

# 2025 ANNUAL CONFERENCE

**502 EVENT CENTRE** 502 E Carmel Dr, Carmel, Indiana




**SCHEDULE**

## JUNE 5-6 2025

**THURSDAY JUNE 5, 2025**

12 - 1 PM	EDUCATION FOUNDATION MEETING
1 - 2 PM	EXECUTIVE BOARD MEETING
3 - 5 PM (1 PDH)	<b>OFF-SITE TOUR :</b> US Signal Indianapolis North Data Center 701 W Henry St, Indianapolis, IN 46225 Don Johnson & Greg Meyer <b>*TICKETED EVENT*</b>

7 - 8 AM	REGISTRATION & BREAKFAST WITH EXHIBITORS	
8 - 8:50 AM (1 PDH)	<b>NSPE ETHICS</b> Amy Barrett, PE This presentation will go over the Code of Ethics and Board of Ethical Review then attendees will have the opportunity to discuss ethics cases and how they relate to NSPE's Code of Ethics.	
8:50 - 9 AM	AM BREAK	
9 - 9:50 AM (1 PDH)	<b>INDIANA STATUTES AND RULES FOR PROFESSIONAL ENGINEERING LICENSURE</b> Tim Jensen, PE, LEED AP, CPESC, CPTED President Veridus Group This session will explain the Indiana Code vs the Indiana Administrative Code, discuss selected statutes and rules as applied to the practice of engineering, registration by comity, registrant's seal, computer-based testing for FE and PE exams, rules for continuing education, audits, board structure and threats to licensure.	<b>2025 INDIANA ELECTRIC VEHICLE INFRASTRUCTURE UPDATE</b> Carl Lisek & Shawn Seals Drive Clean Indiana & Dept. of Env Management This session provides updates on the statewide efforts for medium and heavy-duty fleet electrification, funding opportunities, EV fire safety and response, public transit and municipal fleets and return on investment.
9:50 - 10:20 AM	AM BREAK WITH EXHIBITORS SPONSORED BY:	
10:20 - 11:10 AM (1 PDH)	<b>SYNCHRONOUS CONDENSERS AND THE ELECTRIC GRID</b> Chuck Vamos, PE - Nisource TBD	<b>UNVEILING INSIGHTS TO DATA DRIVEN STRATEGIES</b> Debbie Anderson & Daniel Lorentz Hendricks Power Cooperative Today the utility industry is amass with BIG data from every aspect of our operation and the challenge is utilizing that data for insights and data-driven decisions. This presentation will focus on engineering and operations and how this data can be cleansed, organized, visualized, and utilized in decision-making. The use cases in the presentation will drill into meter, electric vehicle, and pole inspection data.
11:10 - 11:20 AM	BREAK	
11:20 AM - 12:10 PM (1 PDH)	<b>WELLHEAD PROTECTION AT PURDUE UNIVERSITY</b> Dr. Robin Ridgway, PE - Purdue University The state of Indiana is known for its high quality groundwater resources. Groundwater is used for public water supplies and for irrigation and some industrial uses. In many areas of the state, the water can be pumped from the ground and supplied as safe drinking water with little treatment beyond disinfection protection. As such a tremendous resource, it needs to be protected from contamination and that's where robust wellhead protection programs come in.	<b>ENHANCEMENT OF INDYCAR REAR CRASH ATTENUATOR</b> Hamid Dalir, PhD - Purdue University This research aims to develop a reliable finite element framework to investigate the specific energy absorption (SEA) of the rear crash attenuator of an open-wheel-type IndyCar vehicle. A meshed model representing the crash structure was analyzed to determine SEA under different impact configurations by evaluating the force over a crushed displacement.
12:10 - 1:40 PM	<b>INSTALLATION LUNCH</b> SPONSORED BY: 	

NETWORKING  
/BREAKS  
/FOOD

BREAKOUTS

GENERAL SESSION

1:40 - 2:30 PM (1 PDH)	<b>MODULAR JUSTINCE: BUILDING HENDRICKS COUNTY JAIL SMARTER</b> Dustin Parth, Sanjay Patel - RQAW DCCM Sen. Brett Clark (Sheriff) RQAW   DCCM partnered with the Hendricks County Cheriff's Department to design a 158,544 sq. ft. jail facility, administrative offices, and support services building completed in 2023. The forward-thinking, modular-friendly design doubled inmate capacity while maintaining previous staffing levels, incorporating therapeutic spaces and operational efficiency. State-of-the-art MEP systems - including tunable lighting, remote water management, and high-efficiency HVAC - support both rehabilitation and long-term adaptability.
2:30 - 2:50 PM	PM BREAK WITH EXHIBITORS SPONSORED BY:
2:50 - 3:40 PM (1 PDH)	2:50 - 3:40 PM (1 PDH)
<b>PROFESSIONAL LIABILITY INSURANCE SESSION</b> PDI Insurance TBD	<b>ELECTRIC UTILITY CHALLENGES OF SERVING LARGE LOADS</b> Chris Daniels, Director Transmission Engineering Wabash Valley Power Alliance This presentation will explore: what is a large load today, how do we study them, transmission system competition, generation capacity constraints, supply chain challenges, and project execution strategies. It will finish with discussing approaches to these challenges and future considerations in accommodating these loads.
3:40 - 4:30 PM (1 PDH)	3:40 - 4:30 PM (1 PDH)
<b>INDUSTRY – ACADEMIC PARTNERSHIPS TO EDUCATE ENGINEERS WITH AN ENTREPRENEURIAL MINDSET</b> Dr. Binh Tran & Dr. Abner Chen - E.S. Witchger School of Engineering at Marian University The E.S. Witchger School of Engineering at Marian University was established in 2022 develop engineering talent and foster innovation and economic growth to Central Indiana. Through active participation by industry, the innovative hands-on curriculum seeks to instill an entrepreneurial mindset in all graduates by integrating concepts of professional curiosity, real-world connections, and creation of value to solve societal challenges.	<b>SMALL MODULAR REACTOR TECHNOLOGY AND ITS IMPACT FOR INDIANA</b> Stylianios Chatzidakis This session explores the emerging role of small modular reactor (SMR) technology and its potential to transform Indiana's energy landscape. Chatzidakis will highlight how SMRs offer safe, flexible, and carbon-free energy solutions, supporting both industrial growth and clean energy goals. Special focus will be given to opportunities for innovation, workforce development, and regional leadership in advanced nuclear deployment.
4:30 - 4:40 PM	BREAK
4:40 - 5:30 PM (1 PDH)	<b>AI IN DESIGN AND CONSTRUCTION</b> Hubo Cai Professor Purdue University AI is revolutionizing the practice of design and construction. This talk will cover examples of AI applications in design and construction with an emphasis on safety and quality management in construction.

NETWORKING  
/BREAKS  
/FOOD

BREAKOUTS

GENERAL SESSION



INDIANA SOCIETY OF PROFESSIONAL ENGINEERS

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