

Working Party 4 cap busy period with landmark award

The 10th Henri Coriou Award will be given to Ingrid Proriol Serre at EUROCORR, which marks the beginning of an active few months for the Working Party on Nuclear Corrosion



Ingrid Proriol Serre (left) will be awarded the prestigious WP4 Henri Coriou Award for outstanding contribution to corrosion science and engineering in the nuclear field at EUROCORR in Stavanger

This year, the prestigious WP 4 Henri Coriou Award for outstanding contribution to corrosion science and engineering in the nuclear field will be given to Ingrid Proriol Serre (Unité Matériaux et Transformations, Lille University, France). The award ceremony will take place at EUROCORR at 16:30 on 8 September in room Synesvar den (Forum Building).

Ingrid Proriol Serre's career has focused on understanding corrosion-mechanical couplings, particularly in extreme environments. For more than 20 years, she has contributed significantly to the study of interactions between corrosion and mechanical stress, particularly in the context of structural materials for nuclear applications involving liquid metals and, more recently, molten salts.

She has developed and adapted various mechanical testing methods in the presence of liquid metals under conditions found in nuclear systems. Her analyses span multiple scales and techniques, including XRD, SEM-EDS-EBSD, and ToF-SIMS, to understand damage mechanisms and microstructural evolution. Her work has not only identified mechanisms responsible for material degradation but has also proposed material solutions and operational conditions to mitigate damage under mechanical stress in liquid metal environments. She mentors students, focusing on damage analysis and the behaviour of materials under combined mechanical and environmental stresses. Dr. Proriol Serre contributes to international working groups, including

the OECD-NEA, in liquid metal-based nuclear technologies, and has been involved in WP 4 activities for several years.

6th Online Seminar on Nuclear Corrosion

Adrien Couet, Professor in the Department of Nuclear Engineering and Engineering Physics (University of Wisconsin-Madison, USA) hosted the WP 4 6th Online Seminar on Nuclear Corrosion with an excellent talk on accelerated alloy discovery for molten-salt reactors via high-throughput corrosion testing and machine learning. The talk was attended by 30 people and was followed by an interesting Q&A session. For those who missed it, the recording is available on the [Young EFC YouTube](#) channel.

Nuclear Corrosion session at EUROCORR

More than 40 oral and poster presentations are scheduled at the excellent nuclear corrosion session in Stavanger from Monday to Wednesday, where the Fall WP 4 Business Meeting is planned for 10 September at 15:00 in the Synesvar den room (Forum Building).

Another exciting event around the corner

Preparations have already begun for the next Nuclear Corrosion Summer School (NuCoSS-27), which is set to take place around July 2027, likely in Slovenia. More information will be available in the April edition of the EFC Newsletter and on efcweb.org/WP4 in early 2026.