

PIPELINE CORROSION PROTECTION & CATHODIC PROTECTION



Galvanic Cathodic Protection Systems

Tue, Oct 27 | Live Stream Seattle Washington

Join us for a session on Cathodic Protection. What is it? Why do we need it? Find out why early detection is critical. From rebar rotting out to tanks/pipelines rupturing. Find out how this zinc system actively works on your critical metal structures.

Time & Location

Oct 27, 2026, 7:00 AM – 8:00 AM
Live Stream Seattle Washington

About the event

Find out how cathodic protection slows down the corrosion on your metallic systems. What are some great design tips? Where and when is cathodic protection required? Wet, salt air can cause rebar to rot and eventually fail as we saw the condo in South Florida collapse. See how this system works well on fuel tanks and pipelines.

What is Cathodic Protection?

Corrosion is a natural electrochemical reaction that occurs when metals are exposed to moisture, oxygen, and other elements in the environment. Over time, this causes metals to oxidize, deteriorate, and fail. Cathodic protection is a proven electrochemical method used to prevent corrosion of metal surfaces. It works by redirecting corrosion currents away from the protected structure, ensuring long-

term durability and safety. And how does it work? Where is it used? Why is it so important to know? So, here I am to share my expertise on real time industry developmental strategies to protect power resources.



Mounika VB Rudra

Ms. **Mounika VB Rudra** is an enthusiastic and innovative electrical engineering leader who has expertise in Power Systems focused area. An operational & technical expert having 7+ years of service in national level organizations like Schneider Electric and OATI as a senior technical contributor who is responsible for the design, analysis, integration, and validation of complex electrical power architectures supporting radar systems. Also collaborated closely with cross functional teams to ensure power solutions meet performance, reliability, safety, and cost objectives throughout the system lifecycle. Acted as bridge between technical design with daily operations of energy managing teams to optimize generation, transmission, or distribution assets while navigating regulatory compliance and modernization efforts which include leading maintenance planning, troubleshooting, and smart grid

innovation. Isn't it unique to know the basics first? Come join me to get more productive and protective advice for your bright future in power systems. Proper design ensures the current flows to the right areas, effectively halting corrosion using CP methodologies.



Mohamed Essaaidi

Prof. Essaaidi is an internationally recognized leader in artificial intelligence, digital transformation, engineering education, smart cities, and technology-driven sustainable development. With more than three decades of experience spanning academia, innovation, public policy, and international cooperation, he has built a distinguished career at the intersection of technology, education, and societal impact. He is a Prof. and former Dean of ENSIAS – School of Computer Science at Mohammed V Univ. in Rabat, Morocco, and former Director General of the EMSI Engineering Group. He also served as Chief of Party of the Interactive Digital & XR Center at Mohammed VI Polytechnic Univ. (UM6P), and as Director of International Cooperation at the Moroccan Ministry of General Affairs and Governance, where he contributed to major strategic initiatives including the World Bank Group Morocco Country Partnership Framework and the OECD Morocco Country Program. An IEEE Senior Member, he has held several global leadership positions within IEEE, including Founding Chair of IEEE Morocco Section, Global Chair of IEEE SIGHT (Special Interest Group on Humanitarian Technologies), and Chair of the IEEE Humanitarian Technologies Board Programs Committee. He has authored and co-authored

16 books and more than 245 papers in international refereed publications in AI, electrical and computer engineering, digital technologies, and their societal applications. His contributions also include 10 patents in ICT. Prof. Essaaidi has led and co-organized major international conferences and initiatives in collaboration with IEEE, the U.S. National Academies, NATO, NSF, and other global organizations, including the IEEE Smart Cities Summit, ICTIS Symposium, International Conference on Multimedia Computing and Systems, NSF Smart Sustainable Cities Workshop, and the Arab American Frontiers Symposium. He regularly serves as an international expert and advisor for organizations such as the United Nations, UNESCO, ITU, the European Union, ICESCO, and UCLG Africa on AI, digital transformation, engineering education, innovation, and sustainable development. His distinctions include the 2024 IEEE Education Society William E. Sayle II Award, the 2024 APEX Grand Award, the 2023 IEEE MGA Larry K. Wilson Transnational Award, and membership in IEEE-



Sweta Gupta

Author Clandestine Director at relief alliance and at Wealth strategy media and CEO at Grid less Global. She is also an Electrical Engineer with an MBA and a Speaker.