

2025 LOW CARBON CONCRETE SYMPOSIUM

ADDRESSING EMBODIED CARBON IN THE BUILT ENVIRONMENT

ROBERT CAVALIERO, MCE, DIRECTOR OF BUSINESS DEVELOPMENT, E5 INC.

Robert is the Director of Business Development for E5 Inc., based in Noblesville, IN. He holds a master's degree in civil engineering with an emphasis in concrete materials from the University of Colorado at Denver.

For nearly two decades, Robert has been focused on utilizing nanotechnologies to enhance the sustainability of concrete and construction. Robert will explain the science behind colloidal silica admixtures and discuss the benefits of this technology in terms of sustainability and concrete durability.



Presentation: The Science and Benefits of Colloidal Silica Admixtures

KEVIN ABEL, ASSISTANT DIRECTOR MANAGER MINE SAFETY AND HEALTH ADMINISTRATION



Kevin Abel is a dedicated manager with over 30 years of experience in the mining sector. He combines a strong production mindset with top-notch safety standards. With over 20 years of experience at the Mine Safety and Health Administration (MSHA), he has held nearly every position within the agency. Currently, Mr. Abel oversees mine safety and health inspections, as well as specialist activities in the Warrendale District of MSHA. His primary responsibility is to enhance the effectiveness of inspections with the goal of reducing injuries and illnesses in the nation's mines.

Mr. Abel has extensive expertise in production, safety, mine rescue, and risk management and mitigation.

Presentation: Aggregate and Producer Open Forum and Discussion

BRANDON HUNDLEY, VICE PRESIDENT OF STRATEGIC PARTNERSHIPS, HAULHUB

Brandon Hundley is a highly experienced executive with over 15 years of experience in revenue leadership. Responsible for leading the company's relationships with state and local agencies and helping them advance their e-construction capabilities.

Prior experience includes executive roles at Zillow Group and serving as the Head of Sales at EliseAI. With a demonstrated ability to generate revenue and build lasting partnerships, he is a specialist in driving growth and establishing sustainable business relationships.

Presentation: Ready-Mixed Producers and Supplier Round Table with WSDOT and HaulHub.



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RYAN ZAKERSKI, TRANSPORTATION TECHNICAL ENGINEER, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

Ryan Zakerski has been with the Washington State Department of Transportation (WSDOT) since October 2019 and currently holds the position of Headquarters Construction E-Construction Specialist.

He began his career in the Bellingham Project Office as a Transportation Engineer 2 in training. He later advanced to the role of Transportation Engineer 3, where he was responsible for overseeing both the design and construction aspects of design-bid-build projects. Ryan earned his bachelor's degree in mechanical engineering from California State University, Sacramento.

Presentation: Ready-Mixed Producers and Supplier Round Table with WSDOT and HaulHub.



LOGAN P. DAVIDSON, MBA, OWNER, GEOGRAPHIC SOLUTIONS

Logan P. Davidson, MBA, is the owner of Geographic Solutions LLC, where he provides consulting services for permitting, mine planning, market analysis, mapping, and environmental work in the aggregates industry. He has helped clients and employers secure projects more quickly, identify new sources, and expand their reserves. Logan has experience working with local and state agencies, and he knows how to guide projects through the whole process, from early planning to final permits.

With over a decade of experience working on a wide variety of projects for small and large businesses, he brings practical, real-world solutions to every project.

Presentation: Guided RCA and Permitting Workshop



IGNACIO CARIAGA, MBA, PE, COMMERCIAL SUSTAINABILITY DIRECTOR, HEIDELBERG MATERIALS

Ignacio Cariaga is a Civil Engineer with over 25 years of experience. As the Commercial Sustainability Director for the Pacific Northwest and British Columbia at Heidelberg Materials, he leads efforts to reduce embodied carbon emissions across the concrete value chain.

Ignacio co-founded the Carbon Leadership Forum in Alberta, Canada, and represents Heidelberg Materials in materialsCAN, focusing on effective carbon reduction strategies. He also serves on the board of the Washington Aggregate and Concrete Association (WACA).

Panel Facilitator, Measuring Carbon: Holistic Life-Cycle Assessments and EPD Considerations



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TIFFANY REED-VILLARREAL, DIRECTOR OF SUSTAINABILITY CODES AND STANDARDS, NATIONAL READY-MIXED CONCRETE ASSOCIATION

Tiffany Reed-Villarreal is the Director of Sustainability Codes and Standards at the National Ready-mixed Concrete Association (NRMCA). A licensed Professional Engineer in Texas and an Envision Sustainability Professional, she supports concrete producer members and affiliates in developing sustainability codes and standards.

Tiffany earned her Bachelor of Science in Civil Engineering from the University of Texas at Austin and has over 15 years of experience in structural engineering and consultancy. She is recognized as the Civil Engineering Advocate of the Year by the American Society of Civil Engineers (ASCE) and serves as the Region 6 Governor, as well as on various committees, including those focused on sustainability and government relations.



Panelist, Measuring Carbon: Holistic Life-Cycle Assessments and EPD Considerations

STEVEN READ, PE, MS, BS, CIVIL ENGINEER, SEATTLE PUBLIC UTILITIES, RETIRED

Steven Read worked at Pavement Consultants Inc., focusing on pavement systems, particularly for airports like McCarran International and Sangster International. He later became a supervising civil engineer at Seattle Public Utilities Materials Laboratory, overseeing quality assurance for construction materials.

In addition to his supervisory role, Mr. Read advocates for the use of recycled materials in construction and is an active member of professional organizations.

Steven earned his Bachelor of Science in Civil Engineering from the University of Washington and a Master of Science, becoming a licensed professional engineer.

Panelist, Measuring Carbon: Holistic Life-Cycle Assessments and EPD Considerations



JACK COVE, FOUNDER, GO-TO-MARKET @ PATHWAYS

Jack Cove serves as the Head of Go-to-Market at Pathways, a software solution designed to facilitate the creation of Environmental Product Declarations (EPDs) that support low-carbon innovation within the built environment. Throughout his professional career, Mr. Cove has been dedicated to advancing digital transformation across various sectors.

At Pathways, he aims to bridge the gap between data, automation, and sustainability in the built environment. The company collaborates closely with manufacturers to streamline the intricate processes associated with environmental reporting by automating data collection and modeling necessary for the development of product-level Environmental Product Declarations (EPDs).

Panelist, Measuring Carbon: Holistic Life-Cycle Assessments and EPD Considerations



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KELLY ALEXANDER, TECHNICAL SALES REPRESENTATIVE, EUCLID CHEMICAL COMPANY

Kelly Alexander is the Technical Sales Rep for Euclid Chemical. He is an accomplished executive in the concrete industry with over 38 years of experience. He provides technical assistance and support to ready-mix producers and concrete contractors.

Kelly is the current Vice President of the Washington Chapter of the American Concrete Institute. He is a member of ACI International and serves on the Oregon Concrete and Aggregate Producers Association's Technical, Promotion, and Excellence in Concrete Committees.

With a passion for success and a commitment to his work, Kelly continues to make a meaningful impact in the concrete sector.

Panelist, Measuring Carbon: Holistic Life-Cycle Assessments and EPD Considerations



PATRICK MATSCHE, SENIOR DIRECTOR, BUILDING INNOVATIONS, STRUCTURES AND SUSTAINABILITY, NRMCA

Patrick Matsche is the Senior Director of Building Innovations at NRMCA within the Structures and Sustainability Group. He specializes in building operations and real estate investing, aiming to provide technical expertise for incorporating safe and resilient concrete solutions into projects.

Patrick collaborates with architects, engineers, and contractors to provide durable, energy-efficient, and cost-effective concrete solutions. He focuses on educating developers and design professionals about the economic benefits of building with concrete, particularly in low- and mid-rise commercial and residential structures, promoting methods like insulating concrete forms and tilt-up construction.

Panel Facilitator, National and Local Resources



DON DAVIES, PE, SE FOUNDER – DAVIES-CROOKS ASSOCIATES

An industry champion for the promotion of urban density and low-carbon construction, Don has helped found the MKA Foundation, the Carbon Leadership Forum, and Building Transparency. He is a Senior Fellow of the Design Futures Council and has been inducted into the University of California, Berkeley Academy of Distinguished Alumni.

As the past President of Magnusson Klemencic Associates, a structural and civil engineering firm, his structurally designed projects are in 18 countries and more than 50 major metropolitan centers. More than 25 are Performance-Based Seismic Designed towers.

Presenter: *Building a Sustainable Future: Strategies for Low-Carbon Construction*

Panelist, National and Local Resources



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THOMAS J. VAN DAM, PH.D., P.E., F.ACI PRINCIPAL, WISS, JANNEY, ELSTNER ASSOCIATES, INC.

Thomas J. Van Dam, Ph.D., P.E., F.ACI, joined WJE in 2023, bringing over 35 years of experience in civil engineering. He specializes in concrete materials related to pavement and slab design, evaluation, sustainability, and reducing greenhouse gas emissions. Dr. Van Dam has published over 100 technical papers, articles, and reports, and is a frequently invited speaker on topics related to concrete materials and sustainability.

He earned his Bachelor of Science and Master of Science degrees in Civil Engineering from the University of Illinois at Urbana-Champaign, and he subsequently completed his Doctor of Philosophy in Civil Engineering at the same institution.



Panelist, Natural and Local Resources

ALEXANDER COLLINS, DIVISION READY-MIX SALES MANAGER, GLACIER NORTHWEST

Alex Collins manages a team of Ready-Mix Concrete Sales Professionals in the Seattle metropolitan area for CalPortland.

He connects high-quality people and organizations with exceptional products and services that can help their businesses thrive. He achieves this by coaching and guiding professional sales representatives to reach their full potential through a customer-first, solution-oriented approach to sales.



Panel Facilitator, National and Local Resources

DEBALINA GHOSH, PH.D., MSCE, B.TECH. MATERIALS ENGINEERING SPECIALIST, CRH AMERICAS

Debalina Ghosh is a Materials Engineering Specialist for the Northwest region of CRH Americas Materials. In this role, she supports facilities in advancing sustainability initiatives and innovating lower-carbon materials and services. Prior to joining CRH, Debalina was a Senior Design Engineer in Seattle, tackling construction and sustainability challenges.

Debalina earned her PhD from the University of Tennessee, Knoxville, where her research focused on novel concrete applications and alternative cement. She completed her undergraduate degree at Jalpaiguri Government Engineering College in India and later obtained her master's degree from Georgia Southern University.



Panelist, National and Local Resources

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DIANE WARNER, MBA, PE, EXECUTIVE DIRECTOR, NORTHWEST CEMENT COUNCIL

Diane Warner is the Executive Director of the NW Cement Council, where she advocates for the cement and concrete industry in the Pacific Northwest.

Ms. Warner collaborates with various advocacy groups to advance favorable transportation legislation and building codes, showcasing concrete as a sustainable and energy-efficient material.

A licensed Professional Engineer in Oregon and Washington, Diane is actively involved in several organizations. Diane holds an MBA in Sustainability & Entrepreneurship from the University of Portland and a Bachelor of Science in Civil & Environmental Engineering from the University of South Florida.



Panelist, Natural and Local Resources

CORY SHAW, BBM, AS, EXECUTIVE DIRECTOR, WASHINGTON AGGREGATES AND CONCRETE ASSOCIATION

Cory Shaw is the Executive Director of the Washington Aggregates and Concrete Association. Working with the Governmental Affairs Committee and a Lobbyist, Cory has effectively navigated legislative challenges and advocated for important issues. She previously served in the same role at the Montana Building Industry Association.

Cory is dedicated to community engagement and excels at fostering collaboration among stakeholders. She has successfully leveraged her expertise to create a positive impact in the concrete industry.

Cory holds a Bachelor's Degree in Business Management from the University of Phoenix and an Associate of Science from Central Oregon Community College.

Panel Facilitator, The Pathway to Decarbonization



BILL LARSON, MBA, CHAIRMAN PACIFIC NORTHWEST BUILDING RESILIENCE COALITION

Bill Larson has over 40 years of experience in the cement and concrete industries, serving as Vice President of Marketing for CalPortland Company and CEMEX. He holds an MBA with a focus on marketing and communications, as well as an Executive MBA in International Business Management, both earned from prestigious institutions such as INSEAD, Tecnológico de Monterrey, Stanford University, and Northwestern University.

Bill currently consults for the Northwest Cement Council and founded the Pacific Northwest Building Resilience Coalition in 2016, where he serves as Chairman. He also chaired the Northwest Cement Council, the California Nevada Cement Association, and various committees for the Portland Cement Association.

Panelist, The Pathway to Decarbonization



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Ignacio co-founded the Carbon Leadership Forum in Alberta, Canada, and represents Heidelberg Materials in materialsCAN, focusing on effective carbon reduction strategies. He also serves on the board of the Washington Aggregate and Concrete Association (WACA).



Panelist, The Pathway to Decarbonization

DAVINA DUERR, WASHINGTON STATE REPRESENTATIVE

Representative Davina Duerr has dedicated her life to community service as a longtime resident of Bothell. Prior to her election, Davina was Vice President of the Northshore Schools Foundation and co-founded the M.I.L.K. Money campaign. She also served for over a decade on the Bothell Landmark Preservation Board, including eight years as Chair.

Davina was a member of the Bothell City Council from 2016 to 2022 and served as deputy mayor for a term. Raised in upstate New York, she graduated from Syracuse University with a degree in architecture and a minor in environmental geography.

Currently, Davina chairs the Local Government Committee and serves on the Environment & Energy Committee and the Transportation Committee.

Panelist, The Pathway to Decarbonization



DAVID LANDREY, BS, DIRECTOR OF CHEMICALS AND POWDERS, MASCO

David Landrey is the Director of Chemicals and Powders at Masco, where he drives innovation and maintains product quality. He holds a Bachelor of Science in Economics with a Minor in Statistics from the University of Washington, combining analytical skills with a strategic approach to data-driven decision-making.

As a LEED Accredited Professional in Building Design and Construction, David is committed to sustainability in the construction industry. His expertise in quality control, account management, and project management makes him a key leader at Masco. David is dedicated to developing sustainable solutions and enhancing operational efficiencies.

Panelist, The Pathway to Decarbonization

