



The California Asphalt Pavement Association

FALL ASPHALT PAVEMENT CONFERENCE & EXPO

October 26-28, 2022

Hilton Sacramento Arden West; 2200 Harvard St., Sacramento, CA 95815-3306

PROGRAM PRESENTERS

Wednesday, October 26th

Balanced Mix Design Symposium



Randy West Ph.D., Director and Research Professor – National Center for Asphalt Technology (NCAT)

Dr. Randy West is the Director at the National Center for Asphalt Technology (NCAT) and a Research Professor at Auburn University. He has worked in the asphalt pavement industry for 32 years including serving as a bituminous research engineer with the Florida DOT in the early 90's, leading APAC's Materials Services group during the early days of Superpave implementation, and then on to NCAT 16 years ago.

At NCAT, Randy directs the center with 47 employees who are passionate about asphalt pavements. NCAT's clients include numerous state DOT's FHWA, NCHRP, NAPA and businesses in the asphalt paving industry. NCAT's mission is to provide innovative, relevant and implementable research, technology development and education that advances safe, durable and sustainable asphalt pavements.



Fan Yin Ph.D., Assistant Director, and Assistant Research Professor – NCAT

As the NCAT Assistant Director, Fan Yin leads the research programs and fosters client relationships while also leading NCAT's research efforts in balanced mix design and use of recycled plastics in asphalt as well as NCAT's testing service for the National Transportation Product Evaluation Program's warm mix asphalt evaluation.

Yin received his master's degree and doctorate at Texas A&M University and worked as a graduate research assistant and postdoctoral researcher at the Texas A&M Transportation Institute before joining NCAT as a postdoctoral researcher in 2016.

Thursday, October 27th

Featured Speaker



Tony Tavares, Director – California Department of Transportation (Caltrans)

Tony Tavares was appointed the 34th Director of the Department of Transportation (Caltrans) by Governor Gavin Newsom and sworn in June 2022. Director Tavares manages a nearly \$20 billion budget and more than 22,000 employees who oversee 50,000 lane miles of highway, maintain approximately 20,000 bridges, provide permitting of more than 400 public-use airports, fund three of Amtrak's busiest intercity rail services and provide transit support to more than 200 local and regional transit agencies.

Director Tavares' transportation vision for California addresses critical climate issues and advances a safe, equitable, accessible, sustainable, and multimodal transportation system that builds on strong partnerships and robust stakeholder engagement. He fosters a people-first culture built on the principles of Safety, Equity, Climate Action, and Economic Prosperity -- furthering a California for all. He encourages innovation and intelligent risk-taking, as transformative innovation will be needed to achieve zero traffic-related deaths and serious injuries by 2050 and reduce greenhouse gases (GHGs) by 40% by 2030.

Director Tavares most recently served as Director of Caltrans District 7, which encompasses expansive Los Angeles and Ventura counties. As District 7 Director, he oversaw transportation systems in a dynamic region that boasts 25% of California's population; an annual construction program of more than \$2 billion; and some of the most innovative solutions to help move people and goods through Southern California, part of the 5th largest economy in the world.

Prior to overseeing District 7, he served as Caltrans Bay Area Director (District 4) where he was instrumental in implementing California's landmark Senate Bill 1 (SB1), the Road Repair and Accountability Act. Tavares also progressed Caltrans' goals as he served on several boards of regional transportation planning agencies, joint powers authorities and transit development.

From 2010 to 2018, Director Tavares served as the statewide Division Chief for Maintenance. There, he directed 7,000 multi-disciplinary professional employees with an annual budget allocation of almost

ROI and the future of partnering in the construction industry



Sam Hassoun, President & CEO – Global Leadership Alliance

Sam Hassoun is the Founder and President of Global Leadership Alliance.

He started his engineering career with the Bechtel Corporation, where he worked on several nuclear power plants as well as space and defense projects in Michigan, Texas, and California.

After joining Caltrans in 1988, Sam spent several years in design, construction, and maintenance of numerous transportation projects.

He was appointed to the Director's Office as the Quality Program Manager for Caltrans, and subsequently served as the Office Chief of Partnering where he was

responsible for developing and incorporating Partnering principles and specifications into Caltrans construction projects as a way of doing business. Sam pioneered Caltrans to be the first public agency to have on-line performance measures for Partnering.

Under Hassoun's leadership, GLA has partnered and been involved with hundreds of infrastructure projects around the world totaling over \$50 Billion.

Sam Hassoun is a recipient of many national and international awards and has been featured numerous times in many technical and industry publications. He was named by ENR as one of the top 25 National Newsmakers in the construction industry.

Sam is a Senior Fellow at the American Leadership Forum and holds a certificate in Mediation and Conflict Resolution from UC Berkeley. He is an international trainer, a keynote speaker and presenter on Partnering and Leadership, and a consultant to numerous organizations and companies on Collaborative Dispute Prevention Systems.

FHWA Update



Chu Wei P.E., Asset Management/Pavements Engineer – FHWA California Division

Chu Wei is the FHWA Asset Management/Pavement Engineer in the California Division Office. He entered into this position in April of 2019 and he is responsible for providing stewardship and oversight of the pavement, materials, highway performance monitoring system, and asset management programs. He holds B.S. degree in civil engineering and M.S. degree in infrastructure system engineering from the University of Minnesota. He is a registered professional engineer in California. Chu previously worked for the Minnesota Department of Transportation, US Army Corps of Engineers, and Federal Energy Regulatory Commission. When he is not at work, he enjoys biking, running, playing volleyball, and spending family time with his young twins.

The Road Forward Initiative



Brandon Milar, P.E., Technical Director, CalAPA

As a licensed Civil Engineer in California, Brandon Milar serves as the Director of Technical Services for the California Asphalt Pavement Association (CalAPA). Mr. Milar received his Bachelor of Science Degree in Civil Engineering from the California Polytechnic State University at San Luis Obispo. In his current role, he works with the asphalt pavement industry and owner/agencies throughout California with the development of asphalt pavement standards, the training of technical personnel, and the research of new pavement technologies. For over 25 years, Mr. Milar has provided technical support for processing aggregates, designing, and testing of asphalt mixes, constructing asphalt pavements, and implementing innovative pavement technologies. When not working on "all things asphalt" he enjoys the exploration of the National Parks in the western U.S., golfing, photography, and sharing a meal with friends and family.

Compaction of Asphalt Pavements



DingXin Cheng Ph.D., Director of the California Pavement Preservation (CP2) Center

Dr. DingXin (Ding) Cheng is a professor of the department of civil engineering at the California State University, Chico, director of the California Pavement Preservation (CP2) Center, and the director of the Tire Engineering Research Center. He has more than 70 peer-reviewed publications related to pavement materials and preservation in Transportation Research Board, AAPT, ASCE, and other conferences. Ding has co-managed or managed more than \$9 million research projects funded by California Department of Transportation (Caltrans), California Department of Resources Recycling and Recovery (CalRecycle), Metropolitan Transportation Commissions (MTC) of San Francisco Bay Area, and other agencies and industry. Ding has helped the CP2 Center developing an asphalt pavement lab. Dr. Cheng serves as the Chair of the TRB Pavement Preservation Committee and the member of the TRB Pavement Maintenance Committee. In the past, he served on the FHWA Pavement Preservation Expert Task Group, and NCHRP panels. Dr. Cheng has also worked on several NCHRP projects and FHWA sponsored research projects.

Long-Life Pavements in California



Cathrina Barros P.E., Chief Office of Asphalt Pavements, Caltrans Pavement Program

Cathrina has 25 years working in Materials, Geotechnical and Pavement Engineering throughout her Caltrans career. In District 4, she worked in Engineering Services and Construction before her promotion to District Materials Engineer. As DME, she was responsible for running the District 4 Materials Laboratory, Independent Assurance Branch and QC/QA program. She moved to Translab to work in the Office of Asphalt Concrete as the Independent Assurance Program coordinator. While at Translab, she worked with the Districts, academia and industry to implement the use of warm mix asphalt in Caltrans. She also supervised the Reference Sample Program and Skid Testing Unit. In 2015, she acted as the AASHTO/WASHTO coordinator for Caltrans and then worked in the Americans with Disabilities Act Infrastructure Program (ADA IP) in the Office of Civil Rights. She has spent the past two years as the manager for the ADA IP, Contract Evaluation Branch and Engineering Support Branch.

Cathrina is a graduate of the University of Illinois at Chicago and is a licensed Civil Engineer. She is looking forward to returning to her engineering roots and once again contributing to the asphalt pavement community.

Utilizing Chemical WMA to Achieve Sustainability Goals and Reduce Emissions



Ashley Batson, Manager of Government Relations, Road Construction – Ingevity

Ashley Batson joined Ingevity in 2021 as Manager of Government Relations for Road Construction where she supports Ingevity's Pavement Technologies business. Prior to joining Ingevity, Batson served as the Executive Director of the South Carolina Asphalt Pavement Association (SCAPA), where she played a vital role in supporting the industry that constructs and maintains high-quality roads across the state of South Carolina. Batson earned her bachelor's degree at Clemson University, where she earned dual degrees in Communication Studies and Spanish. Batson went on to earn her Juris Doctorate from the Charleston School of Law. She currently serves as the on the Board as Treasurer for the national Women of Asphalt and also serves on the board for TRIP, a National

Transportation Research Nonprofit. Batson resides in Mount Pleasant, South Carolina with her husband Will and their two sons, William Wade and Wells

Environmental Product Declarations (EPDs)



Jeremy Peterson-Self P.E., Office Chief Materials Management and Independent Assurance – Caltrans METS

Jeremy Peterson-Self is the Office Chief for the Office of Materials Management and Independent Assurance within Materials Engineering and Testing Services (METS) at Caltrans. He represents METS on various internal and external committees while overseeing many of METS corporate functions including the Independent Assurance (IA) Program and Materials Management support activities. He has a varied construction materials background having served on the Caltrans Concrete Technology Training Team, Pavement and Materials Partnering Committee - Asphalt Task Group, overseeing the initial implementation of the Caltrans/Industry Joint Training and Certification Program (JTCP) and the centralization of the IA Program

Dominika Ercolini P.E., Chief, Statewide Materials Support Branch – Caltrans METS

Dominika is a graduate from the University of California, UC Davis with a BSCE.

Dominika started her career in the private industry as part of the Program Management/Project Controls team on the Transbay Transit Center project in 2013. She then joined the METS team in 2016. During her time with METS, she has had the opportunity to act in various roles, such as Facility Auditor, Materials Representative, METS Quality Manager, and most recently, the acting Chief of the Concrete Materials Testing Branch. Dominika is very excited for this opportunity to act in her new (permanent!) role in the METS Statewide Materials Support Branch.

In her spare time, you will find Dominika spending time with her pride and joy, her big baby rottweiler ("Hammer"), playing tennis, sporting clay shooting, or hanging out at Lake Berryessa in the summer with her friends and family.

Using Existing Roadway Materials for Pavement Rehabilitation



Allen King P.E., Senior Transportation Engineer – Caltrans

Allen King is a Senior Transportation Engineer with Caltrans. He leads the Recycling Branch within the Office of Asphalt Pavements specializing in asphalt smoothness and in-place recycling strategies which help to reduce GHG emissions. He has been with Caltrans for 14 years and has worked in Construction, METS, Design, and most recently the Pavement Program which provides technical guidance to the 12 Caltrans Districts on how to design, maintain, and construct asphalt paved roads. He has two bachelor's degrees in Civil Engineering and Engineering Management from University of the Pacific and a master's degree in Transportation Management from San Jose State University. He is a registered civil engineer in the State of California.



Frank Farshidi P.E., Division Manager – City of San Jose

Frank Farshidi is pavement maintenance division manager for City of San Jose. Frank has worked at City of San Jose for the past 8 plus years and has managed a growing pavement program with a current maintenance budget of roughly \$100 million and maintaining over 6,000 lane miles of streets annually.

Frank worked previously at University of California Pavement Research Center where he managed various research projects for Caltrans and other Federal/state and local agencies.

Frank is a registered civil engineer in the State of California and holds a PhD and MS in Civil Engineering from University of California, Davis, and a BS in Civil Engineering from California State University, Fullerton. He has over 10 years of pavement engineering experience including pavement design, infrastructure asset management, material characterization, and personnel training in the State of California.



Marco Estrada, Division Manager, Pavement Recycling Systems

Marco is the Director of Business Development for Pavement Recycling Systems of California. Marco is a graduate of the University of Texas at Austin, School of Engineering. He is an Industry Co-Chair for the Caltrans Pavement & Materials Partnering Committee (PMPC), as well as of the Green Book Stabilized Base Task Force. For over 30 years, he has been involved in both the engineering and construction industries in the implementation of soil stabilization and asphalt recycling engineering strategies



Dennis McElroy, FMG Division Manager – Graniterock

Dennis has worked for Graniterock for 11 years with his focus being primarily on asphalt milling, Cold In-Place Recycling, and Full Depth Reclamation. He is the Recycling representative at the Caltrans PMPC Asphalt Task Group (ATG) and is the President of the Recycling and Stabilizing Association of CA. Dennis is also active in real estate and spends his free time with his wife, two girls and their 130 lb boxer/mastiff.

Using New & Existing Technologies to Improve Paving Quality & Efficiency



Todd Mansell – Product Application Specialist Caterpillar

Todd has worked in the asphalt paving industry for over 25 years as a laboratory and field technician, lab manager, field inspector, materials engineer and quality control manager for employers in both the United States and Canada. Currently employed by Caterpillar Global Paving in Maple Grove, Minnesota, Todd delivers paving and compaction operations training and consulting for Caterpillar customers worldwide. Todd has a passion for quality paving and for testing new and innovative paving equipment, technologies, and paving practices. Todd is an active member in several paving industry associations, committees and task groups including NAPA, AAPT, NCAT, CTA, TRB and IICRG.

Personal interests include fishing, woodwork and history

Friday, October 28th

Use of Recycled Materials in Seal Coat Systems



Doug Ford, President – Pavement Coatings

Effective Pavement Program Management



John Harvey Ph.D., Director – City and County Pavement Improvement Center (CCPIC)

John Harvey is Professor of Civil and Environmental Engineering and Chair of the Transportation Technology and Policy graduate studies program at UC Davis, and Director of the UC Pavement Research Center (UCPRC). He is Principal Investigator for a wide range of pavement projects for Caltrans, FHWA, FAA, CalRecycle, the California Air Resources Board and industry. He is a registered civil engineer in California.

Sample Preparation



Kevin McNeil, Research & Technical Services Asphalt Products Manager – Graniterock

Kevin McNeil has 35+ years of experience in the design, production, and testing of Asphalt Concrete. He also has extensive knowledge in soils testing, aggregate testing, and PCC testing. His professional growth occurred with several major materials producers in the SF Bay Area and the Sacramento region. He holds certifications for materials testing related to Caltrans testing, NICET, ACI, and nuclear gauge operations. Mr. McNeil's current position as the Research & Technical Services HMA Manager with Graniterock Company allows him to apply his expertise to collaborate with customers, industry and agency stakeholders, resolve issues, and promote growth and innovation in the asphalt industry.



Jackie Wong P.E., Chief of the Office of Central Laboratories – Caltrans METS

Ms. Jacquelyn (Jackie) Wong is the Chief of the Office of Central Labs overseeing the testing and quality assurance of aggregate, asphalt, concrete, steel, and chemical-based products. Her teams are responsible for managing and improving test methods, authorized materials lists (AMLs) and exploring research and sustainability opportunities for these materials. She has contributed to various Industry-involved technical committees including but not limited to the Pavement and Materials Partnering Committee (PMPC), several Caltrans materials committees, AASHTO and FHWA.

Some of Jackie's accomplishments include helping Caltrans adopt lower-carbon Type II cements and begin the implementation of its Environmental Product Declaration (EPD) efforts which has fueled her passion for moving the needle on materials sustainability and lifecycle thinking of our infrastructure network.



Guadalupe Magana P.E., Chief, Asphalt Binder and Hot Mix Asphalt Branch- Caltrans METS

Guadalupe Magaña began her engineering career with Caltrans in the Office of Structures Construction and worked for six years as an assistant structure representative. She has also worked as a structure estimator and specification development engineer. She spent nine years with the Office of Construction Contract Standards maintaining and developing Standard Specifications. In 2014, she joined METS as a Quality Manager and in 2018, she became the Chief of the HMA Branch overseeing the implementation and management of the JMF Prequalification Program. As the Chief of the Asphalt Binder and HMA Branch she also manages the Asphalt Supplier Certification Program.

Continuous Asphalt Pavement Density Measurement



Maurice Arbelaez, Vice President of Sale and Marketing – Instrotek

Mr. Maurice Arbelaez, Vice President of Sales and Marketing of the InstroTek Companies., is a native of Colombia, South America, and currently resides in Raleigh, North Carolina. Maurice received his degree from North Carolina State University in Business Administration and International Business in 2001. Maurice was hired at InstroTek in 2003 and is responsible for all commercial aspects of the company including sales of nuclear density meters. During his time at InstroTek, he has worked with some of the largest asphalt research institutions in the United States including, the Texas Transportations Institute (TTI), The National Center for Asphalt Technology (NCAT), and The Federal Highway Ministration (FHWA). During his tenure at InstroTek, Maurice has been involved in acquiring of three companies including, CPN International, HMA Lab Supply, and The Rainhart Company. He has led InstroTek sales and marketing efforts helping InstroTek grow to a world-recognized leader in construction materials testing products. Maurice's expert knowledge of the asphalt industry has helped him establish numerous specifications for InstroTek products in the United States. Maurice attends numerous industry events and meetings worldwide to discuss the latest testing issues and technology solutions with researchers, government officials, and contractors. He is a member of 8 asphalt pavement associations, including California, Virginia, and Colorado. Maurice has worked in over 24 countries with numerous distributors to introduce the InstroTek product line to international markets.