

Introduction to Workshop

“Filling the gap: Training Young Generation”

FR17 International Conference: Next Generation Nuclear Systems for Sustainable Development
Yekaterinburg, Russian Federation, June 29th 2017



Denis JANIN
President

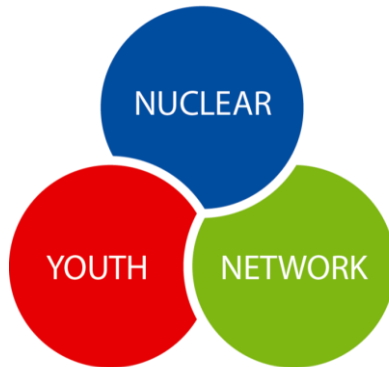
International Youth Nuclear Congress

IYNC in a Nutshell

The mission

IYNC (International Youth Nuclear Congress) is the global network of a **new generation** of nuclear professionals to:

- Communicate the **benefits of nuclear** science and applications
- Promote the **peaceful use** of nuclear power
- Provide a platform for **networking**
- Facilitate **knowledge transfer** between generations and across boundaries



The structure

IYNC is a **non-profit organization** run by:

- 11 Officers
 - Board of Directors
 - 49 National Representatives (e.g. YGN)
 - 20 Members at Large
 - Dedicated committees and team for IYNC2018 (30+)
- more than 80 **volunteers**

The activities

- Biannual Congress (IYNC2018)
- Grants Committee
- YGN Startup & Support
- Bulletin, Newsletter – sign up www.iync.org
- Innovation4Nuclear (I4N)
- Nuclear4Climate
- Annual Board of Directors

IYNC Congresses



- **Where?** Bariloche, Argentina
- **When?** 11-17 March 2018
- **Who?**
Students, young and senior nuclear professionals
from all around the world, ~600 participants
- **What?**
Technical programme, technical tour, networking,
cultural tour
- **Theme**
Challenge the Present Empower the Future
- **Jointly organized** with 26th WiN Global Annual
Conference



26th
WiN



Challenge
the present,
empower
the future.

13 technical tracks

NPPs Operation, Maintenance and Design Modification.

Advanced Nuclear Systems.

Neutronics, Reactor Physics and Core Criticality.

Thermal Hydraulics.

Nuclear Fuel Science.

Materials for Nuclear Industry.

Nuclear Safety, Security and Radiation Protection.

Nuclear Fuel Cycle, Waste Management and Decommissioning.

Fusion Energy.

Human Resources, Communication and Knowledge Management.

Nuclear Policy, Economics and Social Aspects.

YGN Best Practices.

Nuclear Technology in Medicine, Biology and Non-power Sectors.

1 keynote session "Challenge the present, Empower the future".

Plenary sessions: *"CLIMATE CHANGE: LOOKING FORWARD"*, *"NEW TECHNOLOGIES, NEW BUILD AND MAJOR REFURBISHMENT"*, *"RADIOACTIVE WASTE AND DECOMMISSIONING: YESTERDAY'S LEGACY, TOMORROW'S OPPORTUNITY"*.

Panels with
key industry
leaders

Interactive
workshop
sessions

Mentoring
program

1st Call for Summaries open until July, 15th
Visit www.iyng.org

I4N – Innovation for Nuclear

Why?

- To propose and reward innovative ideas focused on nuclear technologies for a **sustainable development**
- To support young energy in **thinking innovative solutions**



What?

- **Support National/Regional innovation contest** in nuclear science and applications
- **International contest:** I4N 1st edition of the final will be held @IYNC2018, Bariloche, Argentina
- Up to 5 winners will awarded a travel grant to IYNC2018, where they will challenge their ideas in front of an international jury of experts.

In Collaboration with



American Nuclear Society
Student Conference 2017



In discussion



IYNC is pleased to announce

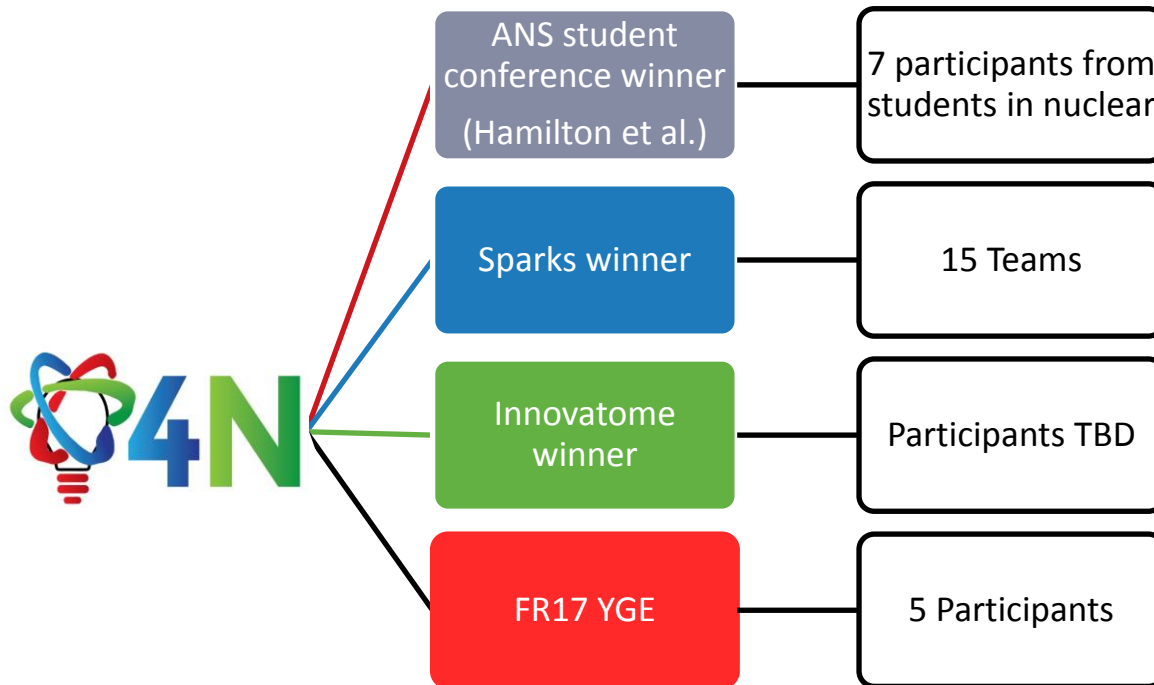


4N

Innovation for Nuclear



IAEA FR₁₇ YGE I₄N Winner



American Nuclear Society
Student Conference 2017



Be bright, ignite your career!



IAEA Young Generation Event (YGE) - FR17

YGE I₄N winner:
Mr. Kristof Gladinez
Congratulations!

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International Youth Nuclear Congress

YGN (Young Generation Network)

- What is a YGN?
 - A group of young professionals and students interested in nuclear science and technology
- Benefits:
 - Knowledge transfer
 - Train the future international leaders
 - Networking
 - Attracts, develops and retains young professionals



YGNs supports Organizations to Attract, Develop and Retain Talents in Nuclear

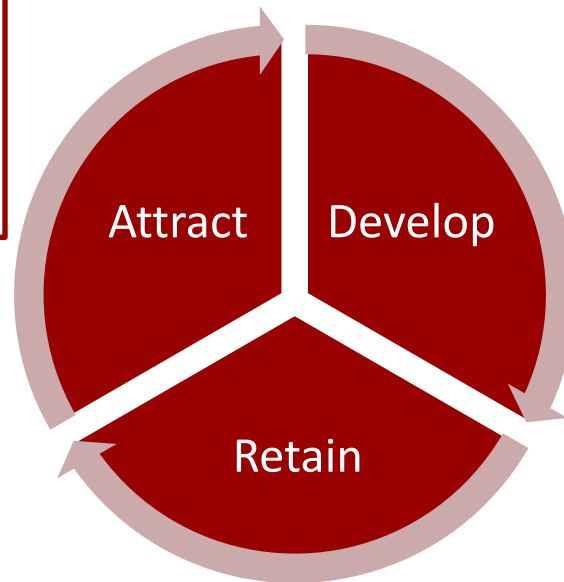
Attracting

- Communicate: Highlight the role & opportunities in nuclear science and applications
- Analyze: anticipate needs and expectations
- Hire: find the best candidates



Developing

- Knowledge transfer opportunities
- Technical training
- Leadership training
- Networking opportunities
- Experience diversity



Retaining

- Inspire talents
- Volunteer experience
- Reward

YGNs offer a unique opportunity for organizations to attract, develop and retain talents in nuclear science and applications



Understanding the Young Generation

The Theory

- Generations:
 - Y (whY?)
 - Z (Zapping)
- Unique profile
- Trends:
 - Digitalisation
 - Data economy
 - 3D printing
 - Start-up economy
 - Open communication
 - ...
- Organizations must adapt

Leslie Dewan
Transatomic Power CEO



“Mothers for Nuclear”
Chicago, October 24th 2016



The energy for our age

02 NOVEMBER 2016 - 20:58 PM by GEDPALELEWE SANTSWERE



Article on “Business Day”
by Mr. G. Santswere

02 November 2016
South-Africa

Communication on nuclear matters!



How to start up a YGN

Step 1:

*Figure out which type of YGN will you have: **Independent Entity vs Sub-set of a Professional Society***

Step 2:

Develop your YGN's Organizational Structure and By-Laws:

- Mission statement, goals of activities
- Rules of being an “officer”, length of the term

Step 3:

Come up with a business model plan (funding):

- Identify potential organizations from industry, academia and government that can help.
- IYNC link “Grants” > “National Network Start-up Grant” for details on how IYNC can help.
- Existing YGN to serve as a mentor and exchange lessons learned and best practices

❖ **IYNC YGN Liaison Chair can assist you with this**

(Nicholle, nicholle.turnipseed@scana.com)

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Grant programme

- **Purpose:** To encourage growth of IYNC Network nationally and internationally
- **Main Criteria, the project must:**
 - contribute to achieving the IYNC Network goals & mission statement
 - increase number of members in one or more local nuclear YG networks during its lifetime
 - last 1 year maximum
- **Measurable Criteria of Project success:** Number of new members of the local YG network(s)
- **Grant types:** Regional Event, National Network Start-up, National Project, International Project, Travel

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