

100 ANSI
1918-2018

**ANNUAL REPORT
2017-2018**

100 YEARS:
STANDARDIZATION FOR A BETTER TOMORROW

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MESSAGE FROM

ANSI President & CEO

S. JOE BHATIA



With the celebration of our 100th anniversary this year, it's been an inspiring time to recognize and reflect on the rich history of collaborative standardization work ANSI is proud to have led. But as we looked back, we've also had a keen eye on the future and the innovative solutions that will take us to new levels of impact, strength, and success in the future.

Innovation is a big buzzword across nearly every area of business and society. But identifying tactics that effectively leverage innovation to transform organizations for growth can present as many challenges as opportunities. I think the *Harvard Business Review* said it better than I could: "Innovation is not a Harry Potter-esque magical incantation that, once spoken, renders companies more inventive, creative, and entrepreneurial." It's not a magic trick. Rather, innovation requires a thoughtful, enterprise-wide approach that identifies and supports the best new ways ANSI can achieve its goals and respond to the changing needs of our community and the nation.

When it comes to standardization activities that help advance innovative and emerging technologies, ANSI strongly believes that the flexible U.S. model is the most efficient and effective in the world. But it usually requires strategic coordination to ensure market and stakeholder needs are met. ANSI is proud of the responsive work we've led through our technology-focused standardization collaboratives, as you'll read more about in this annual report. From additive manufacturing to unmanned aircraft systems to new applications of nanotechnologies, a coordinated assessment of the needed standards and conformance activities across all relevant developers and stakeholders is critical to moving these emerging areas forward—and ANSI is proud to help drive this innovation. And we're proud of the collaborative efforts between so many of our members, partners, and stakeholders across the public and private sectors that have enabled these initiatives to succeed.

I recently had the pleasure of exchanging these types of innovative ideas with leaders from the European Standardization Organizations (ESOs) and my counterparts at other International Organization for Standardization (ISO) national standards bodies during some highly productive discussions that have strengthened our cooperative relationships further. And here at home we've prioritized bringing together our community and new stakeholders for interactive discussions of the exciting technological changes in the business landscape—like artificial intelligence and blockchain, the topics of our World Standards Week forums this year. Our diverse standards developer community is also paving innovative paths via the deployment of new technology-based platforms that enhance their development and delivery processes, and ANSI is holding educational sessions for members to share their experiences. Each of these SDOs is finding its own best solution to drive efficient standards development and meet its users' needs—in a great reflection of the flexible and collaborative system ANSI is proud to lead.

Speaking of collaborative leadership, I'd like to extend my gratitude to Board Chair Russ Chaney, as well as all of our dedicated Board officers, for guiding us through our milestone centennial year. As we undoubtedly continue to face new opportunities and challenges in the years ahead, let's remember that technology is not the driver. Rather, it is us, the people, who are driving the application of the technology, managing the changes, and advancing our objectives. I am confident that ANSI's dedicated members, volunteers, and staff, along with the committed professionals throughout the broader standardization community, have what it takes to bring about even greater success in our second century, without any magic tricks.



GP RUSS CHANEY

As ANSI celebrates its centennial, I am extraordinarily proud to take my place among a long line of volunteer leaders working together with the Institute's members and partners to shape the evolution of our collective standardization system. It brings to mind a great quote from the incomparable Thomas Edison, who personified the value of the past as a foundation for the future: "I start where the last man left off."

When I reflect on America's transformation through World Wars, industrialization, technological advancements, and the rise of new

sectors, I am inspired by the tremendous record voluntary standards and conformity assessment solutions have established in helping our nation thrive. From ANSI's beginnings as a lofty ideal of cooperation, to a federation that now represents and serves over 270,000 organizations—and more than 30 million professionals worldwide—the essence of successful standardization remains the same: We would not be able to adapt to a century of rapid industrial, societal, and technological advancement without such a responsive, robust, and highly collaborative standardization system.

Of course, many legacies start with modest beginnings. ANSI began as the American Engineering Standards Committee (AESC) in 1918, when it was little more than an ambitious program. The magnitude of the Institute's reach has evolved with the times, from the first standard on pipe threads, to a highly diverse portfolio of domestic and international standards and conformity assessment initiatives responding to changing industry and societal needs. None of this progress would be possible without the active member engagement, collaboration, and public-private partnerships that drive all of our success.

One of the greatest ways to pay tribute to ANSI, its membership, and our collaborative contributions to standardization is through commemorative anniversary events. This year, in conjunction with World Standards Day, I had the honor to represent ANSI at a Capitol Hill event focused on Standards as Important Tools for Innovative Infrastructure Solutions. We heard various perspectives on how standards and codes enable 21st-century growth, from smart buildings and cities to their influence on hazard mitigation strategies, and additive manufacturing in the construction industry. The event was also a great opportunity for Hill staffers to hear about the power of standards in helping address critical infrastructure challenges.

I am grateful that I was also able to attend ANSI's gala centennial celebration this spring along with hundreds of members and guests at historic Union Station in Washington, DC. Among the festivities, food, and fun, we were able to see first-hand how standardization has supported American industry and safety at work and home with the debut of our anniversary video, "ANSI Celebrates 100 Years of Standardization." The event also featured the unveiling of a commissioned anniversary art piece—an impressive sculptural collage of artifacts representing a visual history of the Institute and our community over 10 decades. These commemorative resources and many others are available for viewing on ansi.org/100, and I hope you'll take a look back through the century.

As always, I would like to thank all the standardization leadership, members, and partners that keep our monumental legacy on track. And thanks, also, to my fellow Board officers, governance leaders, and ANSI staff leadership for their support in helping ensure my first year as ANSI Chair has been up to the historically high standards of this remarkable organization. Congratulations to ANSI and cheers to the next 100 years.

Russ Chaney



MESSAGE
FROM

the
CHAIR
of the
BOARD



AMNSI

JULIUS

100

A storied history of success & impact

In 1918, a group of five engineering organizations and three federal agencies—the American Institute of Electrical Engineers (now IEEE); the American Society of Mechanical Engineers (ASME); the American Society of Civil Engineers (ASCE); the American Institute of Mining and Metallurgical Engineers (AIME); the American Society for Testing and Materials (now ASTM International); and the U.S. Departments of War, Navy, and Commerce—formed the American Engineering Standards Committee (AESC) as an impartial national body to coordinate U.S. standards development. Its first approved standard was for screw threading sizes on pipes.

With the booming industrialization of the 1920s, AESC worked to establish the beginnings of a nationwide standards system to help modernize U.S. infrastructure and industry and improve worker safety. In 1928, AESC reorganized as the American Standards Association (ASA) and grew to a level of international influence, helping to establish the forerunner of the International Organization of Standardization (ISO) and formalizing its relationship with the International Electrotechnical Organization (IEC).

During World War II, ASA played a key role in the U.S. war effort by setting standards for parts used in weapons and vehicles and enabling them to be produced faster and cheaper. In the '50s, ASA helped guide industry through the development of new fields like nuclear energy, electronics, and the early computers that paved the way for the Information Age. And as consumer culture grew, so did an increasing reliance on standardization to ensure that new products were safe and reliable.

In 1968, the Institute formed a certification committee to oversee its first accreditation mark, the American National Standard, and soon after adopted its present name. ANSI was steadily increasing its efforts to coordinate and approve voluntary national standards, and in 1970 the Institute formalized its public review process and

established the Board of Standards Review, greatly enhancing the openness, credibility, and balance of the standards development process.

In 1987, the Institute accepted responsibility for the most significant innovation in global standard-setting: administration of the ISO/IEC Joint Technical Committee on *Information Technology* (JTC 1), the world's largest-known standardization committee.

As competition among global markets increased in the '90s, standardization engagement became increasingly relevant for organizations looking for a strategic advantage over their competitors. The World Trade Organization reinforced the global importance of standards, and domestically, the National Technology Transfer and Advancement Act of 1995 mandated that all federal agencies rely upon voluntary consensus standards wherever possible.

By the 2000s, with a new focus on engagement with government agencies, ANSI moved its headquarters to Washington, DC, and published the first-ever *National Standards Strategy*. As prominent nationwide product recalls drew attention to the importance of product safety, ANSI took a leading role in demonstrating the value of standards and conformance in the supply chain. The Institute expanded its accreditation programs to provide services for certification bodies in a broad range of areas. And in 2014 ANSI established an affiliate organization, Workcred, focused on improving the quality, effectiveness, and market value of credentials.

Today, as innovation transforms business and society, ANSI is coordinating standardization work for cutting-edge areas such as nanotechnology, 3D printing, and drones. As mankind continues to develop technologies that now only exist in science fiction, the Institute will continue to lead the way in helping to ensure that standards and conformance support the innovations of tomorrow.



ANSI

The American National Standards Institute (ANSI) is a private, non-profit organization that administers and coordinates the U.S. voluntary standards and conformity assessment system. Founded in 1918, the Institute works in close collaboration with stakeholders from industry and government to identify and develop standards- and conformance-based solutions to national and global priorities.

Together, standards and technical regulations impact up to 93% of global trade. Globally relevant standards and the conformance measures that ensure their effective use help to increase efficiency, open markets, and reduce costs. ANSI is also the U.S. leader in fostering that potential for the benefit of businesses across every industry and consumers around the world. ANSI is not itself a standards developing organization. Rather, the Institute oversees the development and use of thousands of standards and guidelines by accrediting the procedures of standards developers and approving their documents as American National Standards. As an accreditation body, the Institute assesses the competence of conformity assessment bodies in a variety of disciplines, assuring marketplace trust and confidence that goods and services meet standards' requirements.

Representing the diverse interests of more than 270,000 companies and organizations and 30 million professionals, ANSI provides a neutral forum for collaboration between the private and public sectors. ANSI empowers organizations to strengthen their position in the global economy, while helping to assure the safety and health of consumers and the protection of the environment.

HEADQUARTERS

1899 L Street, NW
Eleventh Floor
Washington, DC 20036
202.293.8020

- ◆ Primary functions in this office include:
- ◆ Office of the President and CEO
- ◆ Accreditation Services for Product and Personnel Certification Bodies, Greenhouse Gas Validation/ Verification Bodies, Certificate Issuers, and Eco-labeling and Environmental Declaration Certification Bodies
- ◆ International Policy and International Development Programs
- ◆ Government Relations Program
- ◆ Membership Services
- ◆ Workcred

NEW YORK OFFICE

25 West 43rd Street
Fourth Floor
New York, NY 10036
212.642.4900

- ◆ Primary functions in this office include:
- ◆ Administrative Operations
- ◆ American National Standards and ANSI-Accredited Standards Developer Programs
- ◆ Domestic and International Standards Facilitation Programs
- ◆ Publication Sales
- ◆ Membership Services

WE...

Are recognized by both the public and private sectors as the policy and coordination forum for the U.S. standards and conformity assessment community.

Approve standards as American National Standards (ANS) and safeguard the integrity and value of the ANS designation by requiring openness, balance, due process, consensus, and lack of dominance for all directly and materially affected interests.

Are the U.S. national member body to the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC, via the U.S. National Committee), and other non-treaty regional and international standards and conformity assessment organizations, facilitating access by U.S. parties and promoting U.S. interests.

Accredit standards developers, U.S. Technical Advisory Groups (TAGs) to ISO, and conformity assessment bodies, including organizations that certify products and personnel; bodies engaged in the validation and verification of carbon emissions data and carbon offsets; organizations that issue education and training certificates to workers; certification bodies assessing eco-labeling and environmental declarations; and, through the affiliate ANSI-ASQ National Accreditation Board (ANAB), management systems certification bodies, testing and calibration laboratories, inspection bodies, reference material producers, and forensics testing agencies.

Provide a means for assessing the need for new standardization activities and promote the consensus fulfillment of identified needs.

Interface with U.S. and other governments on standards and conformity assessment issues, and on technology; health, safety, and the environment; and global market access and technical barriers to trade (TBT) issues.

Provide a central resource for timely, relevant, and easily accessible information and education on activities related to standards and conformity assessment programs in the U.S. and abroad.



COORDINATION

ENHANCE

U.S. competitiveness

& innovation

through

standards and

comformance

activities

Back in 1918, ANSI (then known as AESC) was formed to serve as a coordination and oversight body to foster collaborative U.S. standardization activities for industrial efficiency, safety, and advancement. And today, while the rapid technologies and global markets have certainly progressed beyond what the original founders may have ever imagined, those core priorities haven't changed. ANSI strongly believes that when it comes to responsive standards development and compliance activities that meet the needs of U.S. competitiveness and innovation, the flexible standardization system ANSI leads is the most effective in the world.

The most recent example is our coordination work in the area of unmanned aircraft systems—UAS, or drones. This rapidly expanding market is projected to reach \$51 billion by 2025—but that depends upon the safe integration of these drones into our airspace. To drive this effort, the Institute launched the UAS Standardization Collaborative (UASSC) with strong support and leadership provided by the Federal Aviation Administration (FAA) and the Association for

Unmanned Vehicle Systems International, plus more than 175 participating organizations and government agencies. The group has already developed a draft roadmap identifying the standardization needs for this sector, with publication scheduled for late 2018.

Another current example is the Additive Manufacturing Standardization Collaborative (AMSC), which ANSI runs in partnership with America Makes. Additive manufacturing—or 3D printing—is now used in nearly every industry. In June 2018 the AMSC published a *Standardization Roadmap for Additive Manufacturing (Version 2.0)*, with support from the Department of Defense and 175 organizations; the roadmap has already been downloaded more than 1,000 times. Additionally, in March 2018 the Homeland Defense and Security Standardization Collaborative (HDSSC) coordinated with the InterAgency Board for Emergency Preparedness and Response to convene a meeting of federal agencies, standards development organizations, and responder stakeholder organizations to address first responder standards development priorities.



PARTNERSHIP

Serve as a **BRIDGE** between *public-sector policies and goals* & **private-sector solutions**

The original founding members of ANSI comprised five private engineering societies and three U.S. government entities—and we're still highly reliant on cross-sector cooperation to drive progress. For 100 years the Institute has worked to serve as a bridge facilitating the powerful public-private partnerships at the core of effective standardization solutions. For example, in 2018 ANSI partnered with the National Institute of Standards and Technology (NIST) and High Performance Building Coalition members on a very well-attended Capitol Hill event for expert discussions of codes and standards and their significant role in supporting strong, practicable, and resilient 21st-century infrastructure solutions—a key government priority.

Focusing on trade practices in developing regions, ANSI and the U.S. Agency for International Development (USAID) have built a strong record of collaborative success with the Standards Alliance, a public-private partnership that provides training related to implementation of the World Trade Organization (WTO) Technical Barriers to Trade (TBT) Agreement. A highly successful first phase of this initiative comes to a close in 2018, but ANSI was able to secure funding for work to continue in Africa, expanding on these capacity-building activities. This year the Standards Alliance carried out activities in seven countries, all involving strong participation from industry and government agencies. Most recently, a two-day training in Zambia focused on promoting the use of regulatory impact analysis and

providing practical training for Zambian regulators. Another workshop series covered best practices and risk-based approaches for consumer protection in Cote d'Ivoire, Ghana, and Senegal, and an event in Mozambique focused on metrology, the application of good regulatory practices, the use of standards and conformity assessment, and integrating government and private-sector perspectives. ANSI member participation in Standards Alliance activities is now at its highest level to date, with dozens of ANSI members involved in workshops and training events in many countries each year.

In 2018 ANSI was again awarded a U.S. Trade and Development Agency (USTDA) contract to implement Phase V of the U.S.-China Standards and Conformity Assessment Cooperation Program (SCCP), funding 20 more capacity-building workshops between 2018 and 2021. USTDA also approved a grant for ANSI to implement Phase II of the U.S.-India SCCP, working with the Confederation of Indian Industry and Bureau of Indian Standards on six workshops over the next two years in India. And the U.S.-Africa Clean Energy Standards Program (CESP) carried out the second of five workshops coordinated by ANSI and funded by USTDA. All of these events are excellent examples of the power of public-private partnerships to drive trade development around the world, and offer valuable opportunities for ANSI members to get engaged in these regions.

Support *and protect* the standards ecosystem

on behalf of the community *and the nation*

ANSI continually works to increase our collaborative work with government via ongoing targeted outreach to agencies and officials. 2018 saw a large number of high-level meetings between ANSI and U.S. government leadership, including discussions with the Food and Drug Administration (FDA) Center for Devices and Radiological Health on mobile health, and the Office of the U.S. Trade Representative (USTR) on ANSI's role in coordinating private-sector standardization and global representation of U.S. standardization interests. The Institute's leadership also met with highest-level officials from Commerce and USTR on actions to address ANSI member priorities such as technical barriers to trade as well as fair and equitable trade with key partners; the Department of Justice on the role of standards in advancing privacy frameworks in lieu of regulation; and Environmental Protection Agency (EPA) offices regarding potential partnership opportunities in a range of areas including environmental sensors and how voluntary standards and conformity assessment solutions can support chemical regulations. We also welcomed the White House's Office of Management and Budget (OMB) Office of Information and Regulatory Affairs administrator to an ANSI policy committee meeting to speak to members about OMB's regulatory reform activities and the importance of OMB Circular A-119. The common goal in these discussions is to leverage government partnerships at all levels to offer private-sector standardization and accreditation solutions for a wide range of national priorities.

In addition to government participation, effective standards and conformity assessment solutions depend upon getting today's corporate leaders more informed and engaged. In 2018 the Institute held an ANSI Executive Roundtable on strategic standardization and competitiveness, with invited executives from 10 large and highly innovative companies with global operations across multiple industry sectors. The event was an outcome of a 2017 meeting between ANSI leadership and

Commerce Secretary Wilbur Ross, where the importance of standards to U.S. innovation and competitiveness was a key topic of discussion. With active participation from the corporate executives, senior Commerce Department officials, and ANSI leadership, the roundtable enabled open, active discussion on how standards are helping drive corporate competitiveness, and how ANSI and the standardization community can better meet the needs of companies in the future. Building upon insights gained from the roundtable, the U.S. National Committee (USNC) of the International Electrotechnical Commission (IEC) hosted a highly successful Industry Symposium that brought together top experts and business leaders involved in critical infrastructure to discuss the increasing role standards can play in addressing infrastructure challenges.

ANSI continued its outreach to the ever-growing services sector, resulting in the creation of a Service Sector Initiative (SSI). The SSI has already conducted research identifying five key focus areas in need of new or enhanced standards and/or conformity assessment: ageing societies, dietary supplements, mobile health devices/health IT, retail, and unmanned aircraft systems. Collaborative work, events, and/or planning sessions have already been initiated in all of these areas, with more to come. For example, we've recently added a new retailers category to our membership structure as a two-year pilot program to gauge whether this approach facilitates greater engagement with that sector.

And looking ahead, we will be co-hosting a roundtable event in December 2018 with the Global Retailer and Manufacturer Alliance to discuss potential standardization coordination activities for the dietary supplement industry. Proactive outreach and active engagement are the common keys to the success of all these initiatives—identifying and then meeting the needs of ANSI members, constituents, and the nation.



OUTREACH



Ensure that the U.S. is strongly & effectively represented in global standardization fora

The IEC predates even ANSI, with its origins tracing back to a meeting of influential scientists and industrialists in St. Louis in 1904—and the U.S. was a driving force from day one. Then with the formation in 1926 of the International Standards Association (ISA—precursor to the International Organization for Standardization, or ISO), it wasn't long before ANSI was fully engaged in a wide range of international standardization activities. Then and now, serving as a U.S. national member for all major international and regional standards and conformance bodies is one of ANSI's most important roles. And one key aspect is working with members and partners to ensure that the U.S. maintains broad and effective participation and continues to be a global powerhouse in international standardization activities.

In 2018, ANSI initiated a two-year ANSI mentoring program for new sectors or organizations interested in assuming responsibility for administering international secretariats, and investigated new models of funding to support U.S. engagement in new international activities. The U.S. currently participates in 79% of the work of ISO and 83% of the IEC (through the USNC). These are very good numbers, but as many other countries are ramping up their participation we do have some room for improvement, particularly on the ISO side. ANSI's ISO team consistently brings together U.S. stakeholders to discuss proposals to form new ISO committees and identify potential interested parties for the U.S. Technical Advisory Group (TAG) administrator roles. Examples from 2018 included international activities focused on transaction assurance for e-commerce, sustainable finance, the

circular economy, and musical instruments, among others.

In an effort to enhance the efficacy of U.S. participation in these international committees, ANSI developed and circulated ISO guidance notes to U.S. individuals serving in leadership positions on procedural issues and changes that impact their roles. And we transitioned the mandatory training for those roles from the traditional instructor-led approach to a convenient on-demand e-learning module method—not only improving the user experience, but also providing more effective feedback and tracking.

In recognition of a project that has tremendous potential to improve lives on a global scale, in 2018 ANSI was awarded ASAE's "Power of A" Silver Award acknowledging our leadership, in partnership with Senegal, of ISO work toward an international standard for "reinvented toilets." With an estimated 2.5 billion people lacking access to clean and safe toilet systems, ANSI—as co-secretariat (with Senegal) for ISO Project Committee (PC) 305, *Sustainable Non-Sewered Sanitation Systems*—is dedicated to aiding the development of an international standard for toilets that remove pathogens and do not require traditional infrastructure such as sewer, water connection, or electricity. The ISO standard, reflecting the contributions of experts from more than 30 countries, is scheduled to be published later this year, and will be available for reference by manufacturers, governments, NGOs, and others to facilitate the large-scale deployment of reinvented toilet technologies.

INFLUENCE



LEADERSHIP

Assert U.S. leadership in regional & international standardization

Active participation has always been the key to success in global standardization fora, but leadership has an impact that can't be undervalued. ANSI has been very successful in its efforts to maintain a strong voice for U.S. interests, assuming and retaining policy and technical leadership positions in many critical sectors. As co-secretariat (with Kenya) of ISO Technical Committee (TC) 285 on *Clean Cookstoves and Cooking Solutions*, ANSI is proud to have supported the development of the recently released first international standard for laboratory testing of cookstoves, which will have significant impact on manufacturer guidelines to support the improvement of cookstove safety, quality, and performance for tens of millions of people across the globe.

Expanding our global leadership in emerging sectors, ANSI has assumed the secretariat for the newly formed ISO/IEC Joint Technical Committee (JTC) 1, Subcommittee (SC) 42 on *Artificial Intelligence (AI)*—proposed by the United States. AI is rapidly permeating nearly every facet of business and society, including healthcare, communication, transportation, and education, and standards and conformity assessment will play a critical role in the effective deployment of the technology globally. Additionally, following another successful U.S. proposal to ISO, the Institute assumed the secretariat of ISO Project Committee (PC) 318, *Community Scale Resource Oriented Sanitation Treatment Systems*. In the IEC realm, the USNC was approved to take on two new secretariat roles: IEC SC 46F, *RF and Microwave Passive Components*, and the newly established IEC Systems Committee (SyC)

on *Smart Manufacturing*. With the support of NIST, the Department of Homeland Security, and the National Institute of Justice, ANSI is able to continue to provide secretariat administration of ISO/IEC JTC 1, SC 37 on *Biometrics*. And ANSI now leads the development and implementation efforts for the new International Accreditation Forum (IAF) document MD 20, *Generic Competence for AB Assessors: Application to ISO/IEC 17011*.

Among many other individual volunteer leadership positions currently occupied by ANSI or USNC management and staff, we serve as one of seven foreign advisors to China's Standardization Expert Committee; chair of the IAF Greenhouse Gas/Energy Working Group; vice chair of the International Halal Accreditation Forum; member of the Pacific Accreditation Forum (PAC) Executive Committee; member of the PAC MLA Management Committee; chair of the PAC Working Group (WG) on ISO/IEC 17024; chair of the new IEC Asia Pacific Cooperation Forum; and convener of the IEC Standardization Management Board Strategic Group (SG) 12 on *Digital Transformation*. Additionally, with the U.S.'s James M. Shannon, former president and CEO of the National Fire Protection Association (NFPA), continuing his term as IEC president, and by formally announcing the U.S. hosting of the 2022 IEC General Meeting in San Francisco, the USNC is demonstrating the highest level of leadership and commitment on behalf of the United States. And lastly, our good colleague John Walter, former president of the Standards Council of Canada, our partner national standards body to the north, continues as ISO president.

Boost regional relationships to enhance trade in key market sectors

According to a *Federal Reserve Bulletin* from 1919, the average yearly domestic exports for the United States in 1918 totaled \$5.2 billion. And in 2017? \$2.3 trillion! We've come a long way in 100 years, and ANSI is committed to supporting strong trade growth. In nearly every area of the world, ANSI is actively engaged in relationships with counterpart organizations and key officials to boost bilateral cooperation and reduce trade barriers.

In 2018, the Institute conducted a number of very successful meetings with the U.S.'s largest trading partners, including a highly productive conference with Germany focused on cybersecurity, securing future technologies, and solutions for smart manufacturing, mobility, and agriculture. ANSI signed an updated memorandum of understanding with the Standards Council of Canada (SCC) that pledges to facilitate ongoing cooperation, and recognizes the desirability of the global use of international standards. And ANSI's president and CEO led a delegation to China for a series of high-level outreach meetings and a U.S.-China Industry Roundtable on Enterprise Standards. Along with the U.S. Embassy commercial counsellor, leaders from China's State Administration for Market Regulation, the Standardization Administration of China (SAC), and the Chinese National Institution for Standardization (CNIS) joined more than 100

participants from 11 ANSI member organizations, various Chinese industry associations, and academia for discussions of the implementation of China's revised Standardization Law. For several years now, ANSI's China Program has been highly active in monitoring the country's ongoing standardization reform and providing pertinent updates to members as they unfold.

In IEC activities, the USNC officially joined the IEC Country Mentoring Program, establishing mentoring relationships with both the Caribbean Regional Organisation for Standards and Quality (CROSQ) and with Vietnam. And in the ISO arena, ANSI hosted the ASN secretary from Senegal—the co-secretary with ANSI in twinning arrangements for ISO PC 305 and PC 318—for a four-week visit as a mentoring exercise funded by the Bill & Melinda Gates Foundation. The hosted visit focused on key areas within ANSI that would be beneficial to ASN as they look to expand their operations. ANSI also prepared a successful proposal for our fourth project with the Gates Foundation, securing continued funding to support national recognition of the new ISO 30500 "reinvented toilet" standard for *Non-sewered sanitation systems—Prefabricated integrated treatment units—General safety and performance requirements for design and testing*, in key markets such as China, India, and South Africa.

REGIONAL IMPACT

Expand

accreditation services &
program recognition

If you take the 100-year view, ANSI's accreditation services programs are among the Institute's newer activities—and they have tremendous potential for continued growth. As the reputation and reach of ANSI accreditation continue to expand even further, governments and organizations both domestically and globally bestow recognition on these third-party accreditation programs.

This year, ANSI was recognized by the FDA to offer accreditation in accordance with their Food Safety Modernization Act (FSMA) regulations for *Accreditation of Third-Party Certification Bodies to Conduct Food Safety Audits to Issue Certifications*, and in August 2018 the Institute granted its first accreditations under this program. The FDA also recognized ANSI accreditation under the Conference for Food Protection Program. And in a further affirmation of ANSI accreditation's positive impact on food safety, the FDA released a 10-year study of more than 800 retail food establishments that showed a positive impact of ANSI-accredited food protection manager certification on public health. Globally, ANSI is the sole U.S. accreditation body recognized by the following major food safety scheme owners: BRC, GLOBALG.A.P, IFS, CanadaGAP, PrimusGFS, SQF, and GAA BAP.

Further expanding its portfolio, in 2018 ANSI launched a pilot program to assess the competence

of certification bodies in relation to the EPA's *Final Rule on Formaldehyde Testing on Composite Wood Products*. ANSI is recognized by the EPA to provide accreditation services under the rule, which is intended to reduce exposure to formaldehyde emissions from certain wood products produced domestically or imported into the United States.

ANSI's greenhouse gas program is collaborating with the FAA on the U.S. implementation of the International Civil Aviation Organization's Carbon Offsetting and Reduction Scheme, which will require ISO 14065, *Greenhouse gases - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition*, accredited verification.

The Institute also successfully demonstrated compliance with the accreditation body qualifications included in the *NIST Requirements & Application for U.S. Conformity Assessment Bodies Seeking Electromagnetic Compatibility Directive 2014/30/EU Notified Body Status*, as well as the *NIST Requirements & Application for U.S. Conformity Assessment Bodies Seeking EU Radio Equipment Directive 2014/53/EU Notified Body Status*.

And ANSI continues to be the sole accreditation body under the U.S. Department of Health and Human Services Office of the National Coordinator (ONC) program for electronic health records.

ACCREDITATION



INNOVATION

Support *digital transformation* & leverage new technology to enhance processes & expand impact

Throughout our history, ANSI has worked to continually enhance the U.S. standards and conformity assessment community's success by providing new tools and processes that help our members and customers become effective stewards for standardization within their own companies, organizations, and agencies. Back in 1918, organizational innovations may have included the ability to drive oneself to meetings in a car, or tolerate summer heat in the office with an electric fan! But today's innovations seem to know no limits.

The Institute is in the midst of a number of technology-based upgrades and enhancements to our platforms and processes that will move us forward on the path to an innovation-ready infrastructure. Institute-wide, we've implemented a digital transformation strategy to efficiently leverage the best IT solutions to meet ANSI's core business needs. The first major project within that model, well underway, is the development of a new database system to improve the delivery of

conformity assessment services across our accreditation portfolio.

We've also initiated a comprehensive redevelopment plan for all of our web properties, starting with our standards webstore, which has been completely redesigned for a late 2018 re-launch. We've migrated all subscription customers to Standards Connect, a platform with enhanced functionality and ease of use. Subsequent ANSI web property redevelopments will follow, enabling much more dynamic and user-friendly access to and engagement with all ANSI resources and activities. And to ensure our efforts actually meet our community's needs, we launched an ongoing ANSI.org user survey to compile data and help guide us in defining requirements and functionality.

We expect these efforts to increase our ability to gather market intelligence across audience segments and enable all ANSI programs to succeed.

Respond to **member** & *industry needs* & facilitate **standardization** **engagement**

As coordinator of the U.S. standardization system for 10 decades, ANSI keeps a close watch on issues that affect the way standards are developed and the ongoing vitality of the U.S. system. From our earliest days, we've worked to maintain a strong voice on behalf of the community and ensure the continued value and integrity of voluntary standards development and conformity assessment processes. And in an effort to collect relevant input from across our community, in 2018 we held a very well-attended workshop for open stakeholder discussion of the ANSI *Essential Requirements* and recommendations for improving the American National Standard (ANS) process. Among the dynamic discussions, a commissioner of the U.S. Consumer Product Safety Commission (CPSC) shared his perspectives on how the CPSC and voluntary consensus standards development organizations work collaboratively and cooperatively for the public good.

Discussions about refinements to ANSI's procedural requirements—which reflect core due process principals that relate to the National Technology Transfer and Advancement Act, OMB Circular A-119, and international guidance—continue, as ANSI strives to promote a relevant and nimble ANS process. ANSI's openness to continuous program improvements will benefit the standardization system overall, making it stronger and more responsive to the changing needs of stakeholders.

Currently, the ANSI Executive Standards Council (ExSC) is considering a number of relevant procedural issues including: commercial terms and conditions; appeals process revisions; consumer (and other stakeholder) engagement; and guidance for ANSI-Accredited U.S. TAGs to ISO and ANSI-Accredited Standards Developers (ASDs). In further efforts to improve internal processes in support of the ANS process, new webforms for proposed ANS were introduced, and a new web service is under development offering streamlined submittal processes for use by all ASDs. The Institute also offered webinars to all ASDs and ANSI-accredited U.S. TAGs to ISO to help clarify procedural and compliance requirements and answer questions.

And in public responses, ANSI submitted a statement to the Conference on Food Protection supporting the addition to the Model Food Code of language identifying ANS as consensus standards, noting that ANS are directly relevant for consideration by the FDA and responsible state and local agencies, consistent with U.S. law and policy. The Institute also submitted comments to USTR on the misuse of ANSI accreditation marks and logos in India, supporting USTR's focus on ensuring protection of intellectual property rights and fair and equitable market access for U.S. entities that rely on intellectual property protection.



STEWARDSHIP



Engage *new constituents* & bolster ANSI's role *in the* **standards ecosystem**

When Paul G. Agnew took to the helm in 1919 as the first permanent secretary and head of staff at AESC (ANSI's precursor), he undoubtedly faced the challenge of spreading the word about the important role of this new organization to U.S. business, government, industry, and society as a whole. 100 years later, we still work every day to expand public understanding of ANSI's value in fostering U.S. competitiveness and quality of life. In recognition of our centennial this year, we initiated a yearlong campaign of special events, communications output, and resources for public engagement—including an anniversary logo, history video, calendar, timeline, wall art sculpture, a gala event at Union Station in Washington, DC, as well as a New York City celebration, and numerous press releases and social media campaigns—highlighting the impact of ANSI and its leadership role in the standardization community for 10 decades (see www.ansi.org/100). We also took the opportunity to research and compile updated data for a new organizational statement that accurately reflects the Institute's breadth and impact today: ANSI represents and serves the diverse interests of more than 270,000 companies and organizations and 30 million professionals worldwide.

And while our community is clearly strong, we also worked throughout the year to attract new constituents, representing diverse and emerging industry sectors, as we've repeatedly heard that engagement of the next generation is a key

priority across the U.S. standardization community. In an effort to reach out and attract tomorrow's standards leaders, we worked with ANSI members from industry and government to hold our second Standards Negotiation Competition for university teams, as well as a third simulation event during World Standard Week 2018. And in a tremendous collaborative effort spreading the word about the importance of standards and ANSI to literally tens of thousands of students and adults, we executed a highly popular interactive exhibit at the USA Science and Engineering Festival in Washington, DC, demonstrating how "Standards Are Everywhere" and why they're so important to our everyday lives. As part of the event, ANSI collaborated with ten partnering organizations on a "U.S. Standardization System Passport" challenge, which inspired hundreds of kids to visit and collect "passport stamps" from each of the standards organizations' festival booths and get educated about standards.

And finally, ramping up its own next-generation outreach activities, the USNC's Young and Emerging Professionals (YEP) Committee hosted its first webinar, "An Introduction to the USNC and IEC: A Call to Action for Young Professionals," with over 70 participants from industry, government, and academic organizations who learned about the positive benefits of USNC participation and the opportunities to help shape the future of international standardization and conformity assessment in electrotechnology.

EXPANSION



Strengthen the quality & relevance of the U.S. workforce by fostering an **improved** credentialing system

ANSI's Workcred affiliate is a prominent example of successful expansion of the Institute's activities into diverse areas of impact—in this case focused on increasing the quality, market value, and effectiveness of credentials. In 2018 Workcred released a report funded by the NIST Hollings Manufacturing Extension Partnership (MEP) that explores how credentials are currently used in hiring and retention practices, and how credentialing can be improved to advance the manufacturing industry. Entitled *Examining the Quality, Market Value, and Effectiveness of Manufacturing Credentials in the United States*, the report is based on findings drawn from survey and focus group participants from a wide range of manufacturing sectors, facility sizes, geographic regions, and job roles. The report provides insights on how credentials are used and valued by industry at a time when U.S. manufacturers report a skills mismatch. Workcred and NIST MEP are now planning roundtables with stakeholders to

discuss the findings and recommendations in the report and identify actionable steps for implementation.

Another exciting project has Workcred partnering with the Center for Employment Opportunities and Jobs for the Future on a U.S. Department of Labor grant. This important initiative is helping young adults recently released from incarceration to gain skills, quality credentials, and work experience for a successful transition to a stable and productive life. Workcred is also collaborating with ANSI members to examine the viability of creating certifications for health and safety of construction and maintenance personnel and for infectious control professionals. With such prodigious progress and growth since its 2014 launch, Workcred offers opportunities for ANSI to engage new constituents and build partnerships as it strengthens the U.S. workforce by improving the credentialing system.

WORKCRED

ANYONE'S
BY THE
NUMBER 800 ER \$

MEMBERSHIP

Total ANSI Members

1,291

797 Company
349 Organization
72 Government
44 International
29 Educational

ANS & ASIDS

Approved American
National Standards

12,064

ANSI-Accredited
Standards Developers

239

TECHNOLOGY COMMUNITY

USNC participation in the International Electrotechnical Commission (IEC)

169

Participating "P" memberships

169

Technical advisory groups

14

U.S.-administered technical committee (TC) secretariats

12

U.S.-administered subcommittee (SC) secretariats

30

U.S.-held chairs

ISO TECHNOLOGY COMMUNITY

ANSI participation in the International Organization for Standardization (ISO)

572

Participating "P" memberships

236

Technical advisory groups

34

U.S.-administered technical committee (TC) secretariats

73

U.S.-administered subcommittee (SC) secretariats

101

U.S.-held chairs

ANSI ACCREDITATIONS

81

Product certification programs

70

Personnel certification programs

5

Conference for food protection

50

Certificate programs

20

Greenhouse gas validation and verification programs

4

Eco-labelling eligible programs

ANAB ACCREDITATIONS

76

Quality management systems certification bodies

53

Environmental management systems certification bodies

269

Other management systems accreditations

1782

Laboratories

21

Reference material producers

16

Proficiency testing bodies

62

Forensic inspection bodies

2016 Revenue Breakdown

\$53 million

55% International standards facilitation

14% Accreditation services

13% Fee-based programs

11% Domestic standards facilitation

7% Membership & policy development

Operational Expenses

\$48 million

37% International standards facilitation

17% Management & general

15% Fee-based services

12% Accreditation services

10% Domestic standards facilitation

7% Member services & policy development

2% Membership & administration

CONSOLIDATED FINANCIALS

FINANCIAL POSITION

As of December 31, 2017 & 2016

	2017	2016
ASSETS		
Cash and cash equivalents	\$23,598,864	\$11,686,614
Investments	\$10,199,244	\$8,848,641
Accounts receivable, net		
Publications and royalties	\$5,056,475	\$6,325,866
Program support, accreditation, dues, and other	\$1,771,721	\$2,892,567
Prepaid expenses and other assets	\$1,949,477	\$1,637,823
Investment in ANAB	\$2,055,589	\$1,615,972
Property and equipment, net	\$979,530	\$526,578
TOTAL ASSETS	\$45,610,900	\$33,534,061
LIABILITIES		
Accounts payable and accrued expenses	\$12,166,647	\$10,267,409
Deferred dues and fee income	\$9,985,156	\$6,451,577
Pension liability	\$3,908,673	\$2,532,746
Deferred rent	\$958,833	\$1,002,070
TOTAL LIABILITIES	\$27,019,309	\$20,253,802
NET ASSETS		
Unrestricted		
Operating fund	\$8,825,277	\$4,668,027
Board designated permanent reserve	\$8,738,726	\$7,605,129
Specific-purpose funds	\$852,231	\$809,421
Total unrestricted	\$18,416,234	\$13,082,577
Temporarily restricted	\$175,357	\$197,682
TOTAL NET ASSETS	\$18,591,591	\$13,280,259
TOTAL LIABILITIES AND NET ASSETS	\$45,610,900	\$33,534,061

STATEMENT OF ACTIVITIES

As of December 31, 2017 & 2016

	2017	2016
REVENUE AND SUPPORT		
Member services and policy development	\$3,841,887	\$3,795,066
International standards facilitation	\$29,103,373	\$27,028,791
Domestic standards facilitation	\$6,000,266	\$5,739,387
Accreditation services	\$7,521,400	\$7,086,441
Fee-based programs	\$6,842,104	\$5,332,396
TOTAL OPERATING REVENUE AND SUPPORT	\$53,309,030	\$48,982,081
EXPENSES		
Program-related		
Member services and policy development	\$3,557,253	\$3,110,989
International standards facilitation	\$17,768,294	\$16,554,314
Domestic standards facilitation	\$4,624,001	\$4,427,390
Accreditation services	\$5,733,587	\$5,167,959
Fee-based services	\$7,488,382	\$4,689,373
	\$39,171,517	\$33,950,025
Supporting services		
Membership and administration	\$937,811	\$957,240
Management and general	\$8,059,457	\$7,973,529
	\$8,997,268	\$8,930,769
TOTAL OPERATING EXPENSES	\$48,168,785	\$42,880,794
Change in net assets from operations	\$5,140,245	\$6,101,287
Nonoperating activities		
Investment return, net	\$1,606,364	\$1,424,304
Pension-related changes other than net periodic pension cost	(\$1,435,277)	(\$2,124,909)
Total nonoperating activities	\$171,087	(\$700,605)
Change in net assets	\$5,311,332	\$5,400,682
Net assets, beginning of year	\$13,280,259	\$7,879,577
Net assets, end of year	\$18,591,591	\$13,280,259

WOMEN Members & Management



MEMBERS



2Wire, Inc.	Aesynt, Inc.	American Association of Physicists in Medicine	American Petroleum Institute	APCO International - Association of Public Safety Communications Officials Int'l	The Association of International Product Marketing and Management	Bank of the West	Booz Allen Hamilton
3-A Sanitary Standards, Inc.	Agency for Healthcare Research & Quality	American Association of Radon Scientist and Technologists, Inc.	American Renewable Energy Standards and Certification Association	Apex Management & Special Events Inc.	Association of Pool and Spa Professionals	Banner Engineering	Boss Holdings, Inc.
3D PDF Consortium	Agilent Technologies	American Association of Textile Chemists & Colorists	American Society for Nondestructive Testing	API Weinschel, Inc.	Association of Strategic Alliance Professionals	Barrick Gold Corporation	Bre America, LLC
A. K. Stamping Co., Inc.	Agility Clinical	American Bankers Association	American Society for Quality	APPA - Leadership in Educational Facilities	Association of Transportation Safety Information Professionals	Barrick Nevada	Bridgers & Paxton Consulting Engineers
A.O. Smith Corporation	AIM	American Bearing Manufacturers Association	American Society of Agricultural and Biological Engineers	Apple, Inc.	Assurant Inc.	Barry Wehmiller Companies, Inc.	Bridgestone Americas Inc
A2LA	Air Conditioning Contractors of America	American Board of Multiple Specialties in Podiatry	American Society of Baking	Appvion	ASTM International	Battery Council International	Bridgestone Bandag, LLC
AAC Inc.	Air Methods	American Boat & Yacht Council	American Society of Civil Engineers	Architectural Woodwork Institute	Atkins Energy Americas	Bausch & Lomb Incorporated	Brixton Assessment Services
ABB Incorporated	Air Movement & Control Association International	American Brush Manufacturers Association	American Society of Crime Laboratory Directors	Arconic Inc.	Atlas Lighting Products, Inc.	Bayer HealthCare, LLC	Broadridge Financial Solutions
Abbott Laboratories	Airbiquity	American Chemistry Council	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.	Arctic Slope Technical Services	Audiovisual and Integrated Experience Association (AVIXA)	BB&T Corporation	BroadSoft, Inc.
AbbVie	Air-Conditioning, Heating, and Refrigeration Institute	American Composites Manufacturers Association	American Society of Landscape Architects	ARGO AI, LLC	Australian Pipeline Valve	BBA Aviation USA, Inc.	Broan-Nu Tone LLC
Ability Network	Airlines Reporting Corporation	American Concrete Institute	American Society of Mechanical Engineers	ARMA International	Auto Glass Safety Council	BC Industrial, Inc.	Broward Sheriff Office Crime Lab
ABRET Neurodiagnostic Credentialing and Accreditation	Alabama Department of Forensic Sciences	American Council of Independent Laboratories	American Society of Plumbing Engineers	Armstrong World Industries, Inc.	Automation Solutions of America	BD Diagnostics Becton, Dickinson and Company	Brown Stove Works
AbsolutAire	Alabama Technology Network	American Dental Association	American Society of Safety Professionals	Arris Group Inc.	Automotive Industrial Marketing Corp (AIMCO)	Beacon Industries Inc.	Browning
ABTech Inc	Alaska Airlines	American Express Travel Related Services Company, Inc.	American Type Culture Collection	Artegraft, Inc.	Automotive Industry Action Group	Beckman Coulter Inc.	BSI Group America Inc.
Accreditation Board of America LLC	Alcoa	American Gas Association	American Water Works Association	Artisan Partners, Limited Partnership	Automotive Lift Institute	Bel Fuse Inc	Builders Hardware Manufacturers Association
Accreditation Canada	Alert Logic, Inc.	American Gear Manufacturers Association	American Welding Society	ARUP Laboratories	Autonomous Solutions Inc.	Bellino Srl	Building Owners & Managers Association International
Accredited Snow Contractors Association	Alliance Data Systems	American Glovebox Society	American Wind Energy Association	Ashland, Inc	AutonomouStuff, LLC	Bemis Company Inc.	Building Performance Institute
Accredited Standards Committee X12, Inc.	Alliance for Telecommunications Industry Solutions	American Health Information Management Association	American Wood Council	ASIS International	Avanade, Inc.	Benedictine University	Bulk Handling Systems
"Accredited Standards Committee X9, Inc. Financial Industry Standards"	Allied Tube & Conduit/Electrical Division	American Imaging Management	American Wood Protection Association	Associated Air Balance Council	Avanos Medical Inc.	Bentley Systems Incorporated	Bunn Corporation
Accuvant Inc.	Alpha Modalities LLC	American Institute of Aeronautics and Astronautics	American Wood Council	Associated Laboratories Inc	Avaya, Inc.	Benz Research and Development	Byton
Aclara Technologies LLC	Altera Corp	American Institute of Baking	American Wood Protection Association	Association for Challenge Course Technology	Avon Protection Systems	Berkshire Hathaway Energy Company	CACI International, Inc.
Acoustical Society of America	Alticor	American Institute of Steel Construction	AmericanHort	Association for Print Technologies	Axxess	Best Cabinet & Granite Supply INC	Cadence Design Systems, Inc.
Act-On Software, Inc.	The Aluminum Association, Inc.	American International Group Inc.	AMS Technology Consulting LLC	Association for Rubber Products Manufacturers	Ayla Networks	BHP Billiton Petroleum (Deepwater) Inc.	Cal-Comp USA
Adaptimmune LLC	Alyeska Pipeline Service Company	American Iron & Steel Institute	AmSpec LLC	Association for the Advancement of Medical Instrumentation	B11 Standards Inc.	BIC Corporation	California Independent System Operator Corporation
Adobe Systems Incorporated	AMADIS Inc	American Ladder Institute	Anderson Hydra Platforms	Association of Commercial Diving Educators	Babcock Canada	BICS, Inc.	California Lottery
ADP Inc.	Amazon	American Nuclear Society	ANSI-ASQ National Accreditation Board	Association of Energy Engineers, Inc.	BAE Systems	BIFMA International	California State University San Marcos
Adtran Inc.	AMC Institute	American Oil Chemists Society	Anthem Gold	Association of Equipment Manufacturers	Baker & McKenzie Global Service	BioAffinity, Inc.	California State University, Office of the Chancellor
Advanced Integration, LLC	American Academy of Forensic Sciences	American Optometric Association	Antonin Scalia Law School	Association of Home Appliance Manufacturers	The Baker Group	BioNetwork	Camargo Pharmaceutical Service
Advanced Medical Technology Association	American Architectural Manufacturers Association	American Orthotic & Prosthetic Association	AOAC International		Ball Metal Beverage Container Corporation	Bio-Rad Laboratories	Capital Group Companies, The
Advantacom Inc.	American Architectural Metal Manufacturers		APA - The Engineered Wood Association		Baltimore Police	Bison Gear & Engineering Corp	Capital Management Consultancy & Development Center
AEGIS.net, Inc.					Bank of America	Black & Veatch Special Projects Corporation	Caradigm USA LLC
Aerojet Rocketdyne Inc.					Bank of Hawaii	Black Diamond Structures	Cargill
Aerospace Industries Association						BlackBerry Corporation	Cargill, Inc.
AES Engineering, LLC						BNY Mellon - Information Risk Management	
						Boeing Company	

MEMBERS



The Carpet & Rug Institute	College of American Pathologists	CoreLogic	Depository Trust and Clearing Corporation (DTCC)	Edevate	Essential Dental Systems	Forsmarks Kraftgrupp AB	GIAC - Global Information Assurance Certification
Cascade Microtech	Colorado Bureau of Investigation	Corero Network Security	Design Chain Associates, LLC	Edison Electric Institute	E-Tech, Inc	Fossil Group	Giles Enterprises Inc.
Cast Iron Soil Pipe Institute	Columbus McKinnon Corporation	Cornell University EH&S	Detector Electronics Corp.	Educational Testing Service	Evolv, LLC	Frank Calandra Inc	Gilson Inc.
Castle Worldwide	Columbus Police Crime Laboratory	Corning Incorporated	Deytec, Inc.	Edwards Lifesciences	Evonik Corporation	Frasca International	GL Noble Denton
Castlight Health Inc.	Comau Inc.	CoServ	Diageo	EIFS Industry Members Association	Exelon Corporation	Fraunhofer USA, Inc.	Glazing Industry Secretariat Committee
Caterpillar Inc	Combe Incorporated	Cotton Incorporated	Dialight Corporation	Eiko Global, LLC	Experian	Freddie Mac	Global Inventures, Inc.
Caveon, LLC	Commission on Accreditation of Ambulance Services	Coulter Companies, Inc.	DICKEY-john Corporation	E-ISG Asset Intelligence	Express Calibration Services	Freeport McMoRan Sierrita Inc	Global Skills Exchange Corporation
CCAD LLC	Commission on Accreditation of Medical Transport Systems	Covance Inc.	Diesslin Group, Inc.	Electrical Apparatus Service Association	Factory Automation Systems	Freescale Semiconductor Inc.	GM Financial
Cell Signaling Technology Inc.	Commissioning Agents Inc.	CPLSO	Digimarc Corporation	Electro Industries	Family Farms Group	Fujitsu America, Inc	GNK Driveline, North America, Inc.
The Center for Responsible Enterprise and Trade	Commonwealth of Massachusetts	Crane Inspection & Certification Bureau	Dimensional Metrology Standards Consortium, Inc.	Electronic Components Industry Association	Family Health International	Fulbright & Jaworski LLP	
Center Point Energy	Compassion International	Cross Bore Safety Association	DirectTrust.org	Electronic Security Association, Inc.	Faraday & Future	Fulford Certification	
Centers for Disease Control & Prevention	Composite Panel Association	Crown Equipment Corporation	Discover Financial Services	Electroswitch Corporation	Faxitron Bioptics, LLC	Futaba Indiana of America Corporation	Google Inc.
Central Station Alarm Association	Compressed Air & Gas Institute	CSA America, Inc.	Diversified Inspections/ITL	Elite Electronic Engineering Inc	FC Frost Ltd.	G. Wandling & Associates	Gotion
Cerner Corporation	Compressed Gas Association	CSGI	DLA Piper LLP (US)	Ellucian	Fed Ex Services	G.O.D. Food Safety Services	The Green Building Initiative
Certified Automotive Parts Association	Compu-ecture, Inc.	CSI Telecommunications, Inc.	Document Center Inc.	Emergency Management Accreditation Program	Federal Aviation Administration	G2, Inc.	Green Business Certification Inc.
Certified Wireless Network Professionals	Computer Science Corporation	CSST-Centre De Documentation	Dolby Laboratories Inc	Emerson Electric Co	Federal Housing Finance Agency	Garmin International	GS 1 US
CGFNS International	Concept QA Labs	CTC Global Corporation	Donaldson Company, Inc.	Emirates Technical & Safety Development Centre	The Federal Insurance Company	Gartner, Inc.	GTW Associates
The Chamberlain Group, Inc.	Concept Systems Inc.	Custom Protect Ear, Inc.	Door & Access Systems Manufacturers Association	Emser Tile LLC	Federal Trade Commission	Gates Corporation	Guardian Industries Holdings, LLC
Channel Products, Inc.	Concrete Reinforcing Steel Institute	CVS Caremark Corporation	The Dow Chemical Company	EMSL Analytical, Inc.	Fenestration Testing Lab, Inc.	GE Appliances-a Haier Company	Halyard Health
Channellock Inc	Cypress Semiconductor Corp.	Cyprss Semiconductor Corp.	Dow Corning Corporation	Encore Wire Corporation	The Fiber Optic Association, Inc.	Geico Corporation	Hand Tools Institute
Charleston Area Medical Center	D.Light Design, Inc.	Daikin Applied	DQS Inc	Energistics Consortium	Financial Services Technology Consortium	Gemological Institute of America	Hanger, Inc.
Chelan County Power	Dana Holding Corporation	Dana Holding Corporation	DRI International, Inc.	Energy Solutions Inc.	FireEye Technologie Deutschland GmbH	Gemtor Inc	Hardwood Plywood & Veneer Association
Chicago Mercantile Exchange, Inc.	Data2 Corporation	Data2 Corporation	Dun & Bradstreet	Ensafe Institute for Health, Safety & Counselling Training Ltd	First Environment, Inc.	Genentech	Harger Lightning & Grounding
Cigna Corporation	DataStax	DataStax	DuPont Engineering	Entertainment Services and Technology Association	FIS Global	General Dynamics-Ordinance and Tactical Systems, Munition Services	Harley Davidson Motor Company
Cisco Systems, Inc.	Dealer Tire	Dealer Tire	Duquesne Light Company	Environmental Protection Agency	Fisher-Price, Inc.	General Electric Co	Harris Health System
Citigroup Technology Inc.	Decision Sciences International Corporation	Decision Sciences International Corporation	Dynabrade, Inc	EOS/ESD Association, Inc	FlightSafety International Inc.	General Mills	Harris IT Corp
City of Grand Rapids	Deere & Company	Deere & Company	DynCorp International	Eracent, Inc.	Florida Department of Law Enforcement	Genesis Systems Group	The Hartford
City of Henderson - Fire - Safety	Dell Inc.	Dell Inc.	E. D. Bullard Company	Ergon Inc.	Florida Hospital	Genome ID Group, LLC	Health and Safety Institute
Classic Industries	Delphi Automotive Systems, LLC	Delphi Automotive Systems, LLC	EaglePitcher Technologies, LLC	Ericsson Inc	Fluence Automation	GeoEye	Health Level Seven
Clinical and Laboratory Standards Institute	Delta Dental of California	Delta Dental of California	Eastman Chemical Company	Ernst & Young	Fluid Controls Institute	George Washington Institute of Public Policy	Health Physics Society
Clydesdale Consulting	DeltaHawk Engines, Inc.	DeltaHawk Engines, Inc.	Eastman Kodak Company	ESAB	Flushmate	Georgia Quick Start	Helikon.net
CM Services, Inc	Deluxe Entertainment Services Group	Deluxe Entertainment Services Group	Eaton Corporation	ESI	FM Approvals	Georgia Tech Energy and Sustainability Services	Hemisphere GPS
CNA Insurance	DEN Technologies Corp	DEN Technologies Corp	EBW Electronics		FMC Process Tech Center	Gesmer Updegrove LLP	Hemolife Medical, Inc.
Cognate BioServices, Inc.	Dental Trade Alliance	Dental Trade Alliance	ECC Corporation		Focus Imaging	GFS Chemicals, Inc.	HemoSonics, LLC
Cognition Corporation	Department of Forensic Sciences (DFS)	Department of Forensic Sciences (DFS)	ECCMA		Food & Drug Administration		Henry County Hospital
			EclinicalWorks		ForgeRock		HERE North America LLC
			Ecore International		Forming & Shoring Solutions		Hertz Corporation

MEMBERS



Hexcel Corporation	Indianapolis Power & Light Co	International Center for Integrative Systems Inc.	Investment Industry Regulatory Organization of Canada	Kitchen Cabinet Manufacturers Association	LongView International Technology Solutions, Inc	Mechanical Power Transmission Association	Monsanto Company
HIBCC	Industrial and Crane Services, Inc.	International Code Council	Iowa DCI Crime Laboratory	Klein Tools Inc.	Loram Maintenance of Way, Inc.	MedBiquitous Consortium	Monster Tree Service of Portland
Higher Logic	Industrial Fasteners Institute	InterNational Committee for Information Technology Standards	IPC – Association Connecting Electronics Industries	Kloeckner Metals	Los Angeles County Sheriffs Department	Medical Advantage Group	Moody's Corporation
Hilton Software LLC	Industrial Heating Equipment Association	International Dynamic Advisors, S.L.	IRRAS	Kloeckner Metals Corporation	The Lubrizol Corporation	Medical Alert Monitoring Association	Motorola Mobility LLC
Hines Industries	Industrial Steel Drum Institute	InterNational Electrical Testing Association	Irrigation Association	Koch Business Solutions	Lumenpulse Lighting Inc.	Medical University of South Carolina	Mount Airey Group, Inc.
Hitachi Global Storage Technologies	Industrial Truck Standards Development Foundation, Inc	International Facility Management Association	Islamic Food and Nutrition Council of America (IFANCA)	Kohler Power Systems	Lutron Electronics Co. Inc.	Medici Land Governance	MTC Holding Corporation
HMC Holdings LLC	Information Technology Industry Council	International Institute of Ammonia Refrigeration	Islamic Society of North America	Koinonia Juice Plant	Lyft	MedImmune LLC	MTConnect Institute
Hobart Brothers Company	Ingredient, Inc	International Kitchen Exhaust Cleaning Association	Itron, Inc.	KPMG LLP	Lymphology Association of North America	Mega Fortris Marketing, Inc.	Mueller Company, LLC
Home Innovation Research Labs	Institute for Credentialing Excellence	International Light Transportation Vehicle Association, Inc.	J. J. Keller & Associates, Inc.	Kraton Chemical	The M Companies	Memorial Medical Center of West Michigan	N3B Los Alamos
Homewerks Worldwide, LLC	The Institute for Market Transformation To Sustainability	International Monetary Fund	James Madison University	Kronos Inc	MA Mortenson	Mentor Graphics Corporation	NACE International
Honda North America	Institute of Environmental Sciences & Technology	International Paper	James McHugh Construction Co.	The Label Printers	Magna International	Mercedes-Benz US LLC	Nalu Medical
Honda RD	Institute of Inspection, Cleaning and Restoration Certification	International Quality Certification Services	Janssen Pharmaceuticals Inc.	Lapp Insulators LLC	Magna Powertrain Sterling Heights	Messer Construction Co.	NASA Headquarters
Honeywell Inc.	Institute of International Container Lessors	International Safe Transit Association	JBT Corporation	Las Vegas Sands	MagTek Inc	MET Laboratories, Inc	National Air Duct Cleaners Association
Houston Methodist Research Institute	Institute of Nuclear Materials Management	International Safety Equipment Association	JEDEC Solid State Technology Association	Laser Institute of America	Maine State Police Crime Laboratory	Metal Hose Manufacturing Association	National Archives & Records Administration
HP Inc.	Insulated Cable Engineers Association	International Society of Arboriculture	Jenner & Block LLC	Laticrete International, Inc.	Makita USA	Methode Electronics, Inc.	National Association of Architectural Metal Manufacturers
HRB Tax Group, Inc.	Intel Corp	International Society of Automation	Jessup Manufacturing Company	Lear Corporation	ManageMen, Inc.	Metsaw Systems Inc	National Association of Manufacturers
Huawei R&D USA	Intellibind Technologies LLC	International SOS Government Services, Inc.	JLG Industries	Leatherman Tool Group, Inc.	Manufacturers Standardization Society	Mettler Toledo Inc.	National Association of State Boating Law Administrators
Hubbell Incorporated	Intelligent Transportation Society of America	International Staple Nail & Tool Association	Johnson & Johnson	LED Roadway Lighting Ltd.	Mapei Corporation	MHI Material Handling Industry	National Board of Boiler & Pressure Vessel Inspectors
Human Factors & Ergonomic Society	InterDigital, Inc.	International WELL Building Institute	Johnson Controls - Automotive Experience Seating Business Unit	Legrand - Electrical Wiring Systems	Market Strategies International	Miami-Dade Police Department Forensic Services Bureau	National Board of Surgical Technology and Surgical Assisting
Hyderabad Eye Institute, Operating Trust of L V Prasad Eye Institute (LVPEI)	International Association for Continuing Education and Training	International Window Cleaning Association	Johnson Matthey Inc.	Leonardo Academy	Mars Inc.	Micron Technology Inc	National Center for Competency Testing
Hydraulic Institute	International Association for Six Sigma Certification LLC	Interpower Corporation	Joint Committee on Standards for Educational Evaluation	Level 5 Safety	The Masonry Society	Microsemi Analog Mixed Signal BU	National Commission for the Certification of Crane Operators
Hyster-Yale Group	International Association of Movers	Interstate Renewable Energy Council, Inc.	JORAKAY Corporation Co., Ltd.	LGI Forensic Engineering, P.C.	Massachusetts Institute of Technology Lincoln Laboratory	Microsoft	National Contract Management Association
IBM Corp	International Association of Plumbers & Mechanical Officials	IntraLinks	K&S Associates, Inc.	Liberty Global Services B.V.	Massachusetts State Police Crime Laboratory	Millennium Challenge Corporation	National Council of State Boards of Nursing
ICC Evaluation Service, LLC	International Automotive Components Group North America, Inc. IAC Group		Kaiser Permanente	Liberty Mutual Group	Master Craft Industrial Equipment	Miller Electric Manufacturing Co.	National Council Prescription Drug Program
ICCBBA			Kaleo Pharma	Licensing Executives Society USA & Canada	Matheson Tri-Gas	Milliken & Company	National Electrical Contractors Association
ICL Performance Products LP			Kellen Company	Liebherr Mining Equipment Newport News Co.	Mattel	Minnesota Housing	National Elevator Industry Inc
ICW Group Insurance Companies			Keller and Heckman LLP	Life Cycle Engineering, Inc	Maximus Inc.	Minnesota State Colleges and Universities	National Emergency Number Association
IDEXX Laboratories			Keurig Green Mountain Inc.	Lifecore Biomedical	Maxitrol Co	Mitsubishi Chemical Carbon Fiber and Composites, Inc.	
IDTech			KeyBank National Association	Lifesize	Mayo Clinic	Mitsubishi Polyester Film Inc.	
IEDAC USA LLC			Keysight Technologies, Inc.	LipoScience, Inc.	Mazak Corporation	Modern Technology Solutions, Inc.	
IEEE			KIA Motors Manufacturing Georgia	Littelfuse Inc.	McCormick & Company	Molex	
IHS Global Inc.			Kimberly Clark	Lockheed Martin Corp			
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S-Z

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