



The Materials Ageing Institute Offers

Materials Degradation Course For Engineers in the Nuclear Industry

November 19-22, 2019,
hosted by CGN/SNPI , Suzhou, China





The Materials Ageing Institute (MAI) will host a Materials Degradation Course for Engineers in the Nuclear Industry, from November 19th through 22nd, 2019 at SNPI located in Suzhou, Jiangsu, China.

Course Scope

Degradation of reactor components is a significant challenge for the long-term operability and economic viability of the existing fleet of light water reactors (LWR), with a special emphasis on PWR and VVER. The objective of this course is to start from the fundamentals and provide an integrated and up-to-date picture of materials management in the current LWR fleet. Field experience and degradation management approaches will be described and linked to our current understanding of degradation mechanisms of carbon and low alloy steels, stainless steels, nickel-based alloys, concrete and polymers under LWR service conditions.

Selected Topics to Be Covered By Industry Experts

- Design and operation of LWR plants
- LWR environment (water, temperature, radiation, stress)
- Materials used in various components and why, fabrication, welding
- History of corrosion and mechanical degradation in operating plants
- Fundamentals of metallurgy, plant chemistry, corrosion, mechanical damage, irradiation effects and nondestructive testing
- Reactor pressure vessel integrity issues, NDE, degradation, analysis and mitigation
- Reactor pressure vessel internals integrity issues, NDE, degradation, analysis and mitigation
- Steam generator integrity issues, NDE, Degradation analysis and mitigations, repairs and replacements
- Piping and nozzles degradation issues and flow assisted corrosion
- Degradation issues of other systems and components, service water, concrete and polymer materials

Target Audience: The course is suitable to the engineers and researchers who are new to the plant materials degradation issues, and to the managers who do not have a background in nuclear power plant materials. The course will also be suitable to anyone who wants to refresh the knowledge related to materials aging managements.

The course will be conducted in English.



Contact

Registration

Please click the link to register

<https://overcome.key4events.com/register.aspx?e=122>

INSCRIPTION IN CHINA:

If you are in China, please register by clicking the link or scanning the QR code

<https://www.wjx.top/jq/38710116.aspx>



Note: If you encounter problems during the registration, please contact: han.liu@edf.fr

Fees

MAI Members	€ 300
CNEA Members	€ 400
All Others	€ 500
No Refunds	

Venue

The course will be given in SNPI new office building:
1788 Xihuan Road, Gusu District, Suzhou, Jiangsu, China

Note:

Suzhou, about 100 kilometers from Shanghai, is an ancient civilization with a history of more than 2,500 years. Suzhou has always been famous for its beautiful scenery and gardens. It is also known as the “Venice of the orient” because of its waterfront ancient city features. Suzhou Ancient City and Suzhou Garden are both of the world heritage and world intangible cultural heritage. In addition, Suzhou Garden is one of the top ten historical sites in China, and nine of them are listed in the World Cultural Heritage List.





Access by airplane

There is no airport at Suzhou. If you want to take airplane, you can go to Shanghai. If you arrive at Shanghai Hongqiao Airport, you can go to Hongqiao Railway Station to take the high-speed train to Suzhou. If you arrive at Pudong Airport, you can take the Airport Bus Suzhou line to Suzhou.

Access by train

There are two train stations at Suzhou: Suzhou Station and Suzhou North Station. Both stations have high-speed train to Shanghai Hongqiao Airport for about 30 minutes.

From train station to SNPI, taxi is recommended

Hotel

New City Garden Hotel
Address: No.1 Shishan Road, Shishan, Huqiu District, Suzhou, Jiangsu, China

Grand Trustel Aster Suzhou
Address: No. 488 Sanxiang Road, Gusu District, Suzhou, Jiangsu, China

Wangfu Jinke Grand Hotel
Address: No.1969 Binhe Road, Huqiu District, Suzhou, Jiangsu, China



The Materials Ageing Institute is a utility-oriented research center founded by EDF in 2008 and co-financed by EPRI (US), KEPCO (J), CGN (CN), REA (RU), EDF Energy (UK), TEPCO (J), MHI (J), CRIEPI (J), CEA (F) and Framatome (F). The main purpose of this collaborative effort is to bring together scientific skills and research facilities to address ageing of materials used in electric power plants, and particularly in nuclear power plants.

