



INTERNATIONAL YOUTH NUCLEAR CONGRESS 2014 - BURGOS, SPAIN – 6-12 JULY 2014

Up to the Challenge!

CALL FOR TECHNICAL TRACK MANAGERS

IYNC is looking for knowledgeable, motivated and enthusiastic Technical Track Managers who, in close cooperation with each other and the Technical Track (TT) Chair, will raise the technical and scientific profile of the conference to its highest!

We aim at having a truly international team. In order to fulfill this goal, increase the networking effect and optimizing the logistical needs, we would like to have an international chair and a local/European chair for each track. **Ready to take a step forward?**

Your qualifications and assigned tasks

- Have a significant professional or academical background in a field related to the track you are applying for.
- Promote the submittal of papers for your track among colleagues and other members of your network.
- Manage the submittal, review and acceptance of summaries, working as a team with the TT Chair and additional reviewers if needed.
- Shape the Track layout during the conference, help look for additional Session chairs, and support in preparing the Proceedings of the Conference.
- Ideally, attend the conference in person, or alternatively find an adequate candidate to do it in your name.
- Work together with the TT Chair to submit selected papers to a peer-reviewed journal.

Your benefits

- Gain insight, stay up-to-date and extend your knowledge within your field and other related ones.
- Increase your professional network, getting in contact with persons working both within your field and others of your interest.
- Enjoy teamwork within an international group.
- Gain experience in the inner workings of the organization of an international conference.

Background information

The Technical Track is part of the general Technical Program of the Conference, which also includes Workshops and Plenary sessions.

Conference attendees will submit summaries, which after acceptance will be presented as either poster or oral presentation during the Conference.

The TT is structured in 11 paths, which are shown in the following pages.

How to proceed?

Interested? Then we would like to hear from you! Please send us your current CV, together with the Application Form included with this Information Package, **before April 30th 2013**, to technicaltrack@iync.org. For any questions, please feel free to contact the Chairing team: alberto.foronda-delgado@iync.org or denis.janin@iync.org.

We look forward to seeing you in Burgos 2014!

IYNC 2014 Preliminary Technical Tracks

1.- Plant Operation and Maintenance, Design Modifications, Radiation Protection

Submissions for this track may include, but are not limited to:

- Operation strategies
- Refuelling outage management
- Significant operating experiences
- Power uprates and refurbishment/modernization projects
- Maintenance programs and Ageing management
- Human Factors Engineering and Man-Machine Interface
- Advanced dosimetry, dose optimization, ALARA-related improvement projects
- Radiation monitoring and detection
- Procurement engineering

2.- New Reactors (Gen 3+ and SMRs)

Submissions for this track may include, but are not limited to:

- Reactor and plant design
- Site selection and Project development
- Construction experience
- Licensing and regulatory issues

3.- Reactor Physics and Materials (including Advanced Reactors, e.g. Gen 4)

This track is divided into three sub-tracks. Submissions may include, but are not limited to:

3.1 Thermal-hydraulics:

- Heat transfer
- Hydraulics
- Computational Fluid Dynamics
- Coolants
- Aerosol transport

3.2 Reactor Physics and Neutronics

- Analysis Methods and Codes
- Transport & Monte Carlo methods
- Nuclear data
- Benchmark exercises
- Mathematics and Computation
- Criticality calculations

3.3 Materials

- Materials science
- Nuclear fuels and materials
- Modelling and simulation of nuclear fuels and materials
- Irradiation damage

4.- Nuclear Safety, PRA, Severe Accidents and Fukushima-related topics

Submissions for this track may include, but are not limited to:

- Transient plant analysis
- Severe Accident codes and simulations
- Probabilistic Risk Assessment (including Fire, Flood, External Events)
- Risk Assessment
- Criticality Safety
- Public health and environmental effects
- Fukushima-related research, action plans, emergency planning and plant modifications

5.- Fuel Cycle front-end and non-proliferation

Submissions for this track may include, but are not limited to:

- Exploration and mining
- Conversion, enrichment, fuel fabrication
- Chemistry
- Safeguards and non-proliferation

6.- Decommissioning, Waste Management and Fuel Cycle back-end

Submissions for this track may include, but are not limited to:

- Experiences and techniques in decommissioning
- Low and intermediate waste management
- Waste storage and disposal facilities
- Reprocessing technologies
- High-level waste management strategies, intermediate storage and deep repositories

7.- Fusion

Submissions for this track may include, but are not limited to:

- Inertial and magnetic fusion systems
- Fusion science and technology
- Plasma physics

8.- Training, HR development, Organizational Factors

Submissions for this track may include, but are not limited to:

- Education and training programs
- Workforce development
- Knowledge management, succession planning
- Safety Culture and Human Factors
- Organizational effectiveness and diagnostic models

9.- Nuclear Politics and Economics, Communication, Social Acceptance

Submissions for this track may include, but are not limited to:

- Energy demand and trends
- Energy policy
- Plant economics
- Societal issues, risk perception and acceptance
- Communication during normal operation and emergencies

10.- Nuclear Medicine and Non-Electric Power Applications

Submissions for this track may include, but are not limited to:

- Radiation therapy
- Nuclear medicine technology
- Cogeneration and Hydrogen production
- Space power and propulsion
- Accelerators
- Biology and agricultural applications

11.- YGN Best Practices

Submissions for this track may include, but are not limited to:

- National Young Generation projects
- Regional Young Generation projects

Please note that Country Reports will be presented during a dedicated Plenary Session and should not be submitted here.