2018-2019 ANNUAL REPORT
EXPANDING TO NEW HORIZONS
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One of my most important roles as ANSI president and CEO is making the case to business leaders and policy makers around the world about the critical importance of standardization — that is to say, standards and conformity assessment. Standards are a building block for innovation, defining the requirements that enable myriad interconnected technologies and systems to work together safely and efficiently. And when it comes to responsive standards development that meets the needs of rapidly evolving sectors, ANSI strongly believes that the flexible U.S. model — with multiple paths to globally relevant standards development — is the most effective. It maximizes opportunities to drive innovation, responding to priorities and new technologies as they arise, and allowing stakeholders to find the solutions that best fit their needs, regardless of who developed them.

Examples of this type of flexible and responsive coordination can be seen in ANSI’s standardization collaboratives. These are cross-sector coordinating bodies administered by ANSI, often in partnership with a government agency, industry group, or both, to accelerate the development of standards and conformance activities that address a national priority or facilitate the growth of an emerging industry. ANSI-led collaboratives have been addressing areas such as nanotechnology, energy efficiency, additive manufacturing, and unmanned aircraft systems (read about our most recent work later in this report). And we’re always looking ahead to the next innovative area where a clear path forward for standardization work will make a broad impact.

A critical component of standardization is conformity assessment, which helps assure proper implementation of a standard. Conformity assessment is the flip side of the coin, bringing full currency to the value of standardization. So it’s a key priority for ANSI to support and strengthen the conformity assessment activities that go hand-in-hand with effective and responsive standards. With the full acquisition in late 2018 of the ANSI National Accreditation Board (ANAB) as a wholly-owned subsidiary of ANSI, we are now in an even greater position to do that.

Integration work between ANSI’s previously held accreditation services programs and the newly acquired ANAB programs under a unified ANAB brand — now the largest accreditation body in North America — is well underway, and we expect the increased efficiencies and growth to continue for the benefit of our clients and constituents. The ANAB accreditation portfolio spans programs for management systems certification bodies, calibration and testing labs, product and systems certification bodies, personnel credentialing organizations, forensic test and calibration service providers, inspection bodies, police crime units, greenhouse gas validation and verification bodies, reference material producers, and proficiency test providers. As industries evolve and new areas of activity continually emerge, we expect to respond with the relevant conformity assessment solutions that meet those needs.

To support this growth across both ANSI and ANAB, we are investing in our IT infrastructure and systems to assess and deploy the best available technology to drive innovation forward. Throughout this transformative process, we’ll be working in close collaboration with our governance, leadership, and staff, and looking to our members and constituents for valuable input and insights. We expect to evolve technologically in tandem with our organizational growth, and to serve our customers and stakeholders with even more impactful standards- and conformity assessment-based activities and solutions.

I’d like to thank our dedicated chairman, Russ Chaney, and the entire exceptional team of Board officers and Board members for leading us through this era of transformation and growth. And a tremendous thank you to all of you — our members, volunteers, and contributors — who dedicate energy, time, and expertise to help ensure ANSI remains a strong and effective steward for the U.S. voluntary standardization system.

Sincerely,

Joe Bhatia
A LETTER FROM THE CHAIR OF THE BOARD

As I begin my third year as Board chairman, I’m very proud to report on an activity we’ve accomplished this year that will strengthen ANSI’s ability to respond to members’ needs while retaining neutrality, fairness, and strong strategic oversight: a comprehensive review and approval of key updates to the ANSI governance structure and By-Laws.

Much has changed in the standards and conformity assessment world since the last substantial review of ANSI’s By-Laws in 2002. The New York Not-for-Profit Law, which controls ANSI’s governance and operations, underwent revision. In 2018, ANSI completed an acquisition resulting in full ownership of the ANSI National Accreditation Board (ANAB). Additionally, a number of ANSI members independently encouraged a review of the By-Laws.

For these and other reasons, a governance advisory task group was formed to determine if there were opportunities to update the By-Laws to more effectively serve the needs of ANSI’s members and constituents across the standardization community. Following a multi-stage assessment process that included careful consideration of input from ANSI’s members, the revised By-Laws were approved by the ANSI Board of Directors in June 2019, and go into effect on January 1, 2020.

The changes are designed to reduce or eliminate ambiguity and redundancy, better align the document with current practices, simplify the governance structure, and establish a more robust and effective code of conduct. Specifically, the more significant revisions are intended to:

- simplify and flatten ANSI’s organizational structure, with all four Committees of ANSI reporting directly to the ANSI Executive Committee;
- clarify that Policy Committees, now called Policy Advisory Groups (PAGs), are advisory in nature and that their members are not fiduciaries, but help develop ANSI policy positions on international, national, and intellectual-property-related issues; and
- establish a comprehensive Code of Conduct, to replace the former Code of Ethics, that provides broad guidance for ANSI volunteers.

We believe these modifications will continue to protect the integrity of ANSI’s decision-making and further enhance our ability to serve the needs of the U.S. standards and conformity assessment communities.

I’m very pleased to have played a role in bringing this to fruition. Sincere thanks are due to the group of volunteer leaders and contributors from across the ANSI community whose insights and active engagement enabled this key progress.

From my fellow Board officers and directors and the governance task group leading the effort, to the members and individual commenters sharing their perspectives and insight, to the ANSI staff providing critical support, it is this type of broad collaboration and cooperation that drives our success — in this important governance activity and in everything ANSI does to strengthen and protect the voluntary standardization community.

Thank you all for your continued support.

Sincerely,

GP Russ Chaney
ABOUT 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 assure their effective use help to increase efficiency, open markets, engender consumer confidence, 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. Through its wholly owned subsidiary, the ANSI National Accreditation Board (ANAB), 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.

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 ANSI-accredited standards developers to implement procedures that promote 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 and U.S. Technical Advisory Groups to ISO. Additionally, the ANSI National Accreditation Board, ANSI’s wholly-owned subsidiary, provides accreditation services related to management systems certification bodies, calibration and testing labs, product and systems certification bodies, personnel credentialing organizations, forensic test and calibration service providers, inspection bodies, police crime units, greenhouse gas validation and verification bodies, reference material producers, and proficiency test providers.

Provide a means for assessing the need for new standardization activities and promote the fulfillment of identified needs through voluntary consensus standards development and conformity assessment solutions.

Interface with government on standards and conformity assessment issues, including those related to technology, health, safety, and the environment; and global market access and technical barriers to trade.

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Private-sector-led standardization solutions respond to national needs, fuel growth, and support public health and safety. Whether through new collaboratives, timely cross-sector events, or other activities, ANSI works to leverage the collective power of the voluntary standardization community to achieve these goals.

**UNMANNED AIRCRAFT SYSTEMS**

As autonomous vehicles such as drones and driverless cars increasingly enter the U.S. transportation system, collaborative standards and conformity assessment activities are critical to driving safety, performance, innovation, and business competitiveness. In December 2018, ANSI’s Unmanned Aircraft Systems Standardization Collaborative (UASSC) published the Standardization Roadmap for Unmanned Aircraft Systems (Version 1.0), developed collaboratively by 175 public- and private-sector organizations.

The roadmap identified the standardization gaps that need to be addressed to facilitate the safe integration of unmanned aircraft systems into the national airspace system. Following a very positive reception, in September 2019 the UASSC kicked off work on an update to the roadmap with support from the Federal Aviation Administration, the U.S. Department of Homeland Security’s Science and Technology Directorate, ASTM International, and others. Expected to be published in June 2020, Version 2.0 will include a progress report and further recommendations for the UAS standardization landscape.

**ADDITIVE MANUFACTURING**

To accelerate the development of standards and conformance solutions for 3-D-printing, the America Makes and ANSI Additive Manufacturing Standardization Collaborative (AMSC) partnered with more than 170 public- and private-sector partners to develop the Standardization Roadmap for Additive Manufacturing and a follow-up Version 2.0 in 2018.

The roadmaps identify existing standards, assess gaps, and make recommendations for priority areas where additional standardization is needed to advance the technology. In 2019, ANSI undertook efforts to widely promote the AMSC roadmap at premier industry events and to create an online tool to measure progress to address the roadmap gaps.
ON THE HORIZON — IDENTIFYING RESPONSIVE STANDARDIZATION SOLUTIONS AHEAD

It is our continual priority to respond to the needs of our constituents and the nation, and to facilitate coordination in emerging areas. Through our Services Sector Initiative and other outreach, ANSI continues to assess the need for partnerships and new or enhanced standardization activities in industries such as artificial intelligence, the Internet of things (IoT), automation systems, data privacy, and more.

ANSI’s World Standards Week 2018 focused on concrete applications for two of the most transformative technologies propelling advancements today: blockchain and artificial intelligence.

7 MILLION DRONES ARE EXPECTED TO BE IN THE U.S. BY 2020.
Source: Federal Aviation Administration

THE NUMBER OF INTERNET-ENABLED DEVICES—AS IN THE INTERNET OF THINGS—IS EXPECTED TO GROW FIVE-FOLD, TO 25 BILLION WORLDWIDE BY 2025.
Source: GSMA, The Mobile Economy 2018

SINCE 1990, EMPLOYMENT OPPORTUNITIES IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH HAVE GROWN 79%.
As coordinator of the U.S. voluntary consensus standardization system, ANSI fosters partnerships and initiatives to support public policy and promote the health and safety of U.S. citizens. We continually strive to create new opportunities for cooperation, collaboration, and communication between the private-sector standards community and government agencies to achieve these goals.

**REAFFIRMING THE STRENGTH OF THE PUBLIC-PRIVATE PARTNERSHIP**

In April 2019, ANSI’s president and CEO and the NIST director and under secretary of commerce for standards and technology signed a new Memorandum of Understanding reconfirming the need for a coordinated national approach to support the development of the best possible standards, as reflected in the United States Standards Strategy.

The memorandum:

- outlines both ANSI’s and NIST’s important responsibilities in standardization,
- recognizes the value of this key public-private partnership, and
- confirms ANSI’s coordinating role in the U.S. standardization system.

**ADVANCING PUBLIC HEALTH AND SAFETY**

**DIETARY SUPPLEMENTS**

In May 2019, cross-sector stakeholders came together for the second of two meetings coordinated by ANSI to advance safety, quality, and trust in dietary supplements through standardization as an adjunct to the regulatory framework. The discussions culminated in agreement on guidance principles of cooperation to move the industry forward, focusing on how standardization can:

- help build consumer confidence in dietary supplements,
- support trust in the supply chain, and
- ensure the safety, quality, and integrity of products and ingredients.
As one example of the public-private partnership in action, in July 2019 ANSI and NIST co-hosted the Capitol Hill event, “Codes and Standards—Protecting America’s Energy Infrastructure and the Built Environment.” Numerous code and standards organizations engaged with congressional staff, highlighting the role of codes and standards in protecting the nation’s expansive infrastructure and emphasizing the importance of government participation and support.

CANNABIS AND CANNABIS-DERIVED PRODUCTS

The cannabis market is complex and growing, prompting the need for effective voluntary standards and conformity assessment activities to support health, safety, environmental protection, and supply chain quality.

In support of our mission to enhance public health and safety, ANSI and its subsidiary, the ANSI National Accreditation Board (ANAB), announced an intent to strengthen, reinforce, and expand accreditation activities in areas relating to cannabis and cannabis-related products to help move the industry forward safely, while strictly complying with all applicable Federal and State laws. In keeping with legal guidelines adopted by the ANSI Executive Committee of the Board of Directors in July 2019:

- ANSI will accredit qualifying standards developing organizations (SDOs) and approve SDOs’ cannabis-related standards that qualify as American National Standards (ANS).
- ANAB, which has provided accreditation offerings for cannabis-related products since 2014, will build upon its significant technical experience, accrediting qualifying certification bodies, testing laboratories, proficiency test providers, and the like.
ADVOCATING FOR PRIVATE-SECTOR STANDARDS AND CONFORMITY ASSESSMENT SOLUTIONS

ARTIFICIAL INTELLIGENCE

With input from the ANSI community, the Institute submitted a formal response to NIST highlighting current activities, plans, challenges, and opportunities related to artificial intelligence (AI) standardization. The effort was undertaken in response to NIST’s request for information on priority areas for federal involvement in AI standards-related activities, which stemmed from an Executive Order on maintaining U.S. leadership in AI.


To coordinate public and private sector interests in creating a common standards framework, ANSI offered to partner with NIST on an AI standards collaborative, leveraging each organization’s convening capabilities. ANSI stands ready to offer assistance in engaging U.S.-based standards developers, including ANSI-accredited developers and those groups or individuals working on behalf of the United States through ISO and IEC technical advisory groups (TAGs), to advance U.S. standardization and conformance goals in the area of AI.

ADDITIONALLY...

Thanks to the collective input from members and constituents, ANSI also provided coordinated responses to:

- The U.S. Food and Drug Administration (FDA) Center for Drug Evaluation and Research (CDER), supporting a proposed program for informal recognition of voluntary consensus standards related to pharmaceutical quality.
- The U.S. Environmental Protection Agency (EPA), supporting a proposed commercial paint and coating removal training and certification program and recommending that the EPA program include specific requirements for training and certification bodies.

By 2021, spending on AI technologies is projected to grow to $52.2 billion, providing strong economic growth opportunities.

Source: IDC

ANSI MEMBERSHIP

1275 TOTAL MEMBERS

790 COMPANY
350 ORGANIZATION
71 GOVERNMENT
41 INTERNATIONAL
23 EDUCATIONAL
Strong and effective U.S. leadership in international technical activities is an ongoing priority for ANSI. Both at the policy and technical levels, it is important that the U.S. demonstrate its continued commitment to the development of globally relevant standards that are responsive to marketplace needs.

Over the course of 2019, a number of new work proposals were advanced within ISO covering a broad array of topics, including the sharing economy, circular economy, and sustainable finance. To encourage active U.S. engagement in these vital activities, ANSI embarked upon a focused outreach effort to affected U.S. stakeholders to gather comments on the proposals and identify interested parties to populate U.S. Technical Advisory Groups (TAGs) and serve as TAG administrators. ANSI also expanded education and training offerings for U.S. TAG leaders in ISO and IEC so they can be even more effective contributors in international standardization.
Through the work of ANSI and its members, the U.S. currently participates in:

MORE THAN 78% OF ISO TECHNICAL COMMITTEES (TC) AND SUBCOMMITTEES (SC), AND ADMINISTERS 14% OF SECRETARIATS.

MORE THAN 92% OF IEC TCS AND SCS, AND ADMINISTERS 13% OF TC AND SC SECRETARIATS, THROUGH THE USNC.

ISO LEADERSHIP

580 P-MEMBERSHIPS

232 TECHNICAL ADVISORY GROUPS

32 U.S.-ADMINISTERED TC SECRETARIATS

72 U.S.-ADMINISTERED SC SECRETARIATS

103 U.S.-HELD CHAIRS

IEC LEADERSHIP

171 P-MEMBERSHIPS

171 TAG ADMINS

26 IEC SECRETARIATS

28 U.S.-HELD CHAIRS

One example of expansive U.S. leadership is ISO/IEC Joint Technical Committee (JTC) 1 on Information Technology. With the U.S. as chair and ANSI as secretariat, ISO/IEC JTC 1 has direct responsibility for the development of more than 3,000 published ISO/IEC standards since its formation over three decades ago.

JTC 1 continues to increase its impact on global industry in transformative areas such as artificial intelligence, Big Data, and the Internet of Things (IoT).

In IEC, the U.S. National Committee (USNC), a committee of ANSI, was approved by the IEC Standardization Management Board to take on the IEC Secretariat role for the recently established IEC Systems Committee (SyC) on Smart Manufacturing, marking the first time a national committee has been approved for an IEC SyC leadership role.

This systems committee is working to provide coordination and guidance to harmonize and advance smart manufacturing activities across IEC, other standards developing organizations, and consortia.
ANSI’s work accrediting and administering U.S. TAGs to ISO committees, and approving USNC TAGs in IEC, is fundamental to ensuring U.S. expertise and interests have a strong voice in international standardization. This year the ANSI-administered U.S. TAG to TC 229, Nanotechnologies, approved for publication the first international standard from Joint Working Group (JWG) 2, Measurement and Characterization, entitled Nanotechnologies - Measurements of particle size and shape distributions by transmission electron microscopy. This document is viewed as critically important for characterization of nanoparticles for commercial and regulatory purposes by international organizations including the Organization for Economic Cooperative Development (OECD) and the European Committee on Standardization (CEN).

SUPPORTING REGIONAL AND BILATERAL TRADE AND DEVELOPMENT AROUND THE GLOBE

ANSI is recognized by both public- and private-sector entities as a strong and effective partner in coordinating standards-based activities that support regional and bilateral trade and development all over the world. Our continual priority is to enhance the reach and scope of international development programs, foster new partnerships, and increase engagement opportunities for industry and government.

Through ANSI’s public-private partnership with the U.S. Trade Development Agency (USTDA):

The U.S.-Africa Clean Energy Standards Program (CESP) provided opportunities for industry and government representatives from the U.S. and sub-Saharan Africa to cooperate on issues relating to standards, conformity assessment, and technical regulations for clean energy technologies. CESP is currently in its final program year, and has carried out 8 workshops to date in partnership with Power Africa.

The U.S.-Africa Information and Communications Technology Standards Program (ICTSP) is a new program launched in August 2019 to coordinate technical workshops for government and industry in sub-Saharan Africa to encourage decision makers to develop and implement standards, testing protocols, and regulatory procedures in a range of ICT subject areas.

The U.S.–India Standards and Conformance Cooperation Program (SCCP) Phase II convened workshops in India on topics such as green building innovations, data center efficiency, and smart and sustainable cities, which saw robust participation and sponsorship from industry groups and government agencies.

The U.S.-China Standards and Conformance Cooperation Program carried out workshops addressing medical technology, cold chain supply, and carbon capture, utilization, and storage, with participation from multiple government agencies, industry groups, and 25 private-sector companies.
BUILDING RELATIONSHIPS WITH NEW AND EMERGING TRADING PARTNERS

In addition to its many long-standing relationships with standards bodies and governmental entities around the globe, ANSI’s regional and bilateral engagement includes strengthening relationships with new and emerging trading partners.

In 2019 ANSI and seven member organizations led the first-ever standards trade mission to Saudi Arabia and the United Arab Emirates, certified by the U.S. Department of Commerce International Trade Administration. The mission focused on building engagement and opportunities for increased cooperation with the Gulf Cooperation Council Standardization Organization (GSO), its members’ national standards bodies, and regional stakeholders. As a result of the trade mission, in September ANSI and the GSO signed an action plan for cooperation under a Memorandum of Understanding, and several of the participating organizations have deepened their relationships with GSO and its members.

Given the importance and complexity of U.S. trade with China, ANSI and the co-chairs of the U.S.-China Congressional Working Group on China held talks about the significance of standards and conformity assessment to the U.S.-China bilateral relationship. Here at home, a delegation led by the Secretary-General of the China Certification and Accreditation Association visited ANSI to discuss potential areas for collaboration on standards and accreditation. ANSI’s president and CEO continues to serve as one of seven foreign advisors to China’s Standardization Expert Committee.

ANSI carried out activities across six countries in 2019 involving strong participation from ANSI members, industry, and U.S. and African government agencies — all with the goal of supporting a more resilient and sustainable partnership between the U.S. and African countries.

More than 35% of the world’s population lacks access to adequate sanitation systems, resulting in wastewater crop irrigation that risks the health of nearly one billion people. Since 2017, ANSI has administered the Secretariat of ISO Project Committee (PC) 318, Community scale resource oriented sanitation treatment systems, in a twinning relationship with ASN (Senegal). PC 318 is hard at work on ISO 31800, expected in 2020, which will enhance efforts and drive opportunities to widely manufacture, market, and deploy the technology while improving health and safety for millions.

Following the 2018 publication of ISO 30500 — the first international standard for reinvented toilets that remove pathogens and do not require traditional sewer, water, or electrical infrastructure — ANSI is promoting national recognition and implementation of ISO 30500 in China, South Asia, and Africa, where it has the potential to help save millions of lives. ANSI is also working to make the standard widely available, and fostering opportunities for U.S. companies to get involved.
Among the Institute’s most important priorities is promoting the U.S. voluntary standardization system, protecting its integrity, and facilitating collaborative solutions to common challenges.

**PROTECTING COPYRIGHT OF STANDARDS**

The issue of copyright protection remains a top priority for the private-sector standards community, and ANSI is actively engaged in efforts to defend the copyright of standards on multiple fronts.

In addition to the work of the ANSI Copyright Task Group, the Institute has undertaken a number of initiatives this year, such as teaming up with members of the codes and standards community to hold a series of strategic talks with Capitol Hill staff.

Additionally, ANSI and a number of standards developing organizations jointly filed an amicus brief in the U.S. Supreme Court under *State of Georgia v. Public.Resource.Org*. The brief presents many compelling arguments for why standards that are incorporated by reference into the federal code should still retain their copyright status — an issue of great importance to the standards developing community.

ANSI continues to identify all opportunities to explain the role of standards developing organizations and the far-reaching benefits of their work to industry, the public, government, and U.S. competitiveness at large.

**ENHANCING ORGANIZATIONAL EFFECTIVENESS TO BETTER SERVE THE STANDARDIZATION COMMUNITY**

Driven by a Board task group representing various constituencies — and taking into consideration input from members, ANSI’s Board of Directors approved revisions to ANSI’s By-Laws (see “A Letter from the Chair of the Board” for details). The revised By-Laws, which will become fully effective in January 2020, are intended to, among other things:
- further enhance the Institute’s ability to serve the needs of the U.S. standards and conformity assessment communities, and
- simplify the Institute’s organizational structure and increase its effectiveness.

ANSI extends its thanks to its governance leadership and members who provided input.

**PROMOTING AWARENESS OF THE VALUE OF THE ANS DESIGNATION**

A key component of the private-sector-led standardization system is the American National Standards (ANS) process. ANSI’s many checks and balances — including impartial audits, accreditation requirements, and a multi-level appeals process — underpin the integrity of the ANS process and safeguard the value of the ANS designation. To promote greater awareness of the value of the ANS designation and support the efforts of ANSI-accredited standards developers, the Institute has developed new and enhanced educational offerings, including interactive classes and webinar-based training. More than 700 registrants are expected to attend one or more of these sessions during 2019.
EXPAND UNDERSTANDING OF ANSI’S ROLE IN THE MARKETPLACE, AND ENGAGE NEW AND EXISTING CONSTITUENTS

From industry and government, to consumers, academia, and the next generation of standards professionals, ANSI works to educate and empower constituents to harness the power of standards-based solutions.

COMMUNICATING THE STANDARDIZATION COMMUNITY’S IMPACT: YESTERDAY, TODAY, AND TOMORROW

In recognition of the ANSI Federation’s first century of success, and to broadly communicate the standardization community’s tremendous impact on American industries and economic growth, ANSI published Advancing U.S. Industry and Competitiveness for 100 Years and the Innovative Future Ahead in late 2018. The report illustrated standardization initiatives that drove innovation and quality of life over the last century and looked ahead to the next wave of transformative technologies to come.

ENGAGING THE NEXT GENERATION OF STANDARDS PROFESSIONALS

Among other efforts to raise the visibility of standards and conformity assessment with academia, students, and emerging professionals, ANSI and NIST are co-hosting an event in November 2019, Fostering Partnerships to Integrate Standards into College Curriculum in the U.S.

Participants from industry, the standards community, and academia will take a look at the standards-related work of several institutions of higher education in an effort to identify next steps towards better preparing students and young professionals for standards-related careers.

That same week, the USNC is also hosting a Young and Emerging Professionals Summit, welcoming new professionals interested in the development of standards in the digital age for discussions with standards experts on topics such as cybersecurity, the future of standards, and globalization.
INCREASING CONSUMER OUTREACH

Consumers are among the most important stakeholders of standards, yet they are often underrepresented in standards development activities. To foster greater participation, ANSI has prioritized outreach to this important group, recently adding a dedicated consumer outreach manager to staff who will work to increase visibility of consumer-related programs and opportunities. Recent outcomes include:

- collaborating with ANSI-accredited standards developers and U.S. technical advisory group (TAG) administrators to broaden consumer representation in relevant standards activities, and
- enhancing visibility and access to relevant programs through updated website and social media content.

GROWING AWARENESS OF THE BENEFITS OF ANSI MEMBERSHIP

As a membership organization, it is ANSI’s priority to continually enhance our services and provide a broad range of valuable activities and engagement vehicles. On the first Friday of every month, ANSI offers a complimentary webinar to help participants tap into the full advantages of membership to:

- network with counterparts across industry sectors,
- share insights on challenges, priorities, and technological advancements,
- gain access to new markets, and
- discover the latest industry trends to stay ahead of the competition.

WORKSHOPS AND TRAININGS

Throughout the year, ANSI and ANAB sponsor a number of workshops and trainings to grow awareness of standardization and conformity assessment. Wide-ranging audiences engaged in a variety of activities:

- 1628 Accreditation workshop attendees
- +700 American National Standard (ANS) training attendees
- 363 World Standards Week 2018 attendees
- 283 Assessor Development Training attendees
- 2241 International development workshop attendees
- 118 Dietary Supplement Standardization Coordination attendees
- 119 UASSC Plenary attendees
In 2019, Workcred, an affiliate of ANSI, marked its fifth year of successful efforts to strengthen workforce quality by improving the credentialing system.

**CONNECTING CERTIFICATIONS WITH FOUR-YEAR DEGREES**

Workcred joined forces with the Association of Public and Land-grant Universities (APLU) and the University Professional and Continuing Education Association (UPCEA), under a Lumina Foundation grant, to facilitate coordination between universities and certification bodies to bolster student success and career outcomes.

In a series of national convenings, Workcred, APLU, and UPCEA are bringing certification bodies and universities together to identify opportunities to:

- give academic credit for earning a certification,
- embed certifications within four-year degree programs, and
- align curriculum with the competencies in the certification exam content.

Workcred and its partners will summarize the key findings and themes from the convenings in a framework that can be used for future pilot programs to test strategies and practices.

**PREPARING THE NEXT GENERATION OF MANAGEMENT SYSTEMS AUDITORS**

In a major advancement for management systems auditors and the businesses that rely on them to ensure the continuous improvement of their companies, the U.S. Department of Labor officially recognized the first-ever national apprenticeship program for management systems auditors in March 2019. Created through a collaboration between Workcred and the Independent Association of Accredited Registrars (IAAR), the program will train and prepare the next generation of talent to audit organization-wide management systems in industries as diverse as aerospace, manufacturing, health care, food processing, and more.
EXAMINING CREDENTIALING ISSUES THROUGH RESEARCH

Building upon the findings of its 2018 manufacturing research report, Examining the Quality, Market Value, and Effectiveness of Manufacturing Credentials in the United States, which was funded by the U.S. Department of Commerce’s National Institute of Standards and Technology (NIST) Hollings Manufacturing Extension Partnership (MEP), Workcred is launching a new study to evaluate the return on investment of existing manufacturing credentials. Supported by a new NIST MEP award, the two-year study will provide a better understanding of how credentials can serve as an important resource in identifying skilled workers.

Workcred is currently conducting research sponsored by AARP to explore credentialing needs and opportunities for older (age 50+) workers. Specifically, the research explores which credentials are most useful for older workers interested in rejoining the labor force, with an emphasis on non-degree credentials; how these workers identify credentials that may be suitable for their professional goals; what barriers may exist; and how credentialing organizations can meet the needs of these individuals.

To expand its ability to achieve these and other research goals, in September 2019 Workcred welcomed a new director of research.

IMPROVING UNDERSTANDING OF THE VALUE OF NON-DEGREE CREDENTIALS THROUGH DATA SHARING

Under a new grant from Lumina Foundation, Workcred will identify and engage 25-30 credentialing bodies in discussions around the value of sharing their data, so that information about non-degree credentials can be better understood. Through the network, Workcred aims to encourage credentialing bodies to share data so that stakeholders can make informed choices about the return on investment of non-degree credentials:

- educational institutions can use this data to expand and improve education programs,
- employers can use the information to identify high-performing programs and quality sources of talent to improve hiring and training decisions, and
- students can use the data to help make informed decisions about what credentials to earn and where to obtain them.

WORKCRED VIDEO

A new video released this year illustrates some of the challenges that employers, credentialing organizations, and education and training providers face as new types of credentials enter the market, and how Workcred is focused on connecting and educating stakeholders to create a more integrated and effective credentialing system.
The ANSI National Accreditation Board (ANAB), fully acquired as a wholly owned subsidiary of ANSI in December 2018, is now the largest provider of accreditation services in the U.S. and among the largest worldwide, recognized by the International Laboratory Accreditation Cooperation (ILAC) and the International Accreditation Forum (IAF). With this tremendous growth comes additional opportunities and responsibility to bolster consumer confidence in the global supply chain.

**EXPANDING RECOGNITION AND ACTIVITIES**

In addition to becoming a signatory to the IAF Multilateral Recognition Arrangement for Persons (ISO/IEC 17024) in 2019, the ANSI National Accreditation Board expanded its international recognition status by adding ISO 15189 for medical testing laboratories under the ILAC Mutual Recognition Arrangement, and ISO 50001 for energy management systems under the InterAmerican Accreditation Cooperation Multilateral Recognition Arrangement.

Among other recent achievements, the ANSI National Accreditation Board:

- earned recognition from the U.S. Food and Drug Administration as an accreditation body under their rules for the Food Safety Modernization Act,
- issued its first accreditations in environmental technology verification,
- announced plans to develop a program to accredit third-party validation services for the Carbon Offsetting and Reduction Scheme for International Aviation, and
- will expand accreditation offerings for cannabis-related products, accrediting qualifying certification bodies, testing laboratories, proficiency test providers, and the like, in keeping with the legal guidelines adopted by the ANSI Executive Committee of the Board of Directors in July 2019.

**ACCREDITATION SERVICES HELP TO:**

- increase confidence, productivity, and global competitiveness for U.S. industry,
- facilitate global market opportunities, and
- increase efficiencies.
PROVIDING A USEFUL TOOL FOR GOVERNMENT

Federal, state, and local authorities rely on the ANSI National Accreditation Board to demonstrate value and assure competency in a number of areas. This recognition grew in 2019:

- Hawaii’s Department of Health joined New Mexico, California, Illinois, Arizona, West Virginia, and Texas, as well as numerous local jurisdictions, in recognizing food handler training certificate programs accredited under the certificate accreditation program.
- The certificate accreditation program received U.S. Department of Homeland Security recognition for all training courses offered by its Office for Bombing Prevention.
- New Mexico recognized certification bodies accredited by the ANSI National Accreditation Board for new fire safety testing and inspection requirements.

EDUCATING LEGISLATORS ABOUT THE VALUE OF VOLUNTARY CERTIFICATION

To monitor and identify those instances in which legislation will prohibit, limit, or otherwise negatively impact voluntary certification, the ANSI National Accreditation Board created a State Legislation Task Force, which will develop a white paper to educate legislators about the value of voluntary certification, how it differs from occupational licensure, and its positive impact on the workforce and the economy.

CREDENTIALING PROGRAMS

- 70 PERSONNEL CERTIFICATION PROGRAMS
- 50 CERTIFICATE PROGRAMS
- 5 CONFERENCE FOR FOOD PROTECTION

MANAGEMENT SYSTEMS & ENVIRONMENTAL BODIES

- 77 QUALITY MANAGEMENT SYSTEMS CERTIFICATION BODIES
- 55 ENVIRONMENTAL MANAGEMENT SYSTEMS CERTIFICATION BODIES
- 62 OTHER MANAGEMENT SYSTEMS ACCREDITATIONS
- 20 GREENHOUSE GAS VALIDATION AND VERIFICATION PROGRAMS
- 3 ECO-LABELING ELIGIBLE PROGRAMS

PRODUCT CERTIFICATION, INSPECTION, LABORATORIES, & SUPPORTING BODIES

- 2080 LABORATORIES AND INSPECTION (+ FORENSICS)
- 84 PRODUCT CERTIFICATION PROGRAMS
- 25 REFERENCE MATERIAL PRODUCERS
- 23 PROFICIENCY TESTING BODIES
### OPERATING REVENUE: $55.93 MILLION

- **7%** Member Services & Policy Development
- **56%** International Standards Facilitation
- **11%** Domestic Standards Facilitation
- **14%** Accreditation Services
- **12%** Fee-Based Programs

### OPERATING EXPENSES: $55.59 MILLION

- **8%** Member Services & Policy Development
- **38%** International Standards Facilitation
- **10%** Domestic Standards Facilitation
- **15%** Accreditation Services
- **12%** Fee-Based Services
- **2%** Membership & Administration
- **15%** Management & General

### CONSOLIDATED FINANCIAL POSITION AS OF DECEMBER 31, 2018 & 2017

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>$16,474,435</td>
<td>$23,598,864</td>
</tr>
<tr>
<td>Investments</td>
<td>11,198,525</td>
<td>10,199,244</td>
</tr>
<tr>
<td>Accounts receivable, net</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications and royalties</td>
<td>5,042,783</td>
<td>5,056,475</td>
</tr>
<tr>
<td>Program support, accreditation, dues, and other</td>
<td>4,173,929</td>
<td>1,771,721</td>
</tr>
<tr>
<td>Prepaid expenses and other assets</td>
<td>2,105,894</td>
<td>1,949,477</td>
</tr>
<tr>
<td>Investment in ANAB</td>
<td>-</td>
<td>2,095,889</td>
</tr>
<tr>
<td>Goodwill</td>
<td>9,124,148</td>
<td>-</td>
</tr>
<tr>
<td>Property and equipment, net</td>
<td>1,301,016</td>
<td>979,530</td>
</tr>
<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>$50,320,730</td>
<td>$45,610,900</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>$13,434,280</td>
<td>$12,166,647</td>
</tr>
<tr>
<td>Deferred dues and fee income</td>
<td>7,803,925</td>
<td>9,985,156</td>
</tr>
<tr>
<td>Pension liability</td>
<td>5,645,897</td>
<td>3,968,673</td>
</tr>
<tr>
<td>Deferred rent</td>
<td>877,006</td>
<td>958,833</td>
</tr>
<tr>
<td>Loan payable</td>
<td>2,226,522</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL LIABILITIES</strong></td>
<td>29,700,630</td>
<td>27,019,309</td>
</tr>
</tbody>
</table>

| Without donor restrictions | 20,473,884 | 18,416,234 |
| With donor restrictions | 146,216 | 175,357 |
| **TOTAL NET ASSETS** | 20,620,100 | 18,991,591 |
| **TOTAL LIABILITIES AND NET ASSETS** | $50,320,730 | $45,610,900 |

### CONSOLIDATED STATEMENT OF ACTIVITIES AS OF DECEMBER 31, 2018 & 2017

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUE AND SUPPORT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Member services and policy development</td>
<td>$4,096,162</td>
<td>$3,841,887</td>
</tr>
<tr>
<td>International standards facilitation</td>
<td>31,349,032</td>
<td>29,103,373</td>
</tr>
<tr>
<td>Domestic standards facilitation</td>
<td>6,224,286</td>
<td>6,000,266</td>
</tr>
<tr>
<td>Accreditation services</td>
<td>7,636,636</td>
<td>7,521,400</td>
</tr>
<tr>
<td>Fee-based programs</td>
<td>6,621,045</td>
<td>6,842,104</td>
</tr>
<tr>
<td><strong>TOTAL OPERATING REVENUE AND SUPPORT</strong></td>
<td>55,927,161</td>
<td>$33,909,030</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program-related</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Member services and policy development</td>
<td>4,564,404</td>
<td>3,557,253</td>
</tr>
<tr>
<td>International standards facilitation</td>
<td>21,032,226</td>
<td>17,768,294</td>
</tr>
<tr>
<td>Domestic standards facilitation</td>
<td>5,991,029</td>
<td>4,624,001</td>
</tr>
<tr>
<td>Accreditation services</td>
<td>8,582,282</td>
<td>5,733,587</td>
</tr>
<tr>
<td>Fee-based services</td>
<td>6,868,853</td>
<td>7,488,382</td>
</tr>
<tr>
<td><strong>TOTAL OPERATING EXPENSES</strong></td>
<td>55,585,377</td>
<td>48,168,785</td>
</tr>
</tbody>
</table>

| Change in net assets from operations | 341,784 | 5,140,245 |

| **NONOPERATING ACTIVITIES** | | |
| Investment return, net | (266,889) | 1,606,364 |
| Gain on acquisition of remaining equity of ANAB | 3,503,881 | - |
| Pension-related changes other than net periodic pension cost | (1,550,267) | (1,435,277) |
| **TOTAL NONOPERATING ACTIVITIES** | 1,686,725 | 171,087 |

| Change in net assets | 2,028,509 | 5,311,332 |

| **NET ASSETS, END OF YEAR** | $20,620,100 | $18,991,591 |

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Supporting services</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Membership and administration</td>
<td>908,000</td>
<td>937,811</td>
</tr>
<tr>
<td>Management and general</td>
<td>8,238,583</td>
<td>8,059,457</td>
</tr>
<tr>
<td><strong>TOTAL SUPPORTING SERVICES</strong></td>
<td>9,146,583</td>
<td>8,997,268</td>
</tr>
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| Change in net assets | 2,028,509 | 5,311,332 |

| **NET ASSETS, END OF YEAR** | $20,620,100 | $18,991,591 |
ANSI MEMBERS

AS OF AUGUST 31, 2019

Adtran, Inc.
Advanced Medical Technology Association
Advanticom, Inc.
AECOM
AEGIS.net, Inc.
Aerojet Rocketdyne, Inc.
Aerospace Industries Association
Aesyst, Inc.
Agilent Technologies
Agility Clinical AIM
Air Conditioning Contractors of America
Air Methods
Air Movement & Control Association
Airliquide International Airship
Air-Conditioning, Heating, and Refrigeration Institute
Alabama Department of Forensic Sciences
Alabama Technology Network
Alico
Alert Logic, Inc.
A-LIGN Compliance and Security, Inc.
Allegheny Technologies, Inc.
Allegro MicroSystems, Inc.
Alliance Data Systems
 Alliance for Telecommunications Industry Solutions
Allied Tube & Conduit/Electrical Division
Alpha Modalities, LLC
Altera Corp.
Alticor
The Aluminum Association, Inc.
Alyeska Pipeline Service Co.
AMADIS, Inc.
Amazon
AMC Institute
American Academy of Forensic Sciences
American Architectural Manufacturers Association
American Association of Radon Scientists and Technologists, Inc.
American Association of Textile Chemists & Colorists
American Bankers Association
American Bearing Manufacturers Association
American Board of Multiple Specialties in Podiatry
American Boat & Yacht Council
American Brush Manufacturers Association
American Chemistry Council
American Composites Manufacturers Association
American Concrete Institute
American Council of Independent Laboratories
American Dental Association
American Express
American Family Life Company, Inc.
American Federation of Steel Workers
American Financial Association
American Institute of Steel Construction
American International Group, Inc.
American Iron & Steel Institute
American Ladder Institute
American Nuclear Society
American Oil Chemists Society
American Optometric Association
American Orthotic & Prosthetic Association
American Petroleum Institute
American Renewable Energy Standards and Certification Association
American Road & Transportation Builders Association
American Society for Nondestructive Testing
American Society for Quality
American Society of Agricultural and Biological Engineers
American Society of Baking
American Society of Civil Engineers
American Society of Crime Laboratory Directors
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
American Society of Mechanical Engineers
American Society of Plumbing Engineers
American Society of Safety Professionals
American Type Culture Collection
American Water Works Association
American Welding Society
American Wind Energy Association
American Wood Council
American Wood Protection Association
AmericanHort
AmSpec, LLC
Analog Devices, Inc.
Analytics 4 Life, Inc.
Antonin Scalia Law School AOAC International
API - The Engineered Wood Association
APCO International - Association of Public Safety Communications Officials Int'l
API Weinschel, Inc.
APIC Program of Distinction
APPA - Leadership in Educational Facilities
Apple, Inc.
Apxon
Architectural Builders Supply
Architectural Woodwork Institute
Acromic, Inc.
Arctic Slope Technical Services
Argentum
ARGO AI, LLC
Armstrong World Industries, Inc.
Aris Group, Inc.
Arrow Fastener Co., LLC
Artegraft, Inc.
Artisan Partners, Limited Partnership
ARUP Laboratories
Ashland, Inc.
ASIS International
Associated Air Balance Council
Associated Laboratories, Inc.
Association for Challenge Course Technology
Association for Print Technologies
Association for Rubber Products Manufacturers
Association for the Advancement of Medical Instrumentation
Association of Commercial Diving Educators
Association of Energy Engineers, Inc.
Association of Equipment Manufacturers
Association of Home Appliance Manufacturers
The Association of International Product Marketing and Management
Association of Strategic Alliance Professionals
Association of Transportation Safety Information Professionals
ASTM International
Atkins Energy Americas
Atlas Copco Rental
Atlas Lighting Products, Inc.
Atom Power, Inc.
Audiovisual and Integrated Experience Association (AVIXA)
Aurora Innovation
Australian Pipeline Valve
Auto Glass Safety Council
Automotive Industry Action Group
Automotive Lift Institute
Austonieu, LLC
Avadae, Inc.
Avanos Medical, Inc.
Avaya, Inc.
Avon Protection Systems
Axcess
B11 Standards, Inc.
Babcock Canada
BAE Systems
Baker & McKenzie Global Service
The Baker Group
Ball Metal Beverage Container Corp.
Baltimore Police
Bank of America
Bank of Hawaii
Bank of the West
Banner Engineering
Barry Wehmiller Companies, Inc.
Battery Council International
Bausch & Lomb, Inc.
BB&T Corporation
BBV Aviation USA, Inc.
BC Industrial, Inc.
BD Diagnostics
Becton, Dickinson and Co.
Beacon Industries, Inc.
Beckman Coulter, Inc.
Behavioral Health Center of Excellence
Bellino Srl
Bemis Company, Inc.
Benedictine University
Bentley Systems, Inc.
Benz Research and Development
Berkeley Hathaway Energy Co.
Best Cabinet & Granite Supply, Inc.
BHP Billiton Petroleum (Deepwater), Inc.
BIC Corporation
BICSI, Inc.
BIFMA International
BioAffinity, Inc.
Bio-Rad Laboratories
Black Diamond Structures
BlackBerry Corp.
Blue Cross Blue Shield of Arizona
Blue Origin, LLC
Bloomington Assessment Services
Broadridge Financial Solutions
Broan-Nu-Tone, LLC
Broward Sheriff Office Crime Lab
Brown & Haley
Brown Stove Works
Browning
Bai Group America, Inc.
Builders Hardware Manufacturers Association
Building Owners & Managers Association International
Building Performance Institute
Bulk Handling Systems
Bunn Corp.
Byron
CACI International, Inc.
Cadence Design Systems, Inc.
California Independent System Operator Corporation
California Lottery
California State University, Office of the Chancellor
Camargo Pharmaceutical Service
Cambridge Technology
The Capital Group Companies
Capital Management Consulting & Development Center
Cardigam USA, LLC
Cargill
Cargill, Inc.
The Carpet & Rug Institute
Cascade Microtech
Cattail Soi Pipe Institute
Castle Worldwide
Caterpillar, Inc.
CCAD, LLC
CC-Link Partner Association - Americas
CEDIA
Cell Signaling Technology, Inc.
The Center for Responsible Enterprise and Trade
CenterPoint Energy
Centers for Disease Control & Prevention
Cerner Corp.
Certified Automotive Parts Association
Certified Wireless Network Professionals
CGFNS International
The Chamberlain Group, Inc.
Channel Products, Inc.
Channellock, Inc.
Charleston Area Medical Center
Chicago Mercantile Exchange, Inc.
Cigna Corporation
Cisco Systems, Inc.
Citigroup Technology, Inc.
City of Grand Rapids
Classic Industries- Ci Medical Technologies, Inc.
Clinical and Laboratory Standards Institute
Clydesdale Consulting
CM Services, Inc.
CNA Insurance
Cognition Corp.
College of American Pathologists
Colorado Bureau of Investigation
Columbus McKinney Corp.
Columbus Police Crime Laboratory
Comau, Inc.
Combe, Inc.
Commission on Accreditation of Ambulance Services
Commission on Accreditation of Medical Transport Systems
Commissioning Agents, Inc.
Commonwealth of Massachusetts
Compassion International
Composite Panel Association
Compressed Air & Gas Institute
Compressed Gas Association
Computer Science Corp.
Concept QA Labs
Concept Systems, Inc.
Concrete Reinforcing Steel Institute
Connector Manufacturing Co.
Consensys Systems, Inc.
Construction & Location
Construction Innovations
Conserv
Cotton, Inc.
Cooper Companies, Inc.
Covance, Inc.
CPLSO
CraneforChemPharma & Energy
CraneforInspection & Certification Bureau
Cross Bore Safety Association
Crown Equipment Corp.
CSA America, Inc.
CSC International
CSI Telecommunications, Inc.
CSSTCentre De Documentation
CRTC Global Corp.
Custom Protect Ear, Inc.
CVS Caremark Corporation
CW2 Financial Group
Cypress Semiconductor Corp.
D Robles Consulting
d.light design, Inc.
Daikin Applied
Dana Holding Corp.
Danaher Corp.
Data2 Corporation, A Division of FineLine Technologies
Davis Wright Tremaine, LLP
Dealer Tire
Decision Sciences International Corp.
Deere & Company
Dell, Inc.
Delphi Automotive Systems, LLC
Delta Dental of California
DeltaHawk Engines, Inc.
Deluxe Entertainment Services Group
DEN Technologies Corp.
Dental Trade Alliance
Department of Forensic Sciences (DFS)
Depository Trust and Clearing Corporation (DTCC)
Design Chain Associates, LLC
Detector Electronics Corp.
Deytec, Inc.
Diageo
Dialight Corp.
DICKEY-john Corp.
Digimarc Corp.
Dimensional Metrology Standards Consortium, Inc.
Dinsmore
DirectTrust.org
Discover Financial Services
Diversified Inspections/ITL
Dive by Design
DLA Piper, LLP (US)
Doble Engineering Co.
Document Center, Inc.
Dolby Laboratories, Inc.
Donaldson Company, Inc.
Door & Access Systems Manufacturers Association
Dorel Juvenile U.S.
The Dow Chemical Co.
Dow Corning Corp.
DQS, Inc.
DRI International, Inc.
Drive DeVilbiss Healthcare
Dun & Bradstreet
Duquesne Light Co.
Dynabrade, Inc.
DynCorp International
E. D. Bullard Co.
E.I. du Pont de Nemours & Co.
EaglePicher Technologies, LLC
Eastman Chemical Co.
Eastman Kodak Co.
Eaton Corp.
EBW Electronics
ECC Corp.
ECCMA
EClinicalWorks
Ecore International
Eden
Edison Electric Institute
Educational Testing Service
EIFS Industry Members Association
Eiko Global, LLC
El Paso Independent School District
Electronic Apparatus Service Association
Electro Industries
Electronic Components Industry Association
Electronic Security Association, Inc.
Electronica Test Laboratories
Electroswitch Corp.
Elite Electronic Engineering, Inc.
Ellucian
Embraco
Emergency Management Accreditation Program
Emerson Electric Co.
EMSL Analytical, Inc.
Encore Wire Corp.
Energetics Consortium
Energy Solutions, Inc.
Energy Systems Integration Group
EnSafe Institute for Health, Safety & Counselling
Entergy
Environmental Protection Agency
EOS/ESD Association, Inc.
Ergon, Inc.
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CHAIR
GP Russ Chaney
Chief Executive Officer
IAPMO

IMMEDIATE PAST CHAIR
Kevan P. Lawlor
President and CEO
NSF International

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Vice President, Global Standards
Underwriters Laboratories

VICE-CHAIR
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Standards Liaison
American Academy of Forensic Sciences

VICE-CHAIR
David Miller
Director, Standards Development
American Petroleum Institute

VICE-CHAIR
George Gulla
Senior Vice President, Finance and Membership

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President, ASTM International

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ELISE OWEN
Standards Executive, U.S. Environmental Protection Agency

R. DAVID PITTS
Consumer Representative

JACK POLEZAWSKI
Director, Global Ground Vehicle Standards, SAE International

CLAIRE RAMSPECK
Managing Director, Standards, ASME

DAN RILEY
Standards Manager, Caterpillar Incorporated

CLARK SIFCOX
General Counsel, NEMA

SHARON STANFORD
Director, Standards, American Dental Association

ALAIN TOUSSAINE
Division Vice President CSR & Product Integrity - Americas, Walgreen Company

ANDY UDEGROVE
Partner, Gesmer Updegrove, LLP

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President and CEO, CSA Group

TIMOTHY WIGGS
Manager, Enterprise Engineering Standards, Deere & Company

CYNTHIA WOODLEY
Chief Operations Officer and Psychometrician, Professional Testing, Inc.