



Modelling in Nuclear Science and Engineering Seminar 2020

**4/5 November
2020**

**2-day
seminar**

**Virtual
Seminar**

Topics will include

**Advances
in Materials
Modelling**

**Materials
modelling
for ageing
plants**

**Next
Generatio
n Reactor
Modelling**

**Materials
modelling for the
next generation of
nuclear reactors**

**Modelling
Developments
in Accident
Analysis**

**Application of
Modelling in
Risk Analysis**

**Load Pattern
Optimisation,
Multi-objective
Optimisation of
Fuel Assemblies
Assimilation &
Uncertainty**

**End of Plant Life
studies, and use
of multi-physics**

**Fuel
Performance
Modelling**

**Application of
ROM – a growing
area of interest**

**Applications of
Machine Learning
to Plant
Performance**

**Digital
Reactor/Digital
twins**