



# Call For Papers

## The IYNC network

IYNC is a network created by the new generation of professionals to:

- develop new approaches to communicate the benefits of nuclear power as part of a balanced energy mix;
- promote peaceful use of nuclear science and technology for the welfare of mankind;
- transfer knowledge from the current generation of leading scientists to the next generation.

The IYNC network has representatives on six continents and continues to seek out topics and activities of particular importance to the future of the nuclear industry. Through their continued involvement with IYNC these individuals and young generation groups share information, ideas, and build lasting professional relationships.

IYNC has held three successful biannual conferences. These have been in Slovakia (2000), South Korea (2002) and Canada (2004). The latest conference in Toronto attracted around 300 attendees from 35 countries.

## About the congress 2006

IYNC 2006 will be held on 18<sup>th</sup>–23<sup>rd</sup> June in Stockholm, Sweden. The Technical Programme of the Congress consists of four scientific tracks with technical presentations, keynote speakers, panel sessions and workshops.

The comprehensive Technical Programme will also include a visit to Olkiluoto, Finland to see the first EPR, European Pressurized Reactor, under construction and a deep geological repository for spent fuel.

There will also be number of networking opportunities. These will introduce the participants to the beauty of the Scandinavian nature and traditions of the Midsummer festival.

## Submission of abstracts

Abstracts are to be prepared using the template available at [www.iync.org/cfp](http://www.iync.org/cfp). Please follow all the instructions within the template, and keep abstracts to one page. Abstracts shall be submitted electronically through the on-line conference paper management and registration system at the IYNC web site: [www.iync.org/cfp](http://www.iync.org/cfp).

The accepted format for full papers is pdf or Word. The deadline for abstract submission is 15 September 2005. All authors are notified about the acceptance of their paper after the review of the abstracts by 15 October 2005.

## Paper deadlines

Abstracts due:	15 September 2005
Authors notified:	15 October 2005
Draft papers due:	15 January 2006
Review due:	15 March 2006
Final papers due:	31 March 2006



Finlands Olkiluoto site, including an artists impression of the OL3 (EPR) unit that is currently under construction. Photo:TVO



## IYNC 2006 Technical Programme

The technical programme at IYNC 2006 consists of four scientific and technical tracks plus one for Young Generation and IYNC activities. The papers submitted to IYNC 2006 will be presented either in the oral sessions or in the poster sessions. All accepted abstracts will be included in the proceedings.

Please address any queries regarding abstracts to the Technical Programme Chair: Kai Salminen, Fortum, Finland  
(email: kai.salminen@fortum.com)

### Track 1: Nuclear Science and Technology

*Description:* Continuous R&D in nuclear science and technology not only helps ensure safe and economical operation of existing nuclear power plants, but also provides for future electric generation capability through the development of new reactor concepts and new applications of nuclear power.

*Topics (examples):* core physics, thermal hydraulics, nuclear safety, materials, innovative reactor systems and designs, GenIV reactors, power upgrade projects, fuel cycle, severe accidents, PSA, radiation protection, etc.

*Track Chair:* W. David Pointer, Argonne National Laboratory, USA  
(email: dpointer@anl.gov)

### Track 2: Nuclear Waste and Decommissioning

*Description:* Nuclear waste management and decommissioning are important aspects of utilization of nuclear science and technology. Several technical options for nuclear waste management are under development and decommissioning projects of first and second generation nuclear facilities are ongoing around the world.

*Topics (examples):* decommissioning of nuclear installations, nuclear waste management, waste conditioning, geological disposal, partitioning, transmutation, biosphere and dispersion analyses, etc.

*Track Chair:* Daniel Westlén, Royal Institute of Technology, Sweden  
(email: daniel@neutron.kth.se)

### Track 3: Non-power Applications of Nuclear

*Description:* Nuclear science and technology encompasses a wide variety of non-power applications. While the potential of nuclear science and technology is utilized in many everyday applications today, advanced ways to exploit nuclear science and technology are studied through R&D. The non-power applications of nuclear science and technology are a rapidly growing segment of the field.

*Topics (examples):* medicine, isotope production, hydrogen and heat production, desalination, propulsion, space applications, accelerator applications, etc.

*Track Chair:* Shannon Bragg-Sitton, National Aeronautics and Space Administration, USA (email: shannon.m.bragg-sitton@nasa.gov)

### Track 4: Nuclear Politics and Economics

*Description:* Nuclear science and technology information is not the easiest of subjects to effectively communicate with policy makers and the general public. This requires clear and consistent communication strategies within the field. Recent studies have examined the entire life cycle cost of nuclear electricity as well as its competitiveness in deregulated energy markets, bringing these ideas to the forefront of communications with these audiences.

*Topics (examples):* acceptance of nuclear power, public relations, knowledge transfer, nuclear liability, nuclear in deregulated markets, nuclear phase-out decisions, new plant projects, non-proliferation, etc.

*Track Chair:* Hans Korteweg, FORATOM, Belgium  
(email: hans.korteweg@foratom.org)

### Young Generation and IYNC Activities

*Description:* Young Generation and IYNC members are the future of the worldwide nuclear science and technology family. This session provides a forum for the discussion of national and regional activities.

*Track Chair:* Kai Salminen, Fortum, Finland  
(email: kai.salminen@fortum.com)

**Welcome to Scandinavia to experience IYNC 2006  
and to celebrate the vitality of the nuclear youth!**