Course overview
The general objective is to provide participants with an up-to-date basic knowledge on the six concepts selected for the 4th generation of nuclear systems (SFR, LFR, GFR, VHTR, SCWR, MSR).

Who is the course for?
- Professionals, engineers, researchers and students with an interest in a global view of the 4th generation of nuclear reactors.
- Scientists already involved in Gen IV systems activities or planning to work in such areas.

Entry requirements
Basic knowledge on nuclear reactor physics is desirable.

Competences
- Acquire a general view of GIF (Generation IV International Forum) objectives and organization.
- Explain the rationale for the development of a 4th generation of nuclear reactors.
- Describe the main characteristics of each system, and formulate their design, performance and safety characteristics.
- Discuss the technical challenges they are faced with for practical development.

Why take this course?
- Lectures by renowned experts from France and other countries (China, Czech Republic, Italy, Germany).
- Tutorials (How to “design” a fast neutron reactor using simple calculations).
- The course is supported and advertised by GIF www.gen-4.org/gif/jcms/c_82830/conferences-schools

Course
- The course covers the 6 systems selected by GIF (SFR, LFR, GFR, VHTR, SCWR, MSR) and addresses cross-cutting aspects (safety, materials and fuels, energy conversion, nuclear fuel cycle).
- Focus on Gen IV demos and prototypes (ASTRID, ALFRED, ALLEGRO, HTR-PM).

Duration 5 days (30 hours)
Location INSTN/CEA-Saclay, France
Dates November 18-22, 2019
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Registration fees
- Full rate €2,270
- Student €1,590
- ENEN/CEA Member €1,820
Course code 558