

MAI Scientific Network



The Scientific Day of MAI-SN

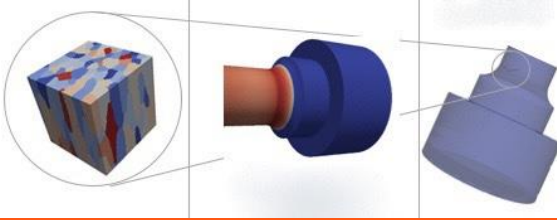
Modelling nuclear component ageing

September 30th 13:30PM

October 1st 12:00AM

MAI, EDF Lab Les Renardières - France





Seminar scope

The Scope of this scientific day is to allow exchange between utilities and academia to discuss the needs and latest developments of materials ageing modelling to enable a continuous improvement in the safety and efficiency of the nuclear power generation as a low carbon energy source.

Research areas of the MAI cover a wide range of materials : stainless steels and alloys (reactor vessel internal structures, primary and secondary circuits), polymer materials (electric cables, coatings and insulator materials) and concrete structures such as reactor containment and spent fuel pools.

Key ageing processes studied are stress-corrosion cracking, thermal and irradiation induced embrittlement, fatigue, generalized corrosion, flow assisted corrosion, fouling and wear.

Modeling these ageing processes and developing prediction tools are key in the safe long term operation of nuclear power plants. This can help reduce maintenance costs, eliminate or extend the intervals of preventive maintenance, identify earlier equipment problems, and extend the life of plant assets.

The Scientific Day will aim at reviewing the most recent developments in ageing modeling and explore the way they could be used by operators. Keynote lectures will be given by internationally recognized academics and industrial experts.

***Target audience :** Utilities, Universities, Laboratories, Vendors and TSO.*

Program

- **September 30th** **13.30 – 17.00**
 - **Session 1 :** **Modelling ageing processes in metallic alloys**
- **October 1st** **9.00 – 13.00**
 - **Session 2 :** **Modelling ageing of concrete structure**
 - **Session 3 :** **Modelling of polymers ageing**
- **Each session includes:**
 - **industrial and academic keynote lectures in plenary session**
 - **a poster session**
- **Enjoy a tour of a unique industrial research facility! (September 30th)**

Language English



Registration

Link

[Click here to register](#)

Administrative contacts

Ms. Chaveli BITSINDOU
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EDF Lab les Renardières
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Venue

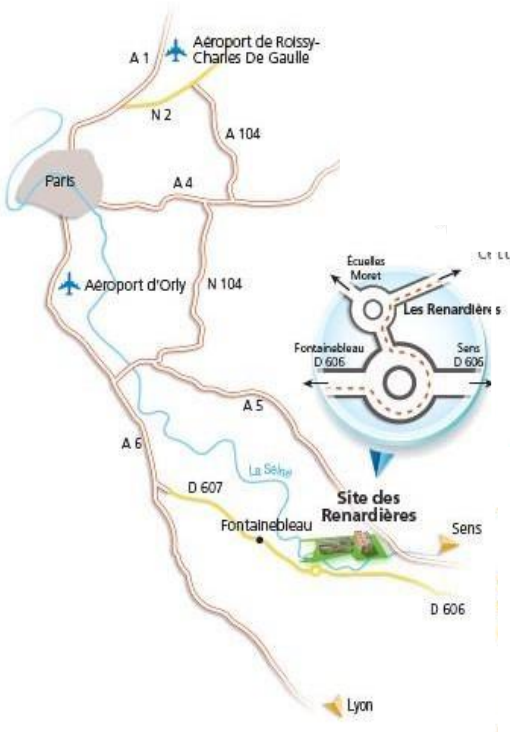
The seminar will be held at the EDF Ecuelles quarters and remotely
EDF Lab Les Renardières – Building 34, Room Amphitheater (ground floor)
77818 Moret-sur-Loing Cedex France.

Fees

Participation is free of charge but registration is compulsory through the link
Buffet lunch and snack at the end of the seminar will be offered.



Access by car



On the A6 motorway, take the Fontainebleau, bypass the town by taking the D607 (N7) up to « Carrefour de l'Obélisque ». Take the D606 (N6) towards Montereau/Sens. Continue on the D606 (N6), for 12km.

At the « Carrefour Saint-Lazare » roundabout, take the 2nd exit onto the D302 towards Euelles.

At the next roundabout, take the 1st exit on the right, towards « Pole d'activités des Renardières » and follow this road for 1km.

Access by train

The Moret-Veneux-Les-Sablons station is accessible from Paris Gare de Lyon.

MAI shuttle bus to les Renardières take « Veneux » exit.

Remote connection provided after registration



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