



Descriptions of Sessions for Professional Development Hours (PDHs)

Tracks: Innovate, Integrate, Inspire

All sessions on Thursday, July 30, and Friday, July 31 are one (1) PDH.

The Laws, Rules & Ethics Governing the Practice of Engineering in Florida on Saturday, August 1, is two (2) PDHs.

Thursday, July 30, 2026

10:30 – 11:30 am	Innovate: Rehabilitating the Shark Channel Bridge John Weres, P.E., RSP1, Gresham Smith Built in 1910 for Flagler's Railway, the Shark Channel Bridge is now a key FKOHT link. After a 2022 closure due to cantilever failure, its rehabilitation balanced modern engineering with historic and environmental preservation. This session explores the technical evaluations and design decisions required to restore this legacy asset, which reopened in November 2025. Gain insight into adapting historic infrastructure for modern needs. Integrate: Communications as an Engine for Innovation for Strategic Program Delivery Albert Salas, P.E., FDOT, Florida's Turnpike Enterprise Liz Campos, M.S., HDR This presentation shows how strategic communications can drive change and strengthen program delivery. Using Florida's Turnpike Enterprise - Transportation Operations division as a case study, the presentation will illustrate how internal communications acted as a change agent to systemically improve delivery. Beyond the case study, the session will provide practical tools and resources that participants can apply within their own organizations.
1:15 – 2:15 pm	Innovate: Sewer, on Demand. Building Capacity and Utilities One Connection at a Time Bo Tucker, PR, OnSyte Performance Florida's urgent need for sewer expansion is often stalled by high costs and long timelines, leading to development moratoriums as utilities struggle to match growth with capacity. By implementing Distributed Wastewater Treatment Systems (DWTS), Lake County provides immediate sewer service to unsewered areas without requiring existing collection networks or centralized treatment capacity, effectively overcoming traditional infrastructure barriers.

	Integrate: From Classroom to Career: Building the Engineering Workforce Tejsingh Rana, PE, Highway Studios, LLC This session presents practical strategies to strengthen Florida's civil engineering workforce through mentorship, student engagement, and early-career development. Drawing from experience with FDOT, FES, ACEC, STEM Board and academic partners, it highlights proven approaches organizations can use to improve recruitment, retention, and career growth while building and sustaining the next generation of engineering professionals.
2:30 – 3:30 pm	Innovate: FECON - Risk Assessment and Mitigation: Building a Risk-Averse Organizational Culture Eric Jimenez PE, Ardmore Roderick Bryce Guignard, Guignard Company Alexandra Jimenez, PMA Consultants This course provides a structured, technical overview of enterprise risk assessment and mitigation practices applicable to engineering, construction, and infrastructure-focused organizations. Participants will learn systematic methods for identifying, analyzing, evaluating, and mitigating risks across operational, financial, strategic, compliance, reputational, and environmental domains. Emphasis is placed on integrating risk management into organizational culture, governance, and decision-making frameworks to enhance resilience, regulatory compliance, and long-term business continuity.
	Integrate: The Use of Agentic AI for Enabling Civil Design Samuel Worthy, P.E., RS&H Within the engineering industry, Artificial Intelligence can be a powerful tool but integrating it effectively requires careful planning, configuration, and training. There are many hidden challenges with development of AI tools; from governance of software licensing to liability of information that is parsed and summarized. This presentation will provide an overview of the best practices and considerations to manage the governance of these tools.
4:00 – 5:00 pm	Innovate: Engineering the Message: Technology and Professional Communication Kelly Flowers, MBA, JM, MA, MS, MIA, MA, Jones Edmunds The engineering profession is redefining how work is communicated and understood. This session explores how engineers can use digital tools, social media, and AI ethically to educate the public, manage risk, and explain complex concepts—while preserving credibility, judgment, and professional standards.
	Integrate: Engineered for Success: Designing Autonomous Transit Systems Lisa Nisenson, WGI Inc. Sierra Eades, AIA, WGI Inc. Florida is a national leader in autonomous vehicles, including the nation's first public transit system in Jacksonville. AV transit requires a larger coordinated effort including planning, mobility, digital infrastructure, and an array of engineering services. This session reviews the engineer's role and vital areas of integration such as transit facilities, street design, public works, utilities, urban planning, and stakeholder engagement.

Friday, July 31, 2026

9:00 – 10:00 am	Innovate: AI in Transit: Engineering Infrastructure Beyond the Algorithm Nicola Ianeselli, MBA, Chen Moore & Associates This session explores how Artificial Intelligence moves "beyond the algorithm" to transform Florida's transportation infrastructure. We examine the shift from static models to dynamic Machine Learning for traffic optimization, structural health monitoring, and pavement lifecycle prediction. Attendees will learn actionable strategies to integrate AI tools that enhance resilience and safety while maintaining critical engineering oversight.
	Integrate: Bridging the Gap: Recruiting and Retaining Entry- & Mid-Level Engineers Edward Gonzalez, PE, Patel, Greene & Associates Odelkys Cobb, PE, Rummel, Klepper & Kahl Michelle Buitron, PE, Patel, Greene & Associates LLC Pravel Drachev, PE, Colliers Engineering & Design Alexandria Stanley, Bayer United Engineering Consultants, LLC Vincent Locigno, PE, Chen Moore & Associates, Inc. With infrastructure demand rising and engineering graduates decreasing, firms face a critical "talent vacuum." This ACEC ELB panel addresses the shrinking tenure of entry- and mid-level engineers by diving into what actually keeps them: company support, growth opportunities, and excellent benefits. Join the Emerging Leaders Board to learn why prioritizing retention over recruitment is the best strategy to bridge today's widening talent gap.
	Inspire: Creative Resilience: Cross-Discipline Innovation from Planning to Design Ben Moore, AICP, ENV-SP, RS&H, Inc. Lindsey Koren, PE, RS&H, Inc. Intensifying storms and more frequent floods threaten Florida's transportation systems. Readiness requires integrating data-driven planning and innovative design to enhance safety, reduce disruption, and lower costs. This session will feature inspiring cross-discipline case studies in aviation, aerospace and surface transportation development that showcase planners and designers collaborating to solve resilience challenges with creative methods.
10:15 – 11:15 am	Innovate: Engineering Beyond the Algorithm: Innovating Railroad Crossing Safety Artem Khaybullin, PMP, AlfKa Diana Ramirez, PE, AlfKa Local railroad crossings create safety challenges when agencies control limited ROW and rail partners are unresponsive. This session shows how engineers moved beyond the algorithm by integrating planning, innovation, and leadership to improve safety at 40+ crossings in six months. Attendees will learn a tiered framework and practical collaboration strategies for resilient, community-centered solutions.
	Integrate: Resilient Shorelines: Utilizing Green and Grey Infrastructure to Combat the Effects of Sea Level Rise Brent Whitfield, PE, ENV SP, Chen Moore & Associates Justin Tangle, PE LEED AP, Chen Moore & Associates Charmaine Emanuels, PE, Chen Moore & Associates Leonard Barrera Allen, PE, ENV SP, CFM, WEDG, Cummins Cederberg Inland Panelists will share practical engineering lessons learned from advancing resilient shoreline projects from concept through construction in diverse coastal environments.

1:30 – 2:30 pm	Innovate: Re-Engineering the Mind: From Stress to Clarity Shireen Chada, PE, The Brahma Kumaris Tejsingh Rana, PE, Highway Studios, LLC Engineers manage constant deadlines, decisions, and responsibility, often leading to mental fatigue that affects clarity and performance. This session introduces practical, easy-to-apply tools to reset thought patterns, reduce stress, and restore focus for better decision-making, communication, and effectiveness in demanding work environments.
	Integrate Track: Advancing Fully Integrated Model Delivery Eddie Giese, PE, Patel, Greene & Associates, LLC This presentation focuses on best practices and lessons learned for management of highway 3D models. Special emphasis is given to a case study of our innovative pilot project in Florida which features a fully-integrated 3D model and where the models are serving as the signed and sealed legal construction document. This project also served as a pilot for Bentley's iTwin Design Review. The presentation will share bidding and construction anecdotes.
	Inspire Track: Bioretentions Journey: Nature Based Roots to Modern Stormwater Solutions Sarah Matin, PE, Advanced Drainage Systems Bioretention has evolved from nature-based systems in the 1990s to advanced designs addressing modern stormwater challenges of changing regulatory landscapes, emerging nutrients of concern and increasing site constraints. This session explores media innovations for nutrient removal, standardized testing, and regulatory impacts like Florida's new stormwater rule which emphasizes pollutant load reduction, removal performance and O&M costs.
2:45 – 3:45 pm	Innovate: Public Trust in AI, Digital Twin, Cyber-Informed Engineers & Remote Access Ben Amaba, PhD PE CPIM LEED AP, Anology Solutions Domenic Forte, PhD, University of Florida - Engineering As AI, digital twins, & cyber-physical systems transform critical infrastructure, engineers must design for physical safety & digital resilience. This panel unites leaders from government, utilities, academia, policymakers, licensed engineers, and UF's Institute for National Security to explore how Cyber-Informed Engineering and the Remote Access Side Channel (RASC) chip embed cybersecurity as a core safety requirement and inform future standards.
	Integrate: Indemnification Uncovered: How Contract Language Impacts Risk and Liability Mark Jackson, ARM, JCJ Insurance Agency Erin Johnson, RPLU, JCJ Insurance Agency Examine how contract language plays a critical role in managing risk, with an in-depth look at indemnification provisions to evaluate potential impact on your firm. We'll explore how broadly written indemnification clauses and other risk-shifting terms can create obligations beyond what's covered by professional liability insurance and analyze how applicable statutes and regulations affect the legality and enforceability of common provisions.

	Inspire: Fore! Proactive Coastal Resiliency at the Gulf Stream Golf Club Jordon Cheifet, PE, Cummins Cederberg Colton Manning, PE, Cummins Cederberg Leonard Barrera-Allen, PE, Cummins Cederberg The Gulf Stream Golf Club faces increasing flood risk from sea level rise, king tides, storm surge, and rising groundwater. This presentation examines how tidal and rainfall influences affect surface and subsurface flooding and outlines a data-driven approach to assess vulnerability and develop phased mitigation strategies to improve long-term coastal resiliency.
4:15 – 5:15 pm	Innovate: Bridges as Engineering Heritage and Landmarks in Numismatics and Philately Mohamad Hussein, PE, GRL Engineers, Inc. Bridges, coins, paper money, and stamps are tools of communication that make a functioning society possible. They are beautiful and fascinating masterworks of art and technology. Bridges are depicted to symbolize vision and determination, scientific and technological advancements, engineering and construction achievements, and purposeful progress. This presentation discusses the legend of bridges as engineering heritage in popular culture.
	Integrate: Beyond Factors of Safety: Practical Risk Controls for Berm Erosion, Seepage Faseel Khan, PhD, P.E., NADIC Engineering Services LLC A practical, Florida-focused talk on reducing berm failure risk from erosion, seepage, and overtopping. Using Mt Dora and similar casework, it connects field observations, failure modes, and targeted analyses to choose effective controls (armoring, drainage, filters, cutoffs, overflow paths) and set inspection/monitoring triggers that stop minor distress from becoming a breach.
	Inspire: Preparing the Next Generation for a Hybrid Human AI Profession Trevor Gross, University of Florida As AI increasingly shapes engineering workflows, the role of the engineer is evolving beyond technical analysis alone. This session explores how the profession can prepare current and future engineers for a hybrid human–AI environment, emphasizing leadership, ethics, judgment, mentoring, and professional accountability over reliance on algorithms or tools.
Saturday, August 1, 2026	
8:30 – 10:30 am	The Laws, Rules & Ethics Governing the Practice of Engineering in Florida Edwin Bayo, Grossman, Roopnarine, & Bayo, LLC Licensees are required to obtain one (1) hour of continuing education focusing on Florida's professional engineering laws (F.S. 471) and rules (F.A.C. 61G15). Licensees are required to obtain one (1) hour of continuing education focusing on ethics for professional engineers. These courses are expected to cover the basic engineering canons.