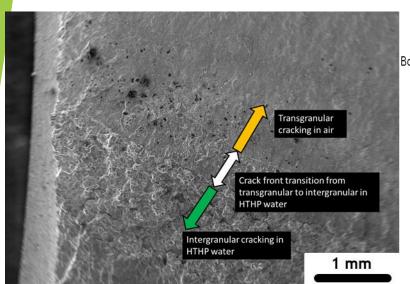
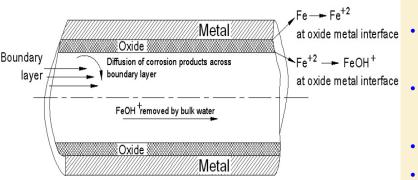
Corrosion Degradation in Light Water Reactors

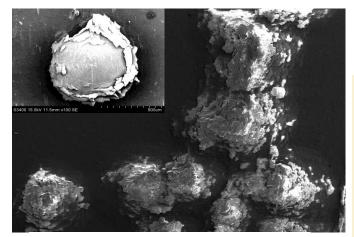
HBNI - INSTN Joint Course (December 06 – 10, 2021)



Intergranular Stress Corrosion Cracking in SS 304L in simulated BWR environment



Mechanism of Flow Accelerated Corrosion on CS



Nodular corrosion in Zircaloy

Course content:

- Materials of construction for main components of LWRs
- Introduction to corrosion problems in LWRs, water chemistry
- Stress corrosion cracking of austenitic stainless steels and nickel based alloys
- Intergranular corrosion of nickel based alloys
- Corrosion problems in zirconium alloy cladding
- Flow accelerated corrosion in carbon steel pipelines
- Water chemistry and its control to mitigate corrosion problems

Who should attend?

Basic knowledge of corrosion degradation mechanisms and their mitigation methods covered in standard text books is a prerequisite for the participants. The course covers advanced knowledge and is suitable for the following:

- Students pursuing Masters (2nd year)
- · Ph.D. students
- Young Engineers/Researchers







- This course is jointly organised by Homi Bhabha National Institute(HBNI)-DAE, Mumbai, India and National Institute for Nuclear Science and Technology (INSTN)-CEA, France.
- The lectures will be delivered by international experts in the field, in hybrid (Offline + Online) mode, both from INSTN-CEA, France and HBNI-DAE, India.
- The course consists of **27 hours** of lectures, spread over **5 days** (each day 2 lectures of 3 hours each).
- Examination will be held at end of the course.

Registration Fee:

Participants from CI/OCC of HBNI - NIL

Student participant from any other institution than HBNI - Rs. 1000/-

Participant from other DAE Institutions - Rs. 3,000/-

Participant from Government Institutions other than DAE- Rs. 5,000/-

Participant from a Private Institution - Rs. 10,000/-

The registration fee would cover course material for all participants and tea & lunch for participants attending physically at HBNI.

Last Date of Registration: 30th November, 2021

For details about registration please contact:

Dr. A.K. Dureja, Associate Dean,

Homi Bhabha National Institute, Anushaktinagar, Mumbai-94

Email: <u>dureja@hbni.ac.in</u>

Phone: +91-22-25597629 or 25597627













