INSTITUTE OF CORROSION

ICORR INDIA BRANCH

Tuesday 20th January 2026
Start Time: 3:00 PM (Indian Standard Time)(GMT +5:30)

Online Presentation Only
Registration link:
https://us06web.zoom.us/webinar/register/WN_CDbqSi3HT-q-8UiyTVhpMg

Event is Free of Charge to Attend, Prior Registration is Required.

Advances in the technology of corrosion inhibitor

Speaker: Prof Shweta Goyal

Professor & Head, Civil Engineering Department, Thapar Institute of Engineering and Technology, Patiala

Approximate Event Programme

15:00 – 15:10 (IST) **Webinar Login / Set-Up**
15:10 – 15:15 (IST) **Introductions ICorr**
15:15 – 16:00 (IST) **Technical Presentation**
16:00 – 16:10 (IST) **Q&A Session**
16:10 – 16:15 (IST) **Closing Remarks**

The Talk: Advances in the technology of corrosion inhibitor

Synopsis: The talk focuses on the role of corrosion inhibitors in mitigating corrosion of reinforced concrete (RC), a primary cause of structural deterioration. Corrosion initiates when the protective passive film on reinforcing steel is destabilized due to reduced pore solution pH or increased chloride concentration, allowing aggressive ions to penetrate concrete and induce localized corrosion. Among various physical and electrochemical protection methods, corrosion inhibitors are widely adopted as a cost-effective solution to extend service life. Used in low concentrations, inhibitors reduce corrosion rates and may offer additional self-healing functionality. They are classified based on chemical composition, application method, and protection mechanism. The talk will discuss inhibitor performance in different aggressive environments, with emphasis on emerging green inhibitors exhibiting self-sensing and self-healing capabilities.

Presenter

Prof Shweta Goyal

Prof. SHWETA GOYAL is currently serving as Professor and Head in the Civil Engineering Department of Thapar University. She has been actively involved in research and have handled various research projects over Rs. 700 Lakhs INR sponsored by Govt. of India agencies and industry. Her areas of research include corrosion evaluation in RC structures and development of various protection strategies; which includes corrosion inhibitors, bio-based end products and cathodic protection. She is also working on development of accelerated carbonation procedure for precast concrete and research oriented towards sustainability of concrete. She has more than 150 publications in SCI listed journals and conferences. She has delivered enormous keynote lectures in the international and national conferences. Her work has also been awarded at various platforms. She is working in close association with industries to develop and test the compound targeting better corrosion prevention. Currently, her H-index stands at 28

Additional Information: For Continuing Professional Development (CPD) or to join our Mailing List, Request by Email to: INDIAchair@icorr.org