

INTERNATIONAL YOUTH NUCLEAR CONGRESS

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY



WWW.IYNC.ORG

Melissa Crawford
IYNC President

**23rd Women in Nuclear Annual
Conference: Women in Nuclear Meet
Atoms for Peace**

**Vienna, Austria
24 – 28 August 2015**



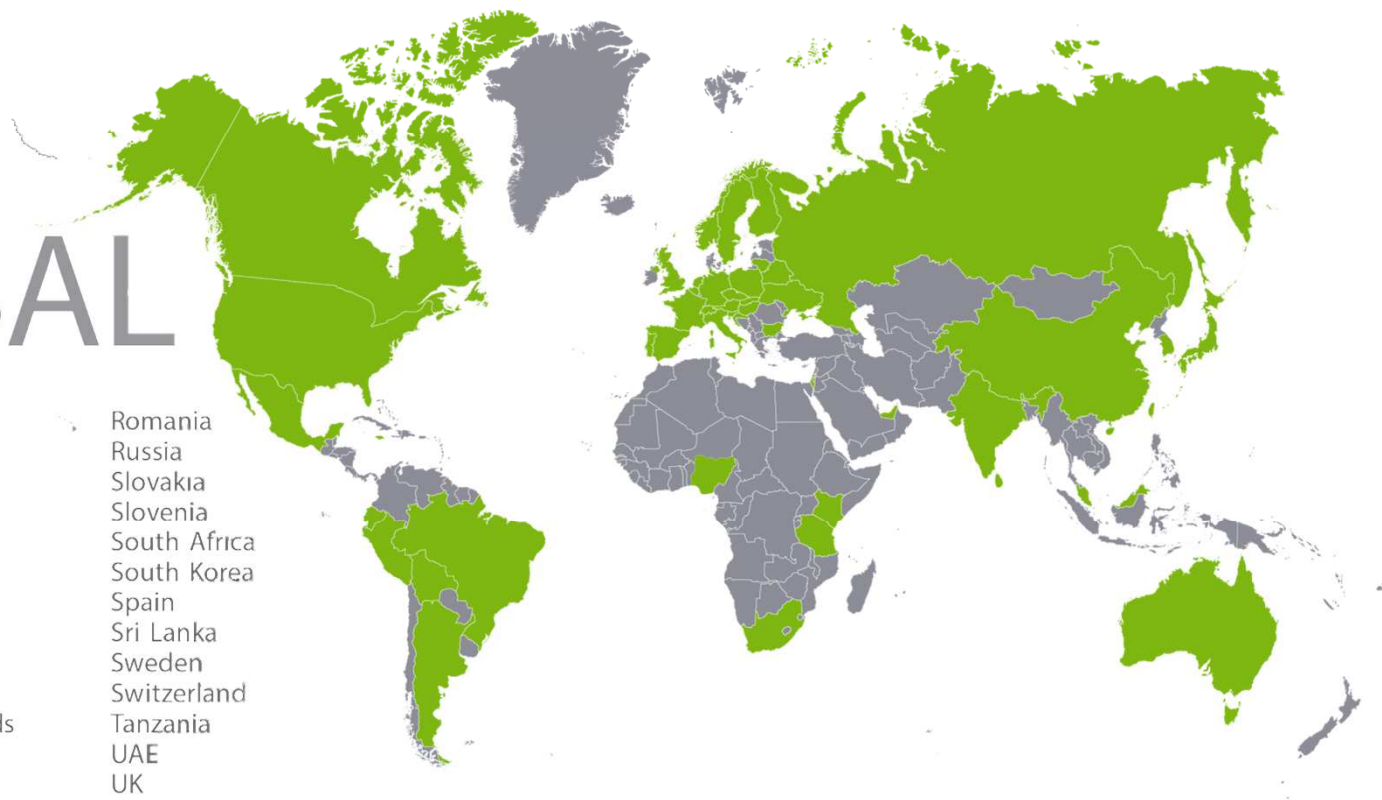
Safeguards and Nonproliferation - Perspectives from the Young Generation

IYNC GLOBAL

Argentina
Australia
Austria
Belarus
Belgium
Bolivia
Brazil
Bulgaria
Canada
China
Croatia
Czech Republic
Ecuador
Finland
France
Germany

Hungary
India
Israel
Italy
Jamaica
Japan
Kenya
Lithuania
Malaysia
Mexico
Netherlands
Nigeria
Norway
Peru
Poland
Portugal

Romania
Russia
Slovakia
Slovenia
South Africa
South Korea
Spain
Sri Lanka
Sweden
Switzerland
Tanzania
UAE
UK
Ukraine
USA



IYNC

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY

YOUTH NUCLEAR FUTURE



2004 Toronto, Canada



2006, Stockholm & Olkiluoto



2000 in Bratislava, Slovakia

2012 Charlotte, USA



2014 Burgos, Spain



2008 Interlaken,
Switzerland



2002 Daejeong,
South Korea



2010 Capetown, South Africa



2018 ??
Intent to Bid Deadline
January 2016

2016 Hangzhou, China



IYNC

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY

YOUTH NUCLEAR FUTURE

Multilateral Nuclear Approaches (MNA)

”

"We should ... consider multinational approaches to the management and disposal of spent fuel and radioactive waste. Over 50 countries currently have spent fuel stored in temporary locations, awaiting reprocessing or disposal. Not all countries have the appropriate geological conditions for such disposal - and, for many countries with small nuclear programs, the financial and human resources required for the construction and operation of a geological disposal facility are daunting. "



Dr Mohamed ElBaradei,
Director-General of the UN's International Atomic
Energy Agency (IAEA), November 2003

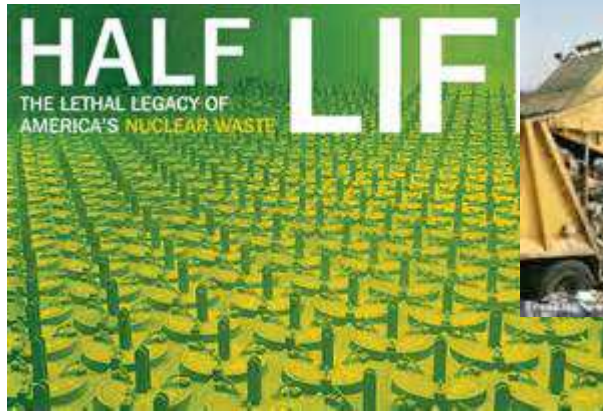


IYNC

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY

YOUTH NUCLEAR FUTURE

Nuclear Waste is SEXY!



IYNC

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY

YOUTH NUCLEAR FUTURE

Recent MNA Studies

1. **PANGEA** – (1990's) Australia, southern Africa, Argentina and western China
2. **ARIUS - ERDO** – Association for Regional and International Underground Storage (CH), European Repository Development Organisation
3. **SAPIERR** – (2003-2009) Support Action, Pilot Initiative for European Regional Repositories



Challenges to the MNA:

1) Political Legislation:

- Import/Export laws on (foreign) nuclear materials
- National transportation bans
- Wartime concerns

2) Non Proliferation Concerns

- Assurance of disposal and not reprocessing

3) Transport

- Nuclear material transportation bans
- Minimizing transport



IYNC

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY

YOUTH NUCLEAR FUTURE

IYNC2016, Hangzhou, CHINA July 24-30 2016

IYNC2016 will be held in Hangzhou, China and will bring together more than 700 young and senior professionals, students and academia. IYNC2016 will feature plenary & panel sessions, interactive workshops, technical tracks, a large variety of technical tours and networking activities.



NUCLEAR POWERING OUR LIFE!

12 Technical tracks

1. NPP Operation and Maintenance, Design Modification
2. Advanced Reactors Design (including Gen IV)
3. Reactor Physics and Neutronics
4. Thermal Hydraulics
5. Nuclear Fuel and Materials
6. Nuclear Safety, Security, Safeguards (including non-proliferation) and Radiation Protection
7. Nuclear Fuel Cycle, Waste Management and Decommissioning
8. Fusion
9. Education, Human Resources Development and Knowledge Management
10. Politics, Economics, and Societal issues
11. Applications of Nuclear Technology in Non-power Sectors
12. YGN best practices

<http://www.iync.org/iync2016>



IYNC

THE GLOBAL NETWORK OF FUTURE LEADERS
IN NUCLEAR SCIENCE AND TECHNOLOGY

YOUTH NUCLEAR FUTURE