



On the occasion of the **CORROSION AWARENESS DAY 2023** the **EFC Working Party 4** will hold its **4th online seminar on nuclear corrosion**:

**Stress corrosion cracking of austenitic alloys:
From the Coriou effect to the stress corrosion
cracking of stainless steel***

Prof. Damien Féron

Past-President of the EFC & WCO, Past-Chair of the EFC WP 4

Tuesday, April 25, 2023, 14:00 to 15:15 CEST (CEST/UTC+2)

Online via Zoom

Please register (free of charge) to receive the link to the virtual meeting room:

https://dechema.zoom.us/webinar/register/WN_5eLdMRtRyyNhfpAocIURA

The presentation will focus on a historical perspective, from the choice of Alloy 600 in pressurised water reactors (PWRs) to its 'prohibition' and ends with a few considerations regarding the stress corrosion cracking (SCC) of stainless steels in the primary circuit of PWRs. Also investigations regarding the SCC mechanisms via the use of stable isotopic tracers will be presented. The end of the talk includes a brief summary of the recent SCC incidents in part of the French PWR fleet.

**) This talk is based on the plenary lecture given at the opening of the 20th Int. Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors in Snowmass Village, CO, USA, on July 17-21, 2022.*



For more activities of the WP 4, please visit www.efcweb.org/wp4.html !