What Happens to Nuclear Fuel Inside a Reactor?

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TALK ABSTRACT

Nuclear power stations generate electricity in a similar manner to conventional fossil fuel plants but, instead of burning coal/gas, atoms are split (undergo fission) to release energy. Many people are aware that nuclear power plants harness the energy of nuclear fission but few people are aware of the specific details of nuclear fuel and the numerous interesting scientific phenomena that occur to fuel once it is inside a nuclear reactor!

The aim of this talk is to introduce the audience to some of the most interesting aspects of nuclear fuel in an informative and interactive manner. The overview of the talk is given below:

1. What is nuclear fuel?
2. Energy within nuclear fuel
3. Interesting phenomena within nuclear fuel
4. Predicting nuclear fuel behaviour
5. Current research into nuclear fuel

This event is free, and all are welcome. Registration is essential. Please visit:
www.iopconferences.org/iop/1257
Refreshments will be served from 18:00

VENUE

The Centre, Birchwood Park, Warrington
WA3 6YN

www.thecentreatbirchwoodpark.co.uk/location.aspx

Travel Advice:

• Car: An onsite carpark is available.
• Train: Birchwood rail station (cross-country link) is connected to The Centre by a 20-25 min walk. Alternatively Warrington (West Coast main line) is a 20 min taxi ride away.

FURTHER INFORMATION

Please see the group website:
http://www.iop.org/activity/groups/subject/nig/index.html

or contact Alfie O'Neill:
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