Nuclear Reactor Severe Accident Analysis: Applications and Management Guidelines

Hosted by:

Budapest, HUNGARY - April 7-11, 2008

EU-SARNET / NEA Joint Training Short Course on "Nuclear Reactor Severe Accident Analysis: Applications and Management Guidelines"

Course coordinator:
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Organizing committee:
Raj Sehgal (SARNET)
Salih Güntay (NEA/GAMA)
Zoltán Hózer (AEKI) Local organizer
Attila Aszódi (BME NTI)
Zsolt Téchy (VEIKI)
Gérard Cognet (CEA Budapest)
Thierry Albiol (SARNET)
Christophe Journeau (CEA)
Willem van Doesburg (NEA)
Klaus Trambauer (GRS)

Web page: to be soon constructed in http://www.sar-net.org

Venue: Budapest University of Technology and Economics, Institute of Nuclear Techniques (BME NTI), Hungary
Language: English
Fees: The participation fee includes lecture notes (CD-ROM), lunches, coffee breaks and gala dinner.

Limited attendance.
Payments must be sent with registration form to Pascal Piluso (Cheques payable to CEA)

Please fill this questionnaire. It will help us to organise our course better

Your background:
- Student: MSc, Engineer, PhD, Post doc
- University professor: Industry
- Safety regulator: Electrical Utility
- National R&D lab
- Technical Support Organization
- Others: ...........................................

Are you member of a SARNET partner?
- Yes
- No

How long have you been working in the field of severe accidents?
- I'm a newcomer
- 2 - 24 months
- 2 - 5 years
- over 5 years

In which area(s) (several answers possible)
- Safety analyses
- PSA
- Severe Accident Codes
- Modelling
- Experiments
- Reactor design
- Emergency Team
- Other: ...........................................

Area(s) of major interest:

Comments:
The severe accident research network SARNET - in collaboration with the Nuclear Energy Agency (NEA) (www.nea.fr) - is sponsoring a new one-week Short Course entitled “Nuclear Reactor Severe Accident Analysis - Applications and Management Guidelines”. This course is a part of the Excellence Spreading activities of SARNET, which are coordinated by KTH. The SARNET network is co-funded by the EURATOM research program in the 6th Framework Programme of the European Union. The Course will be organised by CEA and hosted by VEIKI, AEKI and BME NTI, the local SARNET organisations, in Budapest from April 7th to 11th, 2008.

This short course is a sequel to the Severe Accident Courses that were sponsored by SARNET and given in January 2006 and March 2007 at Cadarache. The purpose of this course is to describe the phenomenological models that have been incorporated in the codes ASTEC, MELCOR and MAAP, which are employed by the nuclear industry to determine the consequences of postulated severe accidents for the PWR, BWR and CANDU plants. The course will describe applications of the codes to estimate consequences for the various severe accident scenarios and their use to develop severe accident management (SAM) guidelines that a utility company may follow. The course content will include a discussion on the uncertainties in the consequence estimates. It will also include background lectures on water cooled reactor safety, severe accident scenarios and the events leading, respectively, to the early and late failure of containment. Besides, competence and experience acquired from NEA/CSNI activities carried out during the last two decades will be transferred to the participants. The lectures will be given by experts from major Nuclear Institutes and Universities working on the topic (GRS, IRSN, JRC, KTH, FZK, CEA, PSI, AECL, EDF, VTT, VEIKI, Sandia, FAI...). A visit of severe accident facilities (AEKI) and of the training reactor (BME NTI) will be included.

This course will disseminate the knowledge gained on the development and applications of the severe accident codes during the last two decades to engineers and researchers from industry, utilities, regulatory bodies, Technical Support Organizations, R&D laboratories and Universities, as well as students.

It will be open for students (discount fee) and can contribute 3 ECTS (with written work) as an advanced course for Master and PhD students (through the European Nuclear Education Network, ENEN).

A limited number of tuition grants for students may be available for attendants from Central and Eastern European Countries and Ukraine. Application deadline: Feb. 1, 2008.

For more details, contact P. Piluso (pascal.piluso@cea.fr) or visit our website on http://www.sar-net.org

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**Registration form**

**Nuclear Reactor Severe Accident Analysis - Applications and Management Guidelines**

**Budapest, Hungary - April 7-11, 2008**

**NAME (FIRST, LAST):**

**AFFILIATION:**

**DEPARTMENT:**

**ADDRESS:**

**PHONE (including country and area codes):**

**FAX:**

**E-MAIL:**

The participation fee includes lecture notes (CD-ROM), lunches, coffee breaks and gala dinner.

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<thead>
<tr>
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<th>Before February 1, 2008</th>
<th>After February 1, 2008</th>
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<tbody>
<tr>
<td>General</td>
<td>1400 €</td>
<td>1800 €</td>
</tr>
<tr>
<td>Student</td>
<td>700 €</td>
<td>900 €</td>
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Please send the registration fee cheque (payable to CEA) together with registration form to:

Pascal PILUSO - CEA