

AGENDA

STANDARDS AND SUSTAINABILITY: SHAPING THE FUTURE

Wednesday, November 13, 2024

National Housing Center, Washington DC | Virtual via Zoom

Time	Discussion and Speakers				
8:00	Networking Breakfast				
9:15	Welcome				
9:25- 10:25	 Opening Keynotes Chandrakant Patel, P.E., Senior Fellow and Chief Engineer, HP Sara Lisa Ørstavik, SDG Impact Specialist, UN Development Programme Sustainable Finance Hu Interactive Q&A and discussion will follow each speaker. 				
10:25- 12:00	Standards and Regulations Across Borders In an increasingly interconnected world, understanding the complex web of sustainability standards and regulations across the U.S., EU, and globally is crucial for businesses to thrive. This panel will guide you through the latest developments in ecolabels, green products, and environmental product declarations, as well as the impact of the U.S. Inflation Reduction Act and the EU's Carbon Border Adjustment Mechanism (CBAM) and Corporate Sustainability Reporting Directive (CSRD) on U.S. industry. The panel will also explore the implications of the Ecodesign for Sustainable Products Regulation (ESPR) and Digital Product Passports, and delve into the significance of ISO's forthcoming net zero standard, ISO GHG standards, and the GHG Protocol.				
	 Moderator: Mary Saunders, Senior Vice President, Government Relations and Public Policy, ANSI U.S. Jenna Larkin, Environmental Protection Specialist, Environmentally Preferable Purchasing Program, U.S. Environmental Protection Agency (EPA) Joseph Shacat, Special Advisor for Implementation, EPA Abby Wulf, Head of the American Battery Materials Initiative, U.S. Department of Energy Europe 				
	 Marc Boissonet, ESG Director, TIC Council Francesca Poggiali, VP for Global Public Policy, GS1 				

Global

- Dan Krekelberg, Principal, Factor Climate Strategies
- Phil Ludvigsen, Senior Project Director, J.S. Held

Audience Q&A to follow.

12:00 **-** 1:15

Annual Business Meeting Luncheon

Luncheon: 12:00 pm - 12:45 pm ET (in person); Remarks: 12:45 pm - 1:15 pm ET (hybrid)

ANSI leadership will highlight recent accomplishments and offer a look ahead at future activities.

1:15-2:40

Navigating the Future: Sustainability and ESG in Focus

This expert panel will unpack the evolving world of sustainability and ESG (Environment, Social, and Governance). From the latest standards to current trends in reporting and disclosure frameworks, the panelists will provide valuable insights to help your organization navigate this complex landscape. Discover the role and value of standards in developing effective sustainability strategies, and learn about the journey to implement comprehensive sustainability frameworks and disclosure reporting. This panel will provide knowledge and guidance to help you make more informed decisions and drive meaningful change in your organization.

Moderator: Phil Ludvigsen, Senior Project Director, J.S. Held

- **Lisa L. Greenwood, Ph.D.**, Associate Professor, Rochester Institute of Technology; Chair, U.S. Technical Advisory Group to ISO TC 207, SC1, *Environmental Management Systems*
- Patricia McCarney, Ph.D., President and CEO, World Council on City Data;
 Co-Chair, ISO ESG Committee for IWA 48; Chair, ISO TC 268, WG2, Sustainable Cities
- Liza McAndrew Moberg, IFRS Foundation
- Heather Moore, P.E., Partner, ERM Certification and Verification Services
- Kai Robertson, Senior Corporate Sustainability Advisor; Lead Advisor, Food Loss and Waste Protocol

Audience Q&A to follow.

2:40-4:00

Closing the Loop: Pioneering Approaches to Circularity

Dive into the cutting-edge world of circularity: This panel will explore how government, industry, and standards developing organizations are revolutionizing resource use and waste reduction. Discover the latest in circularity standards, get a firsthand look at initiatives in circular product design, and learn the innovative ways sustainability is being integrated into electrification. This session promises fresh insights into creating a more circular, sustainable future.

Moderator: KC Morris, Life Cycle Engineering Group Leader, National Institute of Standards and Technology (NIST) Engineering Lab

- Buddhika Hapuwatte, Ph.D., ASTM Committee E60 on Sustainability
- Jason Metnick, Senior Vice President of Customer Affairs, Sustainable Forestry Initiative (SFI)
- Randi K. Myers, Director, Standards Program, UL Standards & Engagement

Audience Q&A to follow.

4:00

Adjournment

SPEAKERS AND BIOS

Opening Keynotes



Chandrakant D. Patel, P.E., is a senior fellow at HP Inc., where he leads HP's technology strategy and the company's global technical community. Patel has driven the development of servers and data centers from concept to market. Formerly leading HP Labs, he shaped advancements in storage, networking, print engines, and software platforms. Pioneering energy-efficient data center solutions, he founded the Smart Data Center program at HP.

A Fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the American Society of Mechanical Engineers (ASME), he has been granted 167 patents and has authored more than 150 papers. In 2005, Patel received the prestigious HP Joel Birnbaum award for end-to-end energy management in IT systems. In 2014, he was elected to the Silicon Valley Engineering Hall of Fame. In 2018, he was elected to membership in the National Academy of Engineering.



Sara Lisa Ørstavik is the Sustainable Development Goals (SDG) impact specialist for the United Nations Development Programme (UNDP)'s Private Finance for the SDGs. She has more than 10 years of systems change, strategy development, and program management experience from international humanitarian, development, and private sector organizations.

In her current role, Ørstavik works with a global team of experts on rolling out the SDG Impact Standards and SDG Investor Maps globally to catalyze more sustainable decision-making—with the aim of directing investments authentically towards the SDGs. She also leads the team's work on catalyzing private finance for sustainable food systems.

Prior to her assignment at UNDP, Ørstavik worked as food systems and gender specialist at the World Food Programme, supporting country offices in conducting Systems Analysis for Nutrition (previously Fill the Nutrient Gap) processes.

Standards and Regulations Across Borders



Mary Saunders (moderator) is senior vice president of government relations and public policy at ANSI, serving as the Institute's liaison to federal, state, and local government and working to develop and advance ANSI's positions and policies at all levels of government.

Saunders was previously the associate director for management resources for the National Institute of Standards and Technology (NIST), responsible for all institutional support and administrative offices and their functions. She was also the director of NIST's Standards Coordination Office, representing NIST in the standards and conformity assessment community. Saunders has served as Deputy Assistant Secretary for Manufacturing and Services in the International Trade Administration, coordinating Commerce Department strategies, policies, and programs to help U.S. industries compete globally.



Jenna Larkin is a member of EPA's Environmentally Preferable Purchasing (EPP) program. The EPP program helps the U.S. federal government meet their sustainable purchasing requirements and goals including net-zero emissions procurement by 2050.

Larkin manages a tool called the Recommendation of Specifications, Standards, and Ecolabels for Federal Purchasing, and is the lead for helping the federal government find and buy products that do not contain PFAS.



Joseph Shacat works in the U.S. Environmental Protection Agency's (EPA) Low Embodied Carbon Construction Materials Program, where he supports several workstreams, including environmental product declaration (EPD) technical assistance, data quality improvements, and implementation of EPA's Low Embodied Carbon Label Program.

Previously, Shacat led the EPD program for the asphalt paving industry for six years. He has deep experience in the areas of life cycle assessment, sustainability, and environmental regulatory compliance. Shacat earned an M.S. in oceanography and an MBA from the University of Hawaii at Manoa.



Abby Wulf is head of the American Battery Materials Initiative, the White House-led, Department of Energy-coordinated, interagency effort to mobilize the entire government in securing a reliable and sustainable supply of critical minerals used for power, electricity, and electric vehicles. The American Battery Materials Initiative will align and leverage federal resources for growing the end-to-end battery supply chain; work with stakeholders, allies, and partners to develop more sustainable, secure, resilient supply chains; and support projects that build the domestic supply chain.



Marc Boissonet, ESG director at the TIC Council, is a mechanical engineer. He began his illustrious career in the TIC industry with Bureau Veritas, where he worked for nearly 40 years, serving as chief sustainability officer for the last ten years. In his role at TIC Council, he works to bring TIC sector support to build the future sustainability landscape.

Boissonet was actively involved in the revision process of the EU's Corporate Sustainability Reporting Directive (CSRD) and the European Sustainability Reporting Standards (ESRS). He participates in different EU working groups with the Parliament to publish a guideline on CSRD and with the Commission to define a standard for sustainability limited assurance services.



Francesca Poggiali is vice president for global public policy at GS1; previously, she spent several years as chief public policy officer Europe. Her career includes a mixture of public and private sectors experience within Ferrero, the European Commission and Parliament, and several trade associations.

Passionate about international law and sustainability, she studied corporate social responsibility at the Harvard Business School, and international and European law in the UK and Italy, where she received the highest recognition, cum laude.

Among her most impactful work so far are the corporate social responsibility program for Ferrero International, the convergence of environmental protection and chemical industry impacts in the framework of the EU chemical reform, the fight against illicit trade, and digital product passports through open non-proprietary standards for GS1.



Dan Krekelberg is a sustainability consultant who supports companies, NGOs, and agencies in designing programs and strategies to assess and mitigate GHG emissions and climate-related risks. He additionally advises on climate policy, including the development of standards and guidance for credible and verifiable carbon accounting.

Krekelberg is member of the U.S. Technical Advisory Group (TAG) to ISO Technical Committee 207 on Environmental Management, and has served on international working groups for net-zero standards and guidance, corporate sustainability disclosures, carbon footprints, and third-party verification of emissions from direct and indirect sources. He previously served as a policy director for a North American GHG emissions registry, as a program manager providing industry training on compliance with environmental regulations, and as a technical specialist on the preparation of climate action and clean energy plans on behalf of federal, state, and local government agencies.



Phil Ludvigsen, Ph.D., is senior project director at J.S. Held. He specializes in litigation support, ESG, and sustainable financing, such as green bond development and verification. He has co-authored expert witness reports, rebuttals, and settlement memorandums for mediation, allocation, regulatory oversight, and litigation engagements, including superfund mega-sites, manufactured gas plant (MGP) cleanup programs, insurance claims, and international dispute resolution.

Ludvigsen provides subject matter expertise in support of mediation, allocation, regulatory oversight, and ongoing litigation. He has extensive involvement in opining on various technical aspects related to site remediation, historical waste generation, sustainable finance, ESG, and standard of care. He has consulted on climate-related financial and physical risk visualization, management, and municipal climate action planning.

Annual Business Meeting Presentation



Joe Bhatia has been president and CEO of ANSI since 2006. He previously served as executive vice president and COO of the international group at Underwriters Laboratories (UL).

Among his leadership positions in domestic and global forums, Bhatia serves as vice chair of the Industry Trade Advisory Committee on Standards and Technical Trade Barriers (ITAC 15), a joint program of the Department of Commerce and U.S. Trade Representative. He is a member of the ISO Council and its Standing Committee on Finance. And he served two terms as president of the Pan American Standards Commission (COPANT) and four years as vice president. Bhatia has a B.S. in electrical engineering and an M.S. in business management. He will retire as ANSI president and CEO at the end of 2024 after nearly two decades of service.



David Miller (chair of the ANSI Board of Directors) is the senior advisor, global industry services at the American Petroleum Institute (API). In this role, he provides guidance and perspective on overall standards policy, procedures, and initiatives in support of API's Climate Action Framework and international standardization program and is an advisor to API's Global Industry Services senior management staff.

A longtime member of the ANSI Board of Directors, Miller currently serves as Board chair and also chairs the ANSI Finance Committee. He has also served on several federally chartered advisory committees and has testified before the U.S. Congress, and federal and state regulators on standards and technology issues.

Miller is a registered professional engineer. He represents API on the University of Texas Petroleum Extension Service Board of Advisors and the Offshore Technology Conference Board of Directors. He has also been elected a Fellow by the American Society of Civil Engineers.

Navigating the Future: Sustainability and ESG in Focus



Phil Ludvigsen, Ph.D. (Moderator), is senior project director at J.S. Held. He specializes in litigation support, ESG, and sustainable financing, such as green bond development and verification. He has co-authored expert witness reports, rebuttals, and settlement memorandums for mediation, allocation, regulatory oversight, and litigation engagements, including superfund mega-sites, manufactured gas plant (MGP) cleanup programs, insurance claims, and international dispute resolution.

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Lisa L. Greenwood, Ph.D., is an associate professor in environmental sustainability, health, and safety at Rochester Institute of Technology (RIT). Her teaching and research interests include environmental, health, and safety (EHS) management systems integration and implementation, enhancing sustainability and standards literacy in higher education curriculum, corporate social responsibility, and related private governance mechanisms.

Previously, Greenwood worked as an environmental engineer, EHS audit program manager, and international standards specialist in the aerospace sector. Greenwood is chair of the U.S. Technical Advisory Group (TAG) to ISO TC 207's subcommittee on environmental management systems and participated on the U.S. TAG on social responsibility. She has served as a U.S. expert in ISO environmental management standards development since 2005, and has been a member of the ANSI Committee on Education since 2015.



Patricia McCarney, Ph. D., is president and CEO of the World Council on City Data (WCCD) and director of Standardized Urban Metrics (SUM). She is a professor of political science at the University of Toronto, Canada, where she also served as associate vice president, international research and development.

Previously, McCarney worked as a professional staffmember in several international agencies, including the World Bank in Washington, and the United Nations – HABITAT in Nairobi.

McCarney holds several positions in the international standards industry. She is co-chair of the Coordinating Committee on ESG within ISO. As well, as part of ISO Technical Committee (TC) 268, she has led the development of the ISO 37120 series. Having founded the WCCD and SUM in 2014, McCarney is building a globally standardized data platform for cities worldwide, where cities report data in conformity with the ISO 37120 Series for ISO certification.



Liza McAndrew Moberg is a member of the IFRS Foundation's Regulatory Affairs team, supporting regulatory engagement on sustainability reporting.

McAndrew Moberg previously held senior positions with regulatory authorities responsible for financial reporting and audit in the U.S. capital markets. As director of the Office of International Affairs of the Public Company Accounting Oversight Board (PCAOB), she led the PCAOB's coordination with authorities around the world on audit firm supervision and enforcement.

Previously, McAndrew Moberg was senior adviser to the director of the U.S. Securities and Exchange Commission's Office of International Affairs, extensively involved in financial reporting policy affecting non-U.S. companies listed in U.S. markets, including use of IFRS accounting standards. She joined the SEC as a professional accounting fellow in the Office of the Chief Accountant's International Affairs group. Prior to her regulatory roles, she spent over a decade in Pricewaterhouse Coopers LLP's assurance practice.



Heather Moore is a partner with ERM Certification and Verification Services (CVS), an ANAB-accredited verification body, where her responsibilities include covering corporate assurance engagements and growing the product assurance practice.

Moore has over 15 years of experience managing environmental and sustainability assurance projects for a broad range of industries including oil and gas, manufacturing, utilities/power, marine, food, and waste management. As an assessor, she has led hundreds of verifications for greenhouse gas emissions and other sustainability data, certified against ISO 14001, and performed social audits to review worker treatment/safety. She has helped clients track improvements in waste reduction, product claims (LCA/PCF and other environmental claims), and other commitments related to plastic, deforestation, and sustainable products. Moore holds a B.S. in environmental engineering from Purdue University and is pursuing an M.S. in sustainability management from Columbia University.



Kai Robertson is a recognized expert on sustainability in the food industry. As an independent advisor, she draws upon the deep insights and broad knowledge gained from working for 30 years with companies up and down the food, beverage, and agriculture supply chain.

Robertson is known for providing practical guidance on effective sustainability strategies, facilitating discussions across stakeholders, and delivering tailored insights on key issues. Over the course of her career, Robertson has worked with many of the world's largest food companies, including Walmart, Unilever, and McDonald's, as well as highly-respected organizations such as World Resources Institute and the World Wildlife Fund.

Early in her career, after receiving an MBA from Northwestern University, she worked for FMI for eight years, producing research and speaking regularly about trends that affect the food and consumer packaged goods sector.

Closing the Loop: Pioneering Approaches to Circularity



KC Morris (moderator) is a leader for Life Cycle Engineering for Circularity at the National Institute of Standards and Technology (NIST). Building on a 30+ year career contributing to research and standards for manufacturing systems integration, Morris currently focuses on standards needs for transitioning manufacturing to a circular economy. Her early work contributed foundational standards for sharing product designs and other data, followed by research and leadership in smart and sustainable manufacturing.

Morris serves on the executive committee of ASTM International's E60 Committee on Sustainability, and as vice chair of ASTM E60.13 on sustainable manufacturing. She is a member of the U.S. Technical Advisory Group for ISO 323 on circular economy, and a technical expert to ISO Technical Committee 184 on automation systems and integration. She also served as president for SME's North American Manufacturing Research Institute (NAMRI) and as an ASME Congressional Fellow during the 116th Congress.



Buddhika Hapuwatte, Ph.D. is a researcher working with the Information Modeling and Testing Group in the Systems Integration Division at NIST. His research focus includes modeling product life cycles, system optimization in the circular economy, and quantifying greenhouse gas avoidance through industrial material repurposing.

During his Ph.D., Hapuwatte conducted research on advancing the circular economy by optimizing the design and production planning of sustainable multi-generation products. His work involved developing sustainability metrics, introducing the dynamic sustainability evaluation of productions, and integrating market diffusion models to forecast a product's sustainability performance over time. Additionally, he has a keen interest in Lean system application to continuously improve production systems and complement sustainable manufacturing.

Over the years, Hapuwatte has published his work on the above-mentioned research areas in a number of high-impact journals and international conferences.



Jason Metnick is senior vice president, customer affairs at the Sustainable Forestry Initiative (SFI). There, he leads the standards pillar with a focus on elevating the SFI standards as a proof point for sustainable forestry and responsible purchasing. His work advances the standards pillar through engaging and communicating the value of SFI's standards to certified organizations, customers of certified organizations, and others interested in the value of sustainable forestry.

Metnick has worked at SFI since 2001, and holds a B.S. in forestry from Northern Arizona University. He is a member of the Society of American Foresters and sits on a number of committees related to forest certification, chain of custody, and ecolabeling.



Randi K. Myers is director of standards programs at UL standards & Engagement (ULSE). She is responsible for managing the program for the development of standards for the electrification industry, including aviation, batteries, distributed energy, emobility, energy storage, electric vehicles, generators, solar and wind energies, and performance materials. In this role, she leads a team of Technical Committee (TC) chairs and project managers who oversee committees, committee members and stakeholders, and standards development of new/modified requirements.

Myers also serves as secretary for IEC TC 61, *Safety of Household and Similar Electrical Appliances*, a role she assumed in 2016, and she previously served as secretary for the U.S. National Committee of the International Commission on Illumination (CIE/USNC). Myers was also a member of the Society of Standardization Professionals (SES) from 2010 to 2024.

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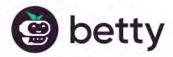








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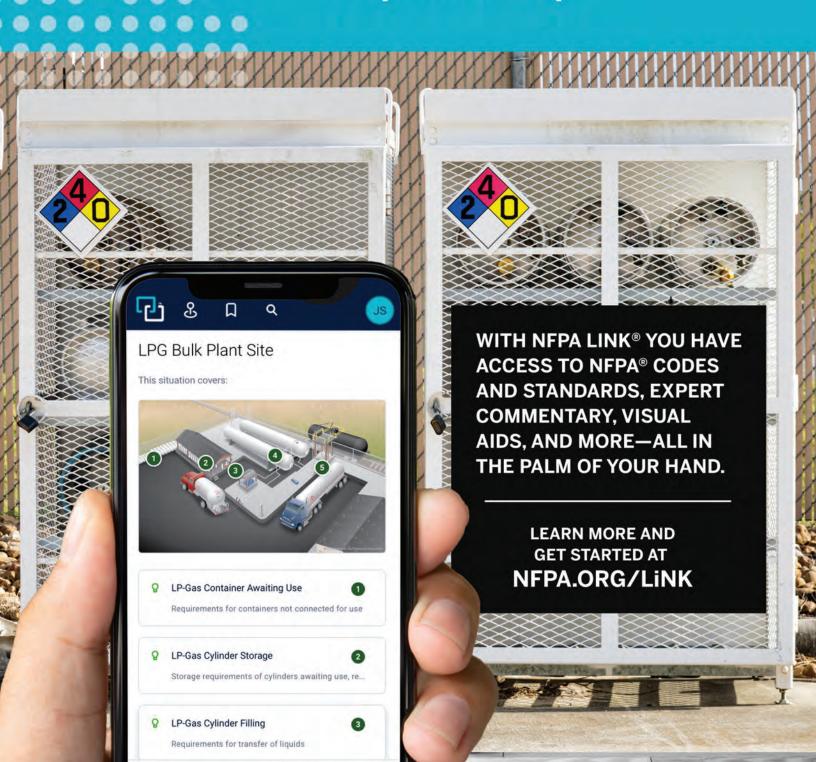


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Raising the Risk: How Safety Oversights of E-Mobility Riders Threaten More Lithium-Ion Battery Fires

Our Approach to Advocacy







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The insights & policy analysis team proves data-driven intelligence to understand behaviors, emerging trends, and relative policy issues regarding safety, security and sustainability. Primary activities of their work includes quantitative and qualitative thematic insights and analysis to inform and support ULSE strategic engagement pillars and tracking core behavioral and attitudinal trends in consumer and industry sentiment.



Partnerships

The partnerships team builds relationships with partners and policymakers to educate them on the importance of safety standards while also connecting with industry leaders and trade associations on collaboration opportunities.



Communications

The communications team establishes UL Standards & Engagement as a thought leader delivering practical solutions. Through deploying the power of compelling stories, from the voices of firefighters and flight attendants to parents and small business owners, the team's work highlights risks, the importance of standards, and promotes solutions.



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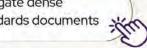
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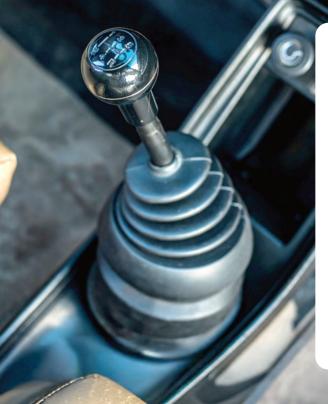


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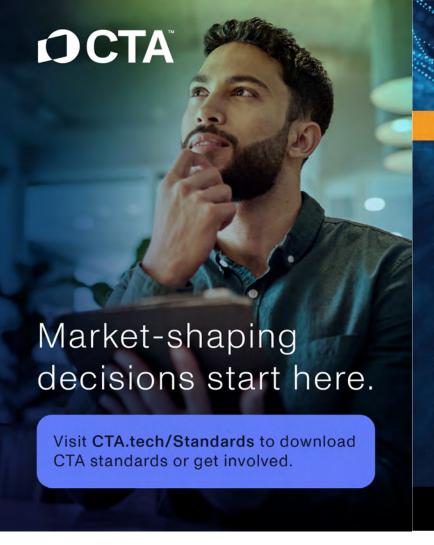
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