

#### The ISaR Institute for Safety and Reliability

The ISaR Institute is a scientific organization offering expertise and methods for assessing and optimizing the safety and the reliability of nuclear power plants and other complex systems. Main fields of activity are consulting on nuclear and interdisciplinary safety issues, analytical research related to simulation and probabilistic safety assessment, and training of graduates for nuclear careers. ISaR is located at the campus of the TU München in Garching near Munich.

#### www.isdi.tui

#### The Chair of Nuclear Engineering of TUM

The NTech Chair of the Technische Universität München belongs to the Faculty of Mechanical Engineering located at the Garching Campus. The chair is offering both a Bachelor and a Master program in nuclear engineering. Activities focus on applications of nuclear technology and safety analysis of nuclear systems. Current research points relate to best estimate safety analysis of NPPs and to neutronic and thermal-hydraulic methodologies.

#### www.ntech.mw.tum.de

#### **The ENEN Association**

The European Nuclear Education Network is a non-profit international organisation whose mission is to preserve and further develop higher nuclear education and expertise. Members are universities and organisations involved in the application of nuclear science and ionising radiation with established relations to universities. At present ENEN has 46 members in 18 countries. Most members are European universities providing high level scientific education in nuclear disciplines.

www.enen-assoc.org

# Training Course on Building New Nuclear Power Plants

**Place** Munich, Germany

Date February 16<sup>th</sup> - 18<sup>th</sup>, 2009

#### Who should attend?

The course module is tailored to university graduates in engineering and science preparing for careers at nuclear utilities, vendors, suppliers, regulators, international organisations, expert organisations and consultants. The module is also well suited for young academic professionals in nuclear organisations and for nuclear re-education of engineers and scientists working in other fields.

#### Lecturers

The lectures are given by internationally renowned experts and executives from industry, research institutes and universities.

#### **Registration deadlines**

Early registration: February 2<sup>nd</sup>, 2009 Late registration: February 12<sup>th</sup>, 2009

#### **Registration fees\***

Early registration: 1.500 € Late registration: 1.800 €

\* Fees include VAT, cover lectures and course material.

Public bodies and ENEN members receive a 20% reduction. Grants are available for a limited number of students.

#### Information / registration

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Further details and registration at www.isar.tum.de/courses

#### Venue and Accomodation

The lectures will be given on the premises of the Technical University of Munich.



# **Training Courses**



Building New Nuclear Power Plants

Munich | February 16th - 18th, 2009







### Summary

This course module covers strategies and procedures to build new nuclear capacity. The scope ranges from early preparatory steps in the political context up to the construction phase including the full range of technical, communicational and administrative tasks to be performed.



## Objectives

Participants are expected to achieve a good understanding of

- present day practices of planning, construction and building new nuclear capacity
- the relevant licensing models
- the different decision making processes
- the financial boundary conditions and dispositions
- siting procedures and criteria
- structure and main contents of safety analysis reports and environmental impact assessments
- quality assurance provisions related to new build
- the relevant phases and processes of commissioning.

# Syllabus

- Overview of models and their history
  - preparatory phase up to decision on construction
  - financial provisions
  - siting
  - choice of plant design
  - environmental impact assessment
  - preparation of decision in principle
- After decision on construction
  - construction planning
  - planning for the grid
  - development of a safety analysis report
  - quality assurance
  - planning and organisation of commissioning
- Examples
  - historic and present

