



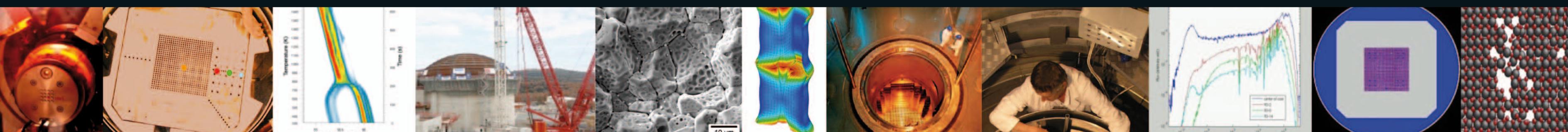
FJOH 2014

Frédéric JOLIOT & Otto HAHN
SUMMER SCHOOL
ON NUCLEAR REACTORS
“Physics, fuels and systems”

NUCLEAR REACTORS BRIDGING THE GAP BETWEEN SCIENCE AND INDUSTRY

► Application deadline
May 16, 2014

Aix-en-Provence France
► August 20 > 29, 2014



LECTURERS

- J. Blomgren (INBEx)
- B. Bonin (CEA)
- K. Smith (MIT)
- P. Bryce (EdF Energy)
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- D. Bernard (CEA)
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- G. Was (University of Michigan)
- P. Efsing (Vattenfall/KTH)
- U. Ilg (ENBW)
- J. Noirot (CEA)
- N. Waeckel (EdF)
- M. Salvatores (Consultant, INL)
- F. Tuomisto (Aalto Univ.)

PROGRAMME OUTLINE

- **Introduction**
 - > Nuclear power plants commercially available today
 - > The life cycle of nuclear energy
- **Light Water Reactor Physics Methods and data**
 - > Lattice Physics, core modelling
 - > Nuclear industry lessons from operating plants, code limitations and practical issues desirable improvements
 - > Demonstrating core performance via experiments, validation, uncertainty assessment, plant data
- **Light Water Reactor Fuels and Structural Materials**
 - > Fundamentals of materials science and radiation damage
 - > Materials degradation in a reactor
 - > R&D on nuclear fuel
- **Group reflection on selected scientific topics**
- **Seminars**
 - > Modern Reactor Physics : Back to the Future
 - > Moving from the world of material science into the world of nuclear technology
- **Technical visits of CEA Cadarache R&D facilities**

- Extra-curricular and social events and an attractive weekend programme will be organized.
- Full registration fees: 1900 euros. Reduced fees: 950 euros for fellowship recipients.

School Directors

- Dr. R. Jacqmin (CEA)
- Prof. R. Stieglitz (KIT)

For information, please contact the FJOH school secretariat at:
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