in December 2024 by the third-party vendor TestingXperts, Inc., employed screen readers, automated tools, and manual evaluations to assess Compass's accessibility. The results are impressive—ASTM Compass currently meets 85% of WCAG 2.2 Level A and AA criteria, showcasing significant compliance while also highlighting areas for further improvement.

While we celebrate this achievement, we acknowledge the necessity for ongoing enhancement. The Product Management team has created an accessibility roadmap to tackle the remaining challenges, ensuring that ASTM Compass remains a top-tier resource for all users.



ASTM Compass
meets significant
compliance for
accessibility according
to WCAG 2.2 Level A
and AA criteria



ASTM Compass® Accessibility Roadmap Statement

At ASTM, we are dedicated to ensuring that ASTM Compass® is an **inclusive and accessible platform for all users**. Accessibility is a core part of our continuous improvement strategy, and we are committed to aligning with the latest industry standards to enhance usability and compliance.

COMMITMENT TO WCAG 2.2 (LEVELS A & AA) COMPLIANCE

Our latest **VPAT (Voluntary Product Accessibility Template)**, completed in December 2024, demonstrates our strong alignment with WCAG 2.2 (Levels A & AA) standards. This comprehensive evaluation assessed ASTM Compass® across multiple accessibility criteria, ensuring we meet key compliance benchmarks. The full VPAT report is available upon request.

Key Accessibility Focus Areas

1.

Screen Reader & Assistive Technology Compatibility
2.

Improved UI & Visual Accessibility
3.

Keyboard Navigation & Interaction Enhancements
4.

Ongoing Compliance Audits & User Feedback Integration

While specific implementation details remain proprietary, we want to assure our customers that accessibility remains a priority in our product development. ASTM is committed to enhancing usability, addressing accessibility gaps, and improving the overall experience for all users.



Please contact your sales representative for further inquiries.



New Books

1.

Methodology Used to Update the Gasoline Volatility Schedule for US Seasonal and Geographic Classes. ASTM Technical Report 4. Committee D02.

2.

Additive Manufacturing of Metals — Feedstock Materials — Correlation of Rotating Drum Measurement with Powder Spreadability in PBF-LB Machines. ISO/ASTM Technical Report 52952. ASTM Committee F42.

3.

ASTM is also developing **5 manuals** and **3 more technical reports** to be published soon.

Products and Services



125%

Silverchair's enhanced navigation, seamless accessibility, and optimized discoverability drove record engagement across key segments, including usage of online Selected Technical Papers (STPs) increasing by 125%.

ASTM Digital Library Soars with Silverchair: Record Growth and Engagement!

The ASTM Digital Library saw a surge in usage, fueled by the transformative transition to the Silverchair platform. This purpose-built site for engineering books and journal content has elevated the user experience, making it easier for researchers, engineers, and professionals to discover and engage with our Digital Library content. Enhanced navigation, seamless accessibility, and optimized discoverability drove record engagement across key segments, with online journal usage increasing by a 63% and usage of online Selected Technical Papers (STPs) soaring by 125%.

The Silverchair platform has reinforced ASTM's commitment to knowledge sharing and accessibility, broadening the Digital Library's impact across academic and corporate audiences. With this momentum, the ASTM Digital Library is on a clear trajectory for sustained growth, ensuring its content reaches an ever-expanding global audience.

ASTM Compass® Additional Improvements

Hundreds of thousands of users come to the ASTM Compass subscription platform to digest standards, and a dedicated team spent 2024 working on adding additional related content to be found there.

These include

- ASTM training programs;
- additional functionality for the version comparison tool;
- harmonizing tracker alerts between; ASTM's public site and ASTM Compass;
- translations;
- improving search results; and
- making it easier to discover other standards organizations content on ASTM Compass.

ASTM SpecBuilder

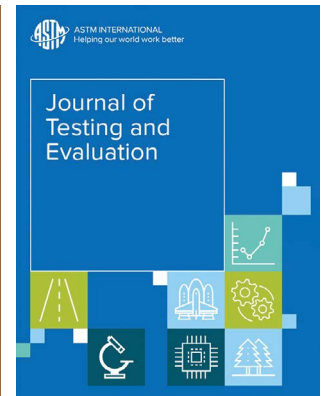
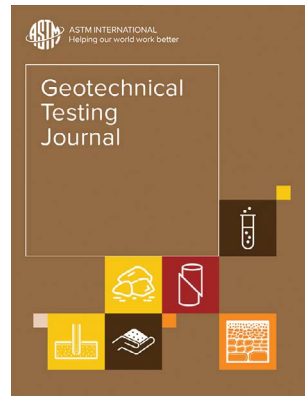
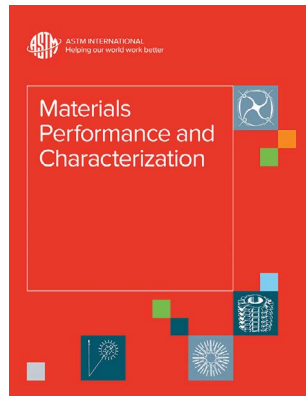
As well as supporting work for ASTM members being able to do more development work online, the SpecBuilder team completed several key features.

- Ballot Builder and Count Towards Pass/Fail added significant customization tools for managing ballots;
- updates to the ASTM SpecBuilder Link API; and
- more Primary/Alternate voter management.

Special Journal Content and Selected Technical Papers

Materials Performance and Characterization published the special issue “Fatigue and Fracture Mechanics” (Volume 13, Issue 2). The issue attracted high-quality contributions from leading scientists and engineers resulting in 11 articles on topics such as fatigue crack growth fracture, propagation, toughness fatigue, and damage failure inspection repair.

Geotechnical Testing Journal published the special issue “Recycled Materials for Sustainable Geotechnical Construction” (Volume 47, Issue 1). The issue brings together 23 articles covering the use of a broad range of recycled materials in construction applications including steel slag, rice husk ash, ferrochrome slag, recycled concrete aggregate, recycled asphalt pavement, lignin, recycled binders, recycled plastics, and quarry fines.



Journal of Testing and Evaluation published a special six-article section “Detection Limits in Air Quality and Environmental Measurements” (Volume 52, Issue 5) and a special nine-article section “Contaminants in the Cannabis and Hemp Industry and Their Impact on Consumer Safety” (Volume 52, Issue 6).



Bearing and Transmission Steels Technology (STP1649) compiled 25 papers on bearing and transmission steel testing from a 2022 symposium, edited by John Beswick.

Pesticide Formulation and Delivery Systems: 42nd Volume, Building the Future of Agrochemicals for 2030 and Beyond (STP1651) offered eight papers on formulation and application technologies associated with adjuvants and spray characterization, edited by Krista Turpin.

VOC (Voice of the Customer)

ASTM Product Management continued to engage our customers of standards and related content to discover actionable insights to make our products more useful, relevant, and responsive to members and customers needs. Interviews spanned the breadth of ASTM content and services, including lab and testing services, across industries including petroleum, aerospace and defense, and many more. Resulting developments will include more efficient means to follow changes in standards, more tools to intelligently search for useful content, and tools to help meet and manage audits and other verification processes of compliance. Additional changes are being planned on astm.org, the webstore experience, natural language search, and improved user interfaces across our platforms.

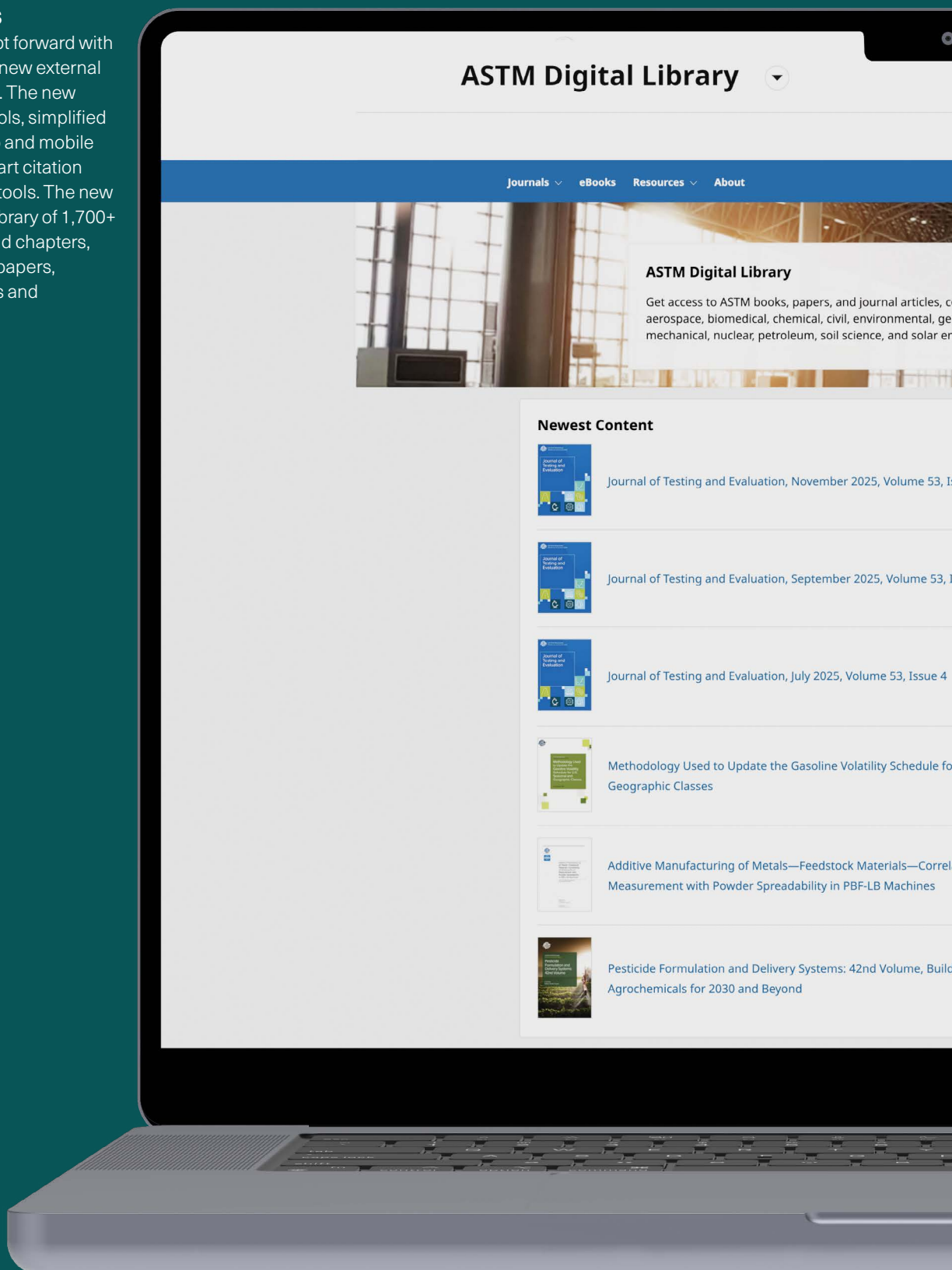
Additional VOC

In addition to the significant assessment, product managers also explored customer feedback on the website and webstore experience, and search and user interface for ASTM Compass, both efforts also advising further planning.

Products and Services

BOOKS AND JOURNALS

The ASTM Digital Library leapt forward with the launch of its content on a new external platform at go.astm.org/pubs. The new site offers powerful search tools, simplified navigation, improved desktop and mobile experience, and state-of-the-art citation export and email notification tools. The new site offers the entire Digital Library of 1,700+ books and 60,000+ papers and chapters, including selected technical papers, journals, and various manuals and technical reports.



Live Training & OnDemand Solutions

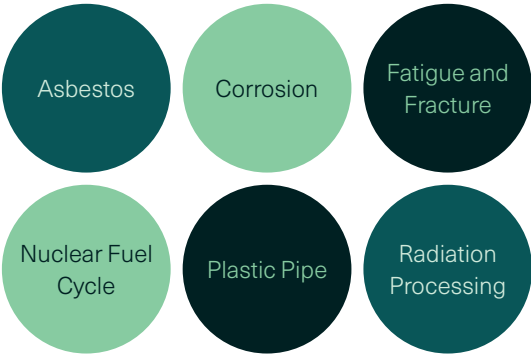
ASTM launched 74 new eLearning products spanning diverse industries such as energy, construction, plastics, environment, and non-destructive testing. These courses include traditional eLearning courses, microlearning courses, comprehensive eLearning programs, and virtual reality experiences. These new offerings added to our catalog of more than 700 courses, resulting in the presentation of 117 open-enrollment learning events in 2024, 55 of which were delivered virtually.

In response to the launch of the Certified Environmental Professional (CEP) program, ASTM expanded its offerings to equip individuals with the knowledge and skills to excel in certification. Our certification prep products include a variety of resources such as interactive online and traditional classroom courses, and practice exams. These materials are designed to enhance understanding of key concepts, methodologies, and regulations impacting the environmental sector.

Symposia

In 2024, one conference, three symposia, and 15 workshops took place. Most of the events were held in-person and in conjunction with an ASTM Committee Week.

Event topics included



Three editions of ASTM's Selected Technical Papers (STP) are planned to publish as a result of the symposia.



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



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. The overall program has grown to include approximately 1,800 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. This program ships approximately 18,400 boxes (377 tons) to more than 1,900 laboratories worldwide.



The **Test Monitoring Center (TMC)** provides worldwide calibration services for more than 45 ASTM test methods used to evaluate automotive lubricants. Reference oil distribution, tests and 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).

Financials

Consolidated Statements of Financial Position (in thousands)

	December 31, 2024	December 31, 2023
ASSETS		
Cash and cash equivalents	\$ 13,579	\$ 11,950
Short-term investments	21,676	19,479
Accounts receivable, less allowance for doubtful accounts of \$250 in 2024 and 2023	8,277	6,638
Interest receivable	194	177
Royalties receivable	8,735	7,734
Investments:		
General investment fund	269,895	244,649
Other	9,963	8,916
Cash surrender of life insurance	33,896	37,004
Inventories	1,492	1,413
Property and equipment, net	39,160	52,382
Right-of-use assets	998	1,497
Prepaid pension asset	95,831	78,486
Other assets	7,874	6,360
	<u>\$ 511,570</u>	<u>\$ 476,685</u>
LIABILITIES		
Accounts payable and accrued liabilities	\$ 11,813	\$ 10,642
Deferred income	21,402	17,758
Postretirement benefit liability	3,396	3,647
Lease liabilities	1,194	1,559
Total liabilities	<u>37,805</u>	<u>33,606</u>
NET ASSETS		
Without donor restrictions:		
Undesignated	293,978	268,543
Designated - general	175,829	170,438
	<u>469,807</u>	<u>438,981</u>
With donor restrictions	3,958	4,098
Total net assets	<u>473,765</u>	<u>443,079</u>
	<u>\$ 511,570</u>	<u>\$ 476,685</u>

Consolidated Statements of Activities (in thousands)

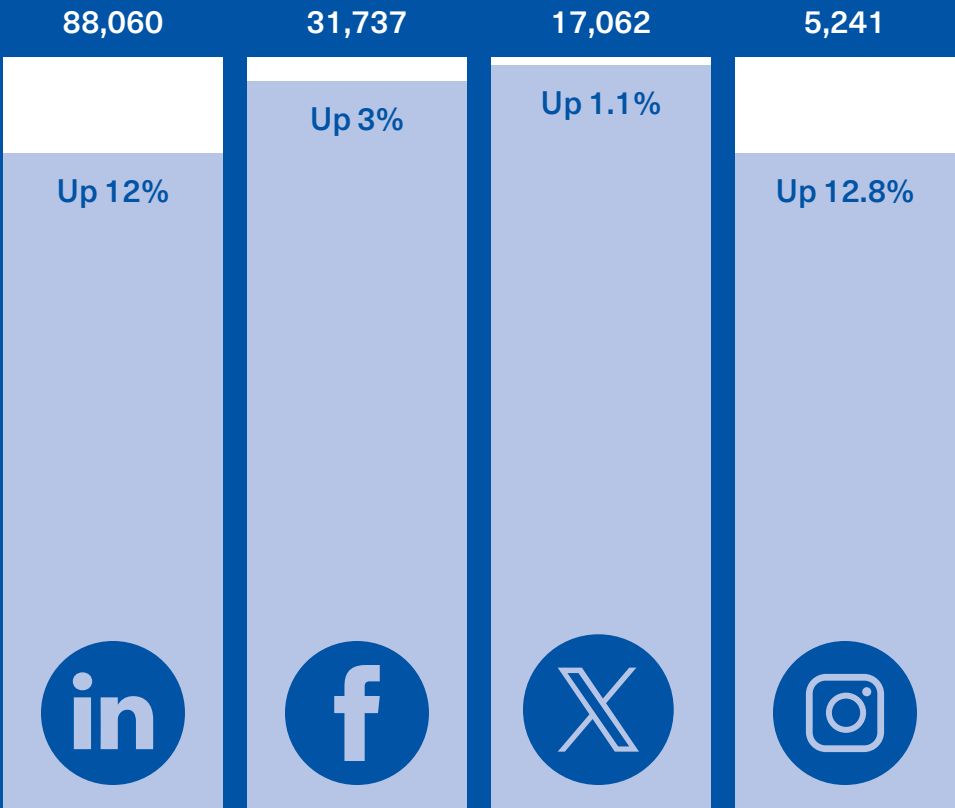
Years ended December 31, 2024 and 2023

	December 31, 2024	December 31, 2023
Changes in net assets without donor restrictions:		
Operating revenues:		
Publication sales	\$ 81,718	\$ 76,980
Laboratory services	28,645	24,356
Advanced manufacturing	3,399	2,895
Funded programs	856	764
Members' administrative fees	2,748	2,081
Investment return allocation	3,925	4,242
Symposium and other income	1,100	957
Contributions	316	187
Other	657	747
	123,364	113,209
Net assets released from restrictions	1,269	600
Total operating revenues	124,633	113,809
Operating expenses:		
Salaries and benefits	56,201	52,121
Consulting and IT services	14,132	13,097
Other Society office expense	8,678	7,399
Depreciation	9,725	9,800
Building occupancy	1,557	1,346
Publications	8,611	7,517
Laboratory services	8,888	8,675
Awards, contracts and other expenses	1,269	600
Committee and symposium expenses	3,055	2,691
Advanced manufacturing	3,249	3,244
Total operating expenses	115,365	106,490
Excess of operating revenues over operating expenses	9,268	7,319
Other revenues and (expenses):		
Board meeting - outside headquarters expense	(560)	(931)
Legal, copyright and strategy	(1,598)	(372)
Asia strategy	(23)	(62)
Advanced manufacturing	–	(158)
Modernizing business systems	(18,448)	(24,228)
Other	41	(322)
Investment gain	23,060	29,921
Pension and postretirement benefit changes	19,086	16,157
Total other revenues and expenses	21,558	20,005
Change in net assets without donor restriction	30,826	27,324
Change in net assets with donor restrictions:		
Interest and dividends	303	116
Contributions	710	464
Other	121	11
Investment (loss) gain	(5)	7
	1,129	598
Net assets released from restrictions	(1,269)	(600)
Decrease in net assets with donor restrictions	(140)	(2)
Changes in net assets	30,686	27,322
Net assets at beginning of year	443,079	415,757
Net assets at end of year	<u>\$ 473,765</u>	<u>\$ 443,079</u>

2024 Snapshot

148	New Standards	1,706	Revised Standards	12,945	Active Standards
27,610	Members Worldwide	2,197	Technical Subcommittees	146	Technical Committees

Communications
2024 was the year of post engagement on our social media channels. Reactions (likes, comments, and shares) were up 59%, and the average post engagement rate was 4.6% — a 30% increase over the previous year. The recently revamped Instagram channel had the highest overall engagement rate of any channel: 7.2%. ASTM videos on YouTube likewise experienced increased engagement; video views rose 37.5% in 2024 to 275,000.





ADVANCING STANDARDS
TRANSFORMING MARKETS

ANNUAL REPORT
2024

ASTM INTERNATIONAL HEADQUARTERS

100 BARR HARBOR DRIVE
P.O. BOX C700
WEST CONSHOHOCKEN, PA 19428-2959
USA

Tel +1.610.832.9500

Web go.astm.org