



## ENC 2016

The European Forum to discuss Nuclear Science & Technology Issues, Opportunities & Challenges

**9 - 13 October 2016, Warsaw, Poland**

### Call for Papers

ENC 2016 provides a platform for the nuclear science community to share their experience and to learn about the latest developments going on in nuclear research and their practical applications. It will furthermore exploit synergy among scientists, industry representatives, policy-makers and citizens on wider societal issues that impact upon how the nuclear science community carries out its work.

ENS and the ENC 2016 Programme Committee are now calling for abstracts in the following areas:

- **Nuclear science applications for industry and society**  
Silicon doping; neutron activation analysis including PGAA and delayed neutron detection; isotopes production and supply; water desalination; heat cogeneration; sterilisation; hydrogen generation; non-destructive testing including neutron radiography and tomography; nuclear in space; instrumentation; geochronology, gem stone coloration;...
- **Life science applications**  
Radiation protection; low-dose research; environmental studies; diagnostics and therapeutic applications; development of new radiopharmaceuticals; instrumentation; ...
- **Advanced reactor technologies**  
Innovative technologies for Generation III+ reactors; Generation IV reactors; small and modular reactors; innovative reactor concepts, including the Thorium cycle; research reactor and testing facilities; fusion reactors; nuclear data; space propulsion reactors; naval civil reactors; floating nuclear plants; ...
- **Current reactor technologies and new build**  
Creating the framework for newcomers; localisation; stakeholder involvement; socio-economic impact; development of competences, development of a safety culture; licencing; regulation and supervision; regulator recruitment in an expanding industry; innovative construction and engineering; innovations in the supply chain or construction engineering; training methods and experiments for new coming countries; funding issues; managing budgets and planning; strategic export control;...
- **Plant operations**  
Operation and maintenance; operation support systems; control room design review; human and organisational factors; instrumentation and control; plant life management; equipment and component obsolescence; material technology and testing; fuel surveillance; meeting grid requirements; lessons learned; plant software simulators; reactor physics software simulators; long term operation; ...

# ENC 2016

EUROPEAN NUCLEAR CONFERENCE



- **Nuclear Fuel**

Front end; fuel materials; in core management and fuel behaviour; management of fuel leaking; improved fuel performance; used fuel management; used fuel inspection; long term resource management; uranium and plutonium recycling; partitioning and transmutation; transport of fuel; thorium fuel;...

- **Waste management, dismantling and decommissioning**

Waste management; interim storage; waste segregation, exemptions and recycling; surface and geological disposal facilities; material – host rock interactions; decommissioning; decontamination; dismantling; rehabilitation; regulations; socio-economic impact;...

- **Safety and Security**

Safety management; continuous improvement of safety culture; cyber security; implementation of updated international safety standards; review of national regulatory requirements on safety and of licensing activities; design review and upgrades including associated facilities (spent fuel storage facilities); safety analysis methods and approaches; implementation of updated international security recommendations; review of national security regulatory requirements; security management; review of emergency and contingency plans; interface security; threat assessment and design basis threat; instrumentation; managing severe accidents beyond design conditions; impact of European stress tests; ...

- **Education, training and knowledge management**

Initiatives in education, training and knowledge management; education & training facilities; knowledge transfer; new skills requirements; human capital development; human performance and safety culture; non-destructive testing: personnel qualification and certification; training results: evaluation methodologies; international collaboration; recruitment and labour market issues, e-learning; training simulators; ...

- **Public engagement for nuclear**

Public information; including communicating on nuclear events, nuclear and the societal debates, including and at international fora, nuclear and social media, public perception, stakeholder involvement, economical aspects of nuclear, including CO<sub>2</sub>; nuclear liability and insurance; countries' perspectives on nuclear energy policy; international initiatives and projects,...

**Upload your abstracts before 4 April 2016**

on [www.enc2016.org](http://www.enc2016.org)

or contact [enc2016@euronuclear.org](mailto:enc2016@euronuclear.org) for further information

**Important dates:**

Deadline for abstract submission: **4 April 2016**

Notification of authors: **30. April 2016**

Deadline for submission of Full Papers requesting a peer review: **30 June 2016**

Peer review of Full Papers concluded and author notification: **31 August 2016**

Deadline for submission of Full Papers and Extended Abstracts: **15 September 2016**

Deadline for submission of PowerPoint presentations: **1 October 2016**

ENC 2016: **9 – 13 October 2016**