

Day 1; September 10, 2025; EPRI Charlotte, Bldg 3, room 741			
Start Time 7:00 am	Duration 60 min	Breakfast	Exhibits room; 3-741 a&d
8:00	40 min	Session I; Sensors Needs in Emerging Industries - Welcome & Keynote: R&D Overview and Innovations at CV Rez - EPRI Perspectives on Advanced Sensors & Needs - Non-Destructive Examination Needs for Advanced Reactors - Emerging Sensor Gaps in Nuclear Energy Advancements - An Outlook of Sensor Applications Developing for Fusion	3-741 main
8:40	10 min		J. Brom; CV Rez
8:50	20 min		L. Breon; EPRI
9:10	20 min		B. Gullekson; Dominion Engineering, Inc
9:30	15 min		D. Priestly; Tennessee Valley Authority
9:45	30 min	Break & networking	J. Wall; EPRI
9:45	30 min	Break & networking	Exhibits room
10:15	20 min	Session II; Sensor Applications Across Energy Supply - Sensor Specifications to Support Drilling & Geothermal Applications <i>Sensor Challenges in Generation, Shared Assets, and Future NDE</i> - High Temperature and High Pressure Sensor Needs in GEN - Sensing Applications for Shared Electrical Equipment - Digital Transformation in the LWR Industry <i>MANDE and RIM for Div II considerations</i> - MANDE Perspectives for Solving Advanced Sensor Applications - Rim Overview and Perspectives for Sensor Solutions <i>Rapid Update:</i> Ultrasonic Multi-point Temperature Sensor for Nuclear Reactor Applications	3-741 main
10:35	45 min		C. Wright; NOV
11:20	30 min		T. Sambor; EPRI
11:50	10 min		S. Maley; EPRI
11:50	10 min		T. Massey; EPRI
12:00	60 min	Lunch	R. Meyer; ORNL
12:00	60 min	Lunch	C. Wax; EPRI
1:00	20 min	Session III; Advancements in Conventional Sensor Technology - SHM of Steel Vessels Using an Array of Magnetostrictive Transducers - Advancements in High-Temperature (550°C+) EMATs - Wireless Temperature and Pressure Sensors for Commercial Spent Fuel Storage and Processing <i>Update:</i> High-Temperature Applications of Thick-Film Ultrasonic Sensors - Radiation-Tolerant Guided Wave Ultrasonic Level Instrument - Hybrid EM + UT Probe for Advanced Sensing using Multi-modal Datasets	D. Xiang; X-Wave Innovations
1:20	20 min		
1:40	20 min		
2:00	15 min		
2:15	15 min		
2:30	15 min		
2:45	30 min	Break & Networking	EPRI Cafeteria
2:45	30 min	Break & Networking	Exhibits room
3:15	15 min	Session IV; Innovations in Sensor Technology - Conformable Planar Fiber-Coil Fabry-Perot Ultrasonic Sensor for Harsh-Environment Structural Monitoring and Broadband Testing <i>Update:</i> Practical Examination of Capabilities using Advanced Magnetometry - Feasibility Studies on Strain-Based NDE for Fitness-for-Service Evaluation - Recent Field Performance Development in Ruggedized Diamond Sensors in Energy Applications	3-741 main
3:30	15 min		M. Han; Michigan State University
3:45	15 min		Z. Khan; Kwan-Tek
4:00	20 min		M. Abedrabouh; EPRI
4:20	60 min	Session V; Open Discussion & Icebreaker; Most Important Sensors Issues Facing Energy Supply; Ideation on Solutions	B. Ives; ArQSensors
4:20	60 min	Session V; Open Discussion & Icebreaker; Most Important Sensors Issues Facing Energy Supply; Ideation on Solutions	3-741 main
5:20	160 min	Session VI; Reception and Technology Exhibits	Exhibits room

Day 2; September 11, 2025; EPRI Charlotte, Bldg 3, room 741

Start Time 7:00 am	Duration 60 min	Breakfast	Exhibits room; 3-741 a&d
8:00 8:35	35 min 45 min	Session VII; Advanced Materials & Implementation • Welcome & Keynote: Magnetic Smart Material Sensors • <i>Intersection of Advanced Materials and Sensing Infrastructure</i> • State of Materials & Additive Manufacturing • Real-Time Integrity Feedback on Welding Processes • NDE for Advanced Materials • Advancements in Structural Health Monitoring at INL	3-741 main G. Zabow; NIST M. Albert; EPRI G. Frederick; EPRI G. Connolly; EPRI J. Daw; INL
9:20	20 min		
9:40	30 min	Break & networking	Exhibits room
10:10	20 min	Session VIII; Sensor Support Infrastructure Topics • Demonstration and Qualification: ASME Section V, Section XI Div I Overview	3-741 main R. Swain; EPRI
10:30	20 min	• Sample Production for Non-Destructive Examination Demonstrations	B. Gullekson; Dominion Engineering, Inc
10:50	20 min	• Performance Tradeoff Considerations for Manufacturing Advanced Sensors	J. Wendorf; Evident Scientific
11:10	15 min	• Modeling-Based Design Assistance for Accelerated Sensor Development	R. Demuth; USC
11:25	20 min	• Exploration Results and Use Case Analysis for Non-Classical Sensors	C. Smith; EPRI
11:45	15 min	• Possibilities with a Quantum Photonics System	M. Maisonneuve; Phantom Photonics
12:00	60 min	Lunch	EPRI Cafeteria
1:00	15 min	Session IX; Day 1 Sensor Technology Overflow & Open Discussion • Fiber-Optic Primary Thermometers for Drift-Free Temperature Sensing in Harsh Environments	3-741 main M. Han; Michigan State University
1:15	15 min	• Stretchable Electromagnetic Sensors	Y. Deng; Michigan State University
1:30	2:30	• Mission_Sensors Charter, Future, Next Steps	
2:30	150 min	Session X; EPRI Lab Tours • Advanced Ultrasonics • Creep and Thermal Testing Facilities • Digital I&C • NDE Performance Demonstration • Steam Generator Management and Eddy Current Testing Lab • Welding and Additive Manufacturing	Various, Bldg 1 & 3 * Final tour itinerary to be determined—Please indicate your personal interest in each of these via the registration site!
5:00 pm		Adjourn	

Click here to navigate to the registration site (Or copy/paste the following URL):

<https://web.cvent.com/event/af3d3d49-f889-4a80-b7e5-0db1c79d85a9/summary>