

ICSI 2021 Theme: Leveraging Sustainable Infrastructure for Resilient Communities
December 6 - 10, 2021

Times are EST

DAY	TIME/DURATION	EVENT(S)				
Available 24 Hours	24 hr	Coalition Summit Videos				
	24 hr	Technical Tours: ASCE Parking Lot Project, Ion Center, Katy Prairie Conservancy, Bridgeland Development in Cypress, Port of Houston Ship Channel				
	24 hr	Abstracts for all presentations				
	24 hr	Posters				
	24 hr	Attendee Networking				
	24 hr	Sustainable Development Infrastructure Fund (SDIF) Supporter information				
DAY 1: Global Perspectives						
	10:00 AM - 10:10 AM ET	Opening Welcome Addresses Dennis Truax, ASCE 2022 President; Carol Haddock, ICSI 2021 Chair; Barbara Luke, ICSI 2021 Technical Program Committee Chair				
	10:10 AM - 10:55 AM ET	Plenary: Addressing Equity of Climate Impacts in Water-stressed Communities Moderator: K.N. Gunalan Speaker: Shamila Nair-bedouelle, Assistant Director-General for Natural Sciences at the United Nations Environment Programme (UNEP), UNESCO (invited)				
	10:55 AM - 11:25 AM	Plenary: Introduction: Luic Fauchon (invited); Prince Albert of Monaco (invited)				
	11:25 AM - 11:30 AM ET	BREAK				
	11:30 AM - 12:20 PM ET	HOT TOPIC 1 Doing the Right Projects on the United States-Mexico Border, Anthony Kane*, <i>Institute For Sustainable Infrastructure</i> , Oscar Cortes, <i>Federacion Mexicana de Colegio de Ingenieros Civiles</i> ; David Baxter, <i>World Association of Public Private Partnerships</i> ; Calixto Mateos-Hanel, <i>North American Development Bank (invited)</i>		HOT TOPIC 2 Come Hell and High Water: Building Resilience for a Sustainable Houston, Laura Patino, <i>City of Houston</i> ; Sharon Citino, <i>Houston Public Works</i> ; Stephen Costello, <i>City of Houston</i> ; Adam Eaton*, <i>Houston Public Works</i>		HOT TOPIC 3 Incorporating Holistic Sustainability and Resilience into Civil Engineering Projects Donovan Finn, <i>Stony Brook University</i> ; Caroline Field, <i>Ove Arup & Partners</i> ; Jarrod Loerzel, <i>National Institute of Standards and Technology</i> ; Elaina Sutley*, <i>University of Kansas</i>
MONDAY Dec 6		Track 1: Coastal resiliency Liv Haselbach	Track 2: Green infrastructure Cliff Davidson	Track 3: Vulnerable communities Riley McKillop	Track 4: Sustainable Infrastructure: The Big Picture Krishna Reddy	Track 5: Energy Resilience & Reliability Anthony Kane
		A Resilient Texas Coastline - Aligning Our Natural and Built Infrastructure for the Future, Chris Levitz*, James Gibeaut, and Taylor Nordstrom, <i>AECOM</i> ; Joshua Oyer, Texas General Land Office; Tony Williams, <i>Texas General Land</i> ; Kelly de Schaun, <i>Galveston Island Park Board of Trustees</i>	Engaging Owners in Low Impact Development (LID): Lessons Learned from Implementing Sustainable Design with Public and Private Institutions, Rucker Simon*, <i>Walter P Moore and Associates, Inc.</i>	Hurricane Dorian's Impact on The Bahamas: Making the Case for a Risk Management Based Approach to Infrastructure in a Small Island Developing State, R. Nicholas Dean* and De'Shae Dean, <i>Integrated Building Services, Ltd.</i>	From Results-Oriented to Process-Oriented: Leveraging Disruptive Practices to Face Complex and Uncertain Futures, Quin MacKenzie* and Bronwyn Worrick*, <i>luuceo consulting inc.</i>	*Design of Interconnected Infrastructure Systems for Resilient and Sustainable Communities, Teresa Vangeli*, <i>WSP USA</i> ; Laura Micheli, <i>Catholic University of America</i> ; Mehrshad Ketabdar, <i>Southern California Gas Company</i> ; Scott Campbell, <i>National Ready Mixed Concrete Association</i> ; Brian McSweeney, Amit Joshi, and Chris Horiuchi
		Coastal Resilience and Sustainable Infrastructure Management System, Daniel Campbell*, <i>Caribbean Engineering and Design Consultants Ltd (CEDCO)</i>	Use of Green Stormwater Infrastructure to Sustainably Address Changing Storms, Matthew Jones* and Alysondria Eason, <i>Hazen and Sawyer</i>	Humanitarian Crisis Engineering at a Refugee Camp, Erin Hughes*, <i>Solidarity Engineering</i>	Defining a Sustainability Path to Meet Short and Long-Term Goals, Jennifer Ninete* and Ned Bagniewski*, <i>HDR</i>	Inspection Planning for Transmission Line Systems Exposed to Hurricanes using Reinforcement Learning, Ashkan Jeddi*, Nariman Dehghani, and Abdollah Shafieezadeh, <i>The Ohio State University</i>
		Galveston Bay Park Plan SSPEED Center (Severe Storm Prediction, Education, & Evacuation from Disasters), Charles Penland*, <i>Walter P Moore and Associate, Inc.</i>	Green Infrastructure for the Anthropocene: An Early Career Perspective, Alysha Helmrich*, <i>Arizona State University</i> ; Marissa Matsler, <i>Office of Research & Development, US EPA</i>	Green-Gray Infrastructure for Coastal Climate Resilience, Emily Corwin*, <i>Conservation International</i> ; Will Peterson, <i>AECOM</i>	Tiered Quantitative Assessment of Life Cycle Sustainability and Resilience (TQUALICSR): Framework for Sustainable Design Assessment, Krishna Reddy*, Jaqueline R. Robles, Suzane A. V. Carneiro, and Jyoti K. Chetri, <i>Univ of Illinois at Chicago</i>	Feasibility of Pumped Hydroelectric Storage Within Existing United States Army Corps of Engineers' Facilities: A Methodological Approach, F. Todd Davidson and Kyle Kass*, <i>United States Military Academy</i>
		Findings from Two Flood Disaster Response Exercises for Southeast Texas, Liv Haselbach and Natalie Tindall, <i>Lamar University</i> ; Christine Thies and Harold Evans, <i>University of Texas</i> ; Carman Apple, <i>Texas Division of Emergency Management</i>	Measurement and Modeling of Hydrologic Flows and Energy Flows on a Large, Extensive Green Roof in Syracuse, New York, Cliff Davidson*, Courtney Gammon, Alexander Johnson, Christa Kelleher, and Jianshun Zhang, <i>Syracuse University</i> ; Carl Flynn, <i>McKinsey & Company</i> ; Mallory Squier-Babcock, <i>LaBella Associates</i> ; Lucie Worthen, <i>Arcadis</i> ; Yige Yang, <i>Paradigm</i>	Comprehensive Stakeholder Engagement in an Emergency Management and Debris Project, Julia Evans*, Maria Covolo, and Giovanna Durand, <i>RINA Consulting</i>	Incorporating Sustainability in an Undergraduate Environmental Engineering Curriculum, Ramanitharan Kandiah*, <i>Central State University</i>	*Grid-Interactive Efficient Buildings: Leveraging the Federal Building Stock to Support the Future Grid – A Case Study from Central Islip, New York, Clayton Porcaro*, John Swanton, Brad McCoy, and F. Todd Davidson, <i>United States Military Academy</i>

			Stormwater Capture/Infiltration/Reuse Case Studies: Improving Regional Sustainability and Watershed Resiliency, Jennifer Walker*, Watearth		Creating More Gender-Responsive Infrastructure: Major Opportunities Ahead, Cristina Contreras Casado*, Harvard University / Sinfranova LLC	Thermal Energy Corporation: Real Life Benefits of Microgrids, Steve Swinson*, Thermal Energy Corporation
		Live Discussion	Live Discussion	Live Discussion	Live Discussion	Live Discussion
	1:50 PM - 2:00 PM ET	BREAK				
	2:00 PM - 3:30 PM ET	Plenary: How Do We Scale Sustainable and Climate Resilient Infrastructure to Achieve the UN SDG's by 2030? Moderator: Elise N. Zoli, Partner Jones Day/Stimson Center/ACRE Speakers: Joyce Coffee, President, Climate Resilience Consulting , Frank Nutter, President Reinsurance Association of America ; Peter Hall, Vice President/Wood Engineering/ACRE Ambassador COP26; Andrew Wishnia, Deputy Assistant Secretary for Climate Policy, US DOT				
	3:30 PM - 5:30 PM ET	Special Session: Solving Infrastructure Disaster Recovery Problems in Consideration of UN Sustainable Development Goals (SDG) Lead Moderators: April Lander, Warren Ladbrook; Breakout Moderators: Bill Kelly, Tom Smith, K.N. Gunalan, Brett Phillips, Robin Kemper, Dennis Truax, Jean-Louis Briaud, Cristina Contreras (invited) - Panagiotis Chatzipanos (invited)				
5:30 PM - 6:00 PM ET	Networking Opportunities: ENV SPs; Young Members in Sustainability					
DAY 2: Climate Impacts on Sustainable and Resilient Infrastructure						
	Opening Welcome Address Tom Smith, ASCE Executive Director; Terry Neimeyer, COS Chair					
10:00 AM - 10:10 AM ET	Plenary: Post-Black Swan Event Infrastructure: Lessons Learned and Plans for the Future Moderator: David Miller, Former Mayor of the City of Climate Leadership Group ; Speakers: John Williams, Chair, Institute for Sustainable Infrastructure ; Nick Russo, Harris County Texas ; Jainey Bavishi, NYC Mayor's Office of Resiliency ; Mark Pestrella, LA County Public Works					
10:10 AM - 11:40 AM ET	BREAK					
11:40 AM - 11:45 AM ET	BREAK					
11:45 AM - 12:35 PM ET		HOT TOPIC 4 Current Sustainability Practices of U.S. Transit Agencies Moderator: Antoinette Qualiata, Dewberry Engineers Inc .; Cris Liban, Los Angeles County Metropolitan Transportation Authority; Amy Shatzkin; WMATA (invited)		HOT TOPIC 5 Climate Migration and the Importance of Host-Recovery Cities in Disaster Recovery, Jordanna Rubin*, AECOM		
TUESDAY Dec 7		Track 1: Healthy Communities and Their Role in Sustainable Infrastructure Theresa Harrison	Track 2: Resilience (Part 1) Liv Haselbach	Track 3: Climate and Society April Lander	Track 4: Flooding and Water Infrastructure Michael Bloom	Track 5: Decarbonization and Electrification Anthony Kane
			Integrated Framework for design and management of Sustainable and Resilient Infrastructure in a Changing Climate, Leila Ahmadi* and Zoubir Lounis, National Research Council Canada	Effects of Climate Migration on Town-to-City Transitions in the United States: Proactive Investments in Civil Infrastructure for Resilience and Sustainability, Alexandra Maxim* and Emily Grubert, Georgia Institute of Technology	Houston's Coordinated Approach to Sanitary Sewer Overflow Prevention, Sarah Robinson* and Ogadinma Onyebuchi*, Houston Public Works ; Aby Varghese*, City of Houston ; Emily Chacon, Houston Health Department	The Distributional Impacts of California's Gas to Electric Heating Transition, Salma Elmallah*, UC Berkeley
			Advancing Infrastructure Resilience through Infrastructure Institutions, Alysha Helmrich* and Mikhail Chester, Arizona State University	Empowering Communities through Climate Change Engagement and Capacity Building, Jessica Sisco and Claire Bonham-Carter, AECOM ; Felix Aponte-Gonzalez*, Foundation for Puerto Rico; Julio Garcia, Nuestra Casa	Grey to Green Infrastructure, Natalie Chaney*, RPS Infrastructure, Inc.	Columbus, Ohio's path to Vehicle Electrification, Katherine Zehnder*, HNTB ; Scott Lowry
	12:35 PM - 2:05 PM ET	The American Public Health Association's Joint Call to Action for Healthy Communities and Its Role in Planning, Designing, and Constructing Sustainable Infrastructure, Moderator: Theresa Harrison	Resilience Dividends and Resilience Windfalls: Narratives that Tie Disaster Resilience Co-Benefits to Long-Term Sustainability, Jennifer Helgeson* and Cheyney O'Fallon, NIST		Hydraulic Modelling for Flood Risk Management of Underground Infrastructure Systems, Michael Martello and Andrew Whittle, Massachusetts Institute of Technology	Decarbonizing the Largest Ferry Fleet in the United States: Washington State Ferries Journey towards Zero Emissions, Patty Rubstello, Kevin Bartoy*, Alec Williamson, David Sowers, and Matt Von Ruden, Washington State Ferries ; Joshua Berger, Washington Maritime Blue

	Moderator: Theresa Harrison City of South Bend, IN, DPW, Engineering Division (Retired)	Balancing Trade-Offs Between Efficiency and Resilience in Pursuit of Sustainable and Adaptable Infrastructure Systems, Sam Markolf*, University of California, Merced	Monitoring the Stability of a Moraine Dam by Differential Interferometry (DInSAR) to Prevent GLOFs Disasters from Arhuaycocha Lake, Juan Carlos Torres and Harrison Jara, National Institute for Research in Glaciers and Mountain Ecosystems (INAIGEM); Christian Riveros*, National Agrarian University La Molina (UNALM)		Why Standardize Carbon Neutrality in Delivery of Complex Projects? Colin Duffield; Felix Hui; Judy Too* and Obuku Ejhgwomu, The University of Manchester
		Are Resilience, Climate Change Adaptation, and Sustainability Planning Approaches Compatible? Results of a Comprehensive Assessment Across Community-Focused Guidance Literature, Emily Walpole and Christopher Clavin*, NIST			Sustainability Approach with Resiliency Planning in Transmission Line Engineering, Ajay Mallik* and Sangita Mallik, SANPEC Inc
		Live Discussion	Live Discussion	Live Discussion	Live Discussion
	2:05 PM - 2:15 PM ET	BREAK			
2:15 PM - 3:45 PM ET	Plenary: Engaging to Serve: Fighting Systemic Oppression through Systematic Community Engagement Speakers: Joseph James, Virginia Polytechnic Institution and State University; Yvette Pearson, University of Texas at Dallas; Frederick Paige, Virginia Tech - Department of Civil & Environmental Engineering				
3:45 PM - 5:15 PM ET		Technical Tour 1: Freedmen's Town Historic District, Zion Escobar, Exec Director, Freedmen's Town		Special Event: Understanding Life Cycle Impacts for More Sustainable, Resilient, and Inclusive Infrastructure - Life Cycle Assessment (LCA), Cost Benefit Analysis, and Envision LD 3.3 Economic Analysis, Lindsey Geiger, Institute for Sustainable Infrastructure; Eric Bill, Autocase	
DAY 3: Triple Bottom Line of Sustainability – Social, Environmental, Economic and Civil Engineers' Role					
10:00 AM - 10:10 AM ET	Opening Welcome Address				
10:10 AM - 11:40 AM ET	Plenary: Community Equity Agreements (CEAs): Engaging with Frontline- Communities to Identify and Incorporate Enforceable Commitments During the Design and Review of Major Infrastructure Projects				
11:40 AM - 11:45 AM ET	BREAK				
11:45 AM - 12:35 PM ET	HOT TOPIC 6 Gordie Howe International Bridge: Connecting Communities Beyond Four Wheels, Moderator: Catherine Sheane, Parsons Corporation; Speakers: Bruce Campbell, Parsons Corporation; Nicole Flippance, Bridging North America; Heather Grondin* and Karey Thatcher, Windsor Detroit Bridge Authority; Lori Newton, Bike Windsor Essex		HOT TOPIC 7 Kowis Street Improvements: The First Houston / Harris County Area Project to Pursue Envision Verification, Moderator: Niki Foster, KCI; Speakers: Michael Bloom*, R.G. Miller Engineers, Inc.; Milton Rahman, Harris County Precinct (invited); Amanda Marshall, Harris County Engineering Department; Evan Shields, Cobb Fendley & Associates; Conner Stokes, Hallaway Environmental & Communications		HOT TOPIC 8 Justice, Equity, Diversity, and Inclusion (JEDI): Improving Our Profession, Improving Our World, Moderator: Yvette Pearson, University of Texas at Dallas; Speakers: Quincy Alexander, Army Engineer Research & Development Center; Carol Martsof, Urban Engineers; Frederick Paige, Virginia Tech - Department of Civil & Environmental Engineering
	Track 1: Sustainable Procurement Theresa Harrison and Nancy Kralik	Track 2: Resilience (Part 2) Laura Patino	Track 3: People: Social, Society, Stakeholders (Part 1) Tera Haramoto	Track 4: Planning, Procurement, and Finance Eric Bill	Track 5: Sustainability in Transportation Projects Veronica O. Davis
		Planning for Climate Resilience in Coastal and Inland Wastewater Systems, Ryan Gustafson, Lynn Grijalva, Peace Maari, Michelle Chebeir, Anni Luck, and Matthew Jones, Hazen and Sawyer	Social Justice Is the Major Factor for City of Los Angeles Policymaking, Katrina Forbes*, City of Los Angeles Bureau of Engineering; Slavica Hammond*, Parsons	City of San Antonio - Climate Action & Adaptation Plan - 2050 Net Carbon Neutrality - Economic Analysis to Inform Policy Trade-offs, Costs, and Public Benefits, Eric Bill*, Autocase; Douglas Melnick, City of San Antonio - Office of Sustainability	The Envision® Rating System and Its Impact on Transit Agency Projects, James Heeren*, Dewberry Engineers Inc.; Thomas Abdallah*, Metropolitan Transportation Authority Construction and Development; Anthony Kane*, Institute for Sustainable Infrastructure
	Application of a Resilience Matrix Framework to Wastewater Treatment Facilities to Identify and Address Resilience Shortcomings, Alex Pytlar, Stephanie Nam*, Chelsea Linvill, Annesley Black*, Andrew Pfluger, and Brad McCoy, United States Military Academy		Do Infrastructure Deserts Exist? Measuring and Mapping Infrastructure Equity in the City of Dallas, Zheng Li*, Janille Smith-Colin, Jessie Zarazaga, Xinlei Wang, Barbara Minsker, Southern Methodist University	Innovative Economic Analysis and Triple Bottom Line Valuation of Multi-Purpose Green Infrastructure Assets and Lessons Learned for Future GI Project Planning, Michelle Garza, San Antonio River Authority; Eric Bill*, Autocase	Partially Prestressed GFRP-Reinforced Concrete Piles in a Continuous Flat-Slab Bridge Structure: Inducing Resilience of Civil Infrastructure, Christian C. Steputat* and Antonio Nanni, University of Miami; Steven Nolan, FDOT State Structures Design Office

WEDNESDAY Dec 8 12:35 PM - 2:05 PM ET	Sustainable Procurement for Infrastructure , Nancy Kralik, <i>Fluor Enterprises, Inc.</i> ; Theresa Harrison, <i>City of South Bend, IN, DPW, Engineering Division (Retired)</i> , Cris Liban, Margaret Sedgwick, Bernard Deneke,	Strategies for Improving the Resilience and Sustainability of Critical Infrastructure – Lessons Learned from the United States Army , Stephen McCarthy, Ke'shaun Wells, Phoebe Lee, F. Todd Davidson, R. Neil Blackwell, Aubrey Evans, Christine Panlasigui, Duncan Russell, and Brad McCoy*, <i>United States Military Academy</i>	*Improving Walkability by Focusing on Residents' Needs and Neighborhood's Built Environment , Abolfazl Seyrfar and Pooria Choobchian*, <i>University of Illinois at Chicago</i> ; Ali Mohammadi, <i>Sharif University of Technology</i>	*Public-Private Partnerships for Environmental, Social, and Governance Projects: How Private Funding for Infrastructure Can Produce Mutual Benefits for Companies and the Public , Joel Farrier* and Amanda Chao*, <i>Burns & McDonnell</i>	Design Ideals for Extreme Heat Resiliency: Applications in Public Transit Systems , Matthew DeJonge and Sydney Hope, <i>Burns & McDonnell</i>	
		Recommended Options for Improving the Functional Recovery of Lifeline Infrastructure Systems , Sissy Nikolaou*, Katherine Johnson, Siamak Sattar, Steven L. McCabe, <i>NIST</i>	The Nexus of Sustainable Urban Design and Human Security , William Lyons*, <i>Fort Hill Companies LLC</i>		Management Practices & Data Tools for Large, Multi-disciplined Infrastructure Projects Pursuing Envision Certification , Zach Youngerman, Chad Sardashti, and Teresa Vangeli*, <i>WSP USA</i>	
			Strategies for Increasing Resiliency and Sustainability in Public Works , Lorraine Moreno*, <i>City of Los Angeles</i>		Gordie Howe International Bridge: P3 Project Leadership Vision to Enhance Sustainability Performance , Catherine Sheane*, <i>Parsons Corporation</i> ; Cheryl Beuning, <i>Bridging North America Contractors</i> ; Thomas Redstone and Karey Thatcher, <i>Windsor Detroit Bridge Authority</i>	
	Live Discussion	Live Discussion	Live Discussion	Live Discussion	Live Discussion	
	2:05 PM - 2:10 PM ET	BREAK				
	2:10 PM - 3:10 PM ET	Plenary: World-Class Sustainability Leadership through a Diverse Workforce Moderator: Tera Haramoto, Los Angeles County Public Works Speakers: Christine Harada, Executive Director of the Federal Permitting Improvement Steering Council and Former US Federal Chief Sustainability Officer ; Catherine Flowers, Center for Rural Enterprise and Environmental Justice and Vice Chair of the White House Environmental Justice Advisory Council ; Gretchen C. Daily, Co-founder and Faculty Director of the Stanford Natural Capital Project ; Director of the Center for Conservation Biology and Bing Professor of Environmental Science, Stanford University; Senior Fellow, Woods Institute				
	3:10 PM - 4:00 PM ET	Technical Tour: Brazoria County Solar Farm			Technical Tour: Memorial Park Master Plan	
4:00 PM - 5:00 PM ET	Virtual Piano Party Happy Hour					
THURSDAY	DAY 4: Community Transformation through Sustainable Infrastructure					
	10:00 AM - 10:10 AM ET	Opening Welcome Address Mayor Sylvester Turner, City of Houston <i>(Invited)</i>				
	10:10 AM - 11:40 AM ET	Plenary: A Conversation on IMPACT: Infrastructure Mobilizing People And Community Transformation (Carol Haddock/Don Anderson)				
	11:40 AM - 11:45 AM ET	BREAK				
	11:45 AM - 12:35 PM ET		HOT TOPIC 9 A New Day for Green and Multi-Benefit Infrastructure/Programs in LA County: the Safe Clean Water Program , TJ Moon and Matt Frary*, <i>Los Angeles County Department of Public Works</i>		HOT TOPIC 10 The Resiliency Cycle , William Deane, Paul Tschirky* and Andrew Wycklent, <i>APTIM</i> ; Chip Kline, <i>Louisiana Coastal Protection and Restoration Authority</i>	
		Track 1: Transportation Systems Theresa Harrison	Track 2: Sustainability of Buildings and other Structural Systems Krishna Reddy	Track 3: People: Social, Society, Stakeholders (Part 2) Anthony Kane	Track 4: Materials and Construction Components (Part 1) Imisioluseyi Akinyede	Track 5: Local Lessons: Learning from One Another Griselda Gonzales
		Baking Resilience into Transportation Planning , Keith Bucklew*, <i>HDR Inc.</i>	Enhanced Investigation of Material Flood Damage to Support Multi-Scale Flood Loss Prediction , Anna Katya Opel* and Elizabeth Matthews, <i>Louisiana Tech University</i>	The Promise of Shared Electric Autonomous Mobility (SEAM) to Close Mobility Gaps for Vulnerable Populations , William Lyons*, <i>Fort Hill Companies LLC</i>	Impacts of Material Properties on the Resilience of the Built Environment , Aron Newman*, <i>NIST</i>	The Roadmap to Resilience for Small to Medium Size Communities , Cheryl Kelley*, <i>Missouri Department of Natural Resources</i> ; Dana Al-Qadi, <i>AECOM</i>
	Resilience is the Future of Transportation Networks , Kristin Tremain Davis, T. Luke	*Mapping Standards and Rating Measures of Structural Green Roofs for Socio-Environmental Life Cycle Assessments , Fariborz Tehrani*, <i>California State University, Fresno</i> ; Mohammad Ali Dastan Diznab, <i>Arak University</i>	Using Integrative Design as a Lean Tool in Sustainable Infrastructure Development , Daniel Odion*, <i>Ascension Construction Solutions</i> ; Bernard Otumun, <i>Gafcon, Inc.</i>	*Sustainability Rating of Internally-Cured Concrete in Marine Environments Using Service Life Prediction Models , Mohammad Ali Dastan Diznab and Fateme Davodijam, <i>Arak University</i> ; Fariborz Tehrani*, <i>California State University, Fresno</i>	Merced Avenue Greenway Project: A Model for Future Greener Urban Streets , Chris Jansen*, <i>Tetra Tech</i>	

Dec 9	12:35 PM - 2:05 PM ET	Young*, and Tatum Lau, <i>AECOM</i>	Future Projected Changes in Moisture Index over Canada , Abhishek Gaur, Fiona Hill, and Michael Lacasse, <i>National Research Council of Canada</i> ; Henry Lu* and Hua Ge, <i>Concordia University</i>	Evaluating the Potential of Sustainability Rating Systems to Address Social Equity , Jennifer Ninete*, Adam Yeeles*, and Kim Sosalla-Bahr*, <i>HDR</i>	Addressing Embodied Carbon as a Sustainability Issue and Implementing New Technology to an Industry that Resists Change , Sydney Hope*, <i>Burns & McDonnell</i>	Integrated Resilient Design for an Urban Wilderness Park , Christina Hughes, Walter P Moore; Randy Odinet*, <i>Memorial Park Conservancy</i>
		Driving the Future of Transportation Planning Through Emerging Trends , Andrew Reid*, <i>Burns & McDonnell</i>	A Holistic Approach to Evaluating the Sustainability and Resiliency of Buried Drainage Structures Relative to Climate Change , Michael Pluimer*, <i>University of Minnesota - Duluth</i>	The Inspiration of Power: Art, Culture, and Distributed Renewable Energy Infrastructure , Elizabeth Monoian, Sean Fahmian*, and Matthew DeJonge, <i>Burns & McDonnell</i> ; Robert Ferry	Improvements in Building Energy Savings through Two-Layer Phase Change Materials (PCM) Systems Tailored for Different Indian Climate Zones , Ghanshyam Pal* and Silambarasan Chithiravel, <i>Shiv Nadar University</i>	Josey Lake: Transforming Stormwater Management into an Amenity , Andrew Konyha*, <i>Clark Condon Associates, Inc.</i> ; Mark Gehringer, <i>Howard Hughes Corporation</i> ; Mike Fitzgerald, <i>BGE, Inc.</i>
		Small Changes, Large Effects: Interconnected Infrastructure Networks in Food Supply Chain Disruptions and Multi-Modal Transportation Solutions , Rae Zimmerman*, <i>New York University</i>	A Holistic Approach to Evaluating the Sustainability and Resiliency of Buried Drainage Structures Relative to Climate Change , Michael Pluimer*, <i>University of Minnesota - Duluth</i>	All the Easy Roads Have Been Built – Building Social Capital for More Resilient Communities , Chelsey Smith*, <i>Burns & McDonnell</i> ; Melissa Meyer and Christine Polito, <i>Texas Department of Transportation</i>		Bridgeland, A Master Planned Sustainable Community , Mark Gehringer*, <i>Howard Hughes Corporation</i>
		Live Discussion	Live Discussion	Live Discussion	Live Discussion	Live Discussion
	2:05 PM - 2:15 PM ET	BREAK				
	2:15 PM - 3:15 PM ET	Plenary: Community Transformation Through Water Management Moderator: Dale Jacobson; Speakers: Loic Fauchon, World Water Council (invited), Karin Krchnak, Program Manager, World Bank 2030 Water Resources Group				
	3:15 PM - 4:30 PM ET		Technical Tour: Kendeda Building for Innovative Sustainable Design , Shan Arora, <i>Director</i>		Technical Tour: BRT to Houston Galleria	
4:30 PM - 5:00 PM ET	JEOPARDY! - Hosted by the Texas Advisory Committee - All Welcome!					
FRIDAY Dec 10	DAY 5: Ensuring a Future of Resilient and Sustainable Infrastructure					
	10:00 AM - 10:10 AM ET	Opening Welcome Address Larry Goldberg, <i>ICSI 2021 Co-Chair</i> ; Harini Arjun, <i>ICSI 2021 Texas Advisory Committee</i>				
	10:10 AM - 11:40 AM ET	Plenary: Ensuring Infrastructure is Resilient and Sustainable - Advancing the Triple Bottom Line - Standard Requirements for Sustainable Infrastructure – A New ASCE Standard , Moderator: Brad McCoy, Chair, ASCE Sustainable Infrastructure Standards Committee ; Speakers: Tom Bostick, Chair National Academy BICE, former Chief USACE ; Katherine L. Gregory, Rear Admiral (Retired) ; Jennifer Cass, Senior Vice President & Chief of Staff, Capital Program New York City Economic Development Corporation				
	11:40 AM - 12:10 PM ET	Plenary: Global Adoption of Sustainability Standards , Brian Finlay, <i>Stimson/ACRE</i>				
	12:10 PM - 12:15 PM ET	BREAK				
	12:15 PM - 1:45 PM ET	Track 1: Summary of ICSI Summit Sessions	Track 2: Imagining Future Cities Cliff Davidson and Mikhail Chester	Track 3: Standards, Technology, and Modeling Krishna Reddy	Track 4: Materials and Construction Components (Part 2) Sabrina Moore	Track 5: Contaminants and Repurposing Waste Julia Clarke
		International Coalition on Sustainable Infrastructure Summit Content and Discussion	Urban Infrastructure: Reflections for 2100 , Cliff I. Davidson*, <i>Syracuse University</i> ; Mikhail V. Chester, <i>Arizona State University</i> ; Sybil Derrible, <i>University of Illinois Chicago</i> ; Lynette Cheah, <i>Singapore University of Technology and Design</i> ; Matthew J. Eckelman, <i>Northeastern University</i> ; Kris Hartley, <i>The Education University of Hong Kong</i> ; Nadine Ibrahim, <i>University of Waterloo</i> ; Shoshanna Saxe, <i>University of Toronto</i> ; Yoram Shifan and Alona Nitzan-Shifan, <i>Technion</i>	*Will it Work? Examining Alignment of Four Infrastructure Solutions with the Draft ASCE 73: Standard Requirements for Sustainable Infrastructure , James Bieler, Duncan Russell, Andrew Zeidler, Claude E. Barron, and Brad McCoy*, <i>United States Military Academy</i>	Changes in New Pipe Acceptance Standards are Paving the Way to Sustainable Infrastructure , Chuck Hansen*, <i>Hansen Analytics LLC</i>	Incorporating Spatial Scale into Resilience Ratings for Sustainable Post-Disaster Material Management Systems , James Hanson, Derek Manheim*, and Nazli Yesiller, <i>California Polytechnic State University</i>
What does Sustainable Infrastructure mean...and what should it mean? Josh Jacobs*, <i>WAP</i>				Estimating the Effectiveness, Benefits, and Costs of Reflective Asphalt Coatings for Mitigating Extreme Heat in a Desert Urban Environment , Ashley Broadbent and Matt Fraser, <i>Arizona State University</i> ; Sam Markolf*, <i>University of California, Merced</i> ; Chris Hoehne, <i>National Renewable Energy Laboratory</i>	Geotechnical Engineering Contribution For Sustainable Dredging , Mirko Felici, Evelina Fratolocchi, and Federica Pasqualini*, <i>Università Politecnica delle Marche</i>	
		Using Design Automation to Make Smarter Infrastructure Decisions: An Engineer Learns to Code , Tyler Ortego*, <i>Forterra Inc.</i> ; Nicholas Brady, <i>Natrx</i>	Recycling Waste Plastic in Roads: Opportunities, Challenges and Potential , Greg White* and Finn Hall, <i>University of the Sunshine Coast</i>	Phytoremediation: A Cost-Efficient and Environmentally-Sound Remediation Technology for Widespread Applications , Matthew DeJonge and Sydney Hope*, <i>Burns & McDonnell</i>		

	1:45 PM - 2:00 PM ET		Assessing Climate Change Uncertainty for Infrastructure Planning with Physical-Parameter-Based State-Space Models and Bayesian Inference, Yuchuan Lai*, Peter Adams, and Matteo Pozzi, <i>Carnegie Mellon University</i>	*Objective Comparison of Sustainable Asphalt Concrete Solutions for Airport Pavements, Demi Van Den Heuvel*, <i>Centre for Pavement Engineering Education</i> ; Greg White, <i>University of the Sunshine Coast</i>	Sustainability Aspects of Coir-Fiber Geosynthetic Rolled Erosion Control Products, Jennifer Smith; Shobha Bhatia*, <i>Syracuse University</i>
				The Significant Sustainable Benefits Afforded by Geosynthetics in Key Infrastructure Applications: A Review, Ian Fraser*, <i>TCS Geotechnics</i> ; David Shercliff, <i>ABG Ltd.</i>	Life Cycle Assessment of Sediment Control Devices, Susan Burns and Hejintao Huang*, <i>Georgia Institute of Technology</i> ; Cameron Troxel, <i>Whitman, Requardt and Associates, LLP</i>
			Live Discussion	Live Discussion	Live Discussion
ICSI 2021 Wrap-Up					

Posters

A Resilient Traffic Signal Control System Using Artificial Intelligence, Wangyu Ma*, *The Transtec Group*

BIM/GIS Integration for Regional Railways Asset Management, Manuel Garramone*, *Politecnico Di Milano* ; Marco Scaioni, *Politecnico di Milano* ; Eliana Tonelli, *Politecnico di Milano*

Building a Framework for Resilient Stakeholder Engagement to Support Equitable Infrastructure Project Outcomes, Janille Smith-Colin*, *Southern Methodist University* ; Collin Yarbrough, *Southern Methodist University*

***Eat Prosperity Campaign**, Bryan Toton*, *Eat for Prosperity, Inc.*

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