

IYNC2024 Preliminary Programme

Day 1

Sunday, 29 September 2024

- AM IYNC Board of Director's Meeting
- PM IYNC Games - The Louvre Abu Dhabi

Day 2

Monday, 30 September 2024

- AM **Welcome Remarks**
Keynote speakers
- Break**
- Plenary 1: Nuclear Science and Technology's Role in Addressing Climate Change**
Interactive discussion
- Lunch**
- PM **Plenary 2: Sustainability within the Nuclear Fuel Cycle**
Interactive discussion
- Break**
- Plenary 3: Innovations Beyond Nuclear Power Generation**
Interactive discussion
- Adjourn**
Followed by evening reception

Day 3

Tuesday, 1 October 2024

- AM **Plenary 4: Towards Sustainable Nuclear Communities**
Interactive discussion
- Break**
- Technical Tracks**
10 technical tracks, focused on young professional paper presentations, will be held in parallel sessions:
 - Track 1: Nuclear Power Plants - Design, Operation, Maintenance and Digitalization
 - Track 2: Advanced Reactors, SMRs and Fusion Technologies
 - Track 3: Nuclear Physics, Neutronics and Reactor Physics
 - Track 4: Thermal Hydraulics
 - Track 5: Nuclear and Structural Materials
 - Track 6: Nuclear Safety, Security, Safeguards and Radiation Protection
 - Track 7: Nuclear Fuel Cycle, Waste Management and Decommissioning
 - Track 8: Policy, Economic and Social Aspects of Nuclear Technology Deployment
 - Track 9: Communication, Knowledge Management and YGN Best Practices
 - Track 10: Non-Power Nuclear Applications
- Lunch**
- PM **Parallel tracks with breaks held accordingly**
- Workshops**
Interactive workshops focused on soft and technical skill development
 - Mastering Communication: Crafting Compelling Messages for Diverse Audiences
 - InnoGames: Igniting Innovation through Interactive Workshops
 - Atom's Journey: Exploring Nuclear Energy Through Play
 - Strategic Energy Planning for Net-Zero: Harnessing IAEA Tools for Tailored Solutions
 - Global Pathways to Nuclear Energy: Crafting Regional Roadmaps
- Panel 1: Global Perspectives: Nuclear Advocacy and Criticism Post-COP28**
Interactive discussion
- Mentoring**
Formal mentorship program
- Country, Regional and Observer Reports**
Young Generation Networks and observers will present best practices and lessons learned
- Adjourn**
Followed by visit to Sheikh Zayed Grand Mosque+B29:B38

Day 4

Wednesday, 2 October 2024

- AM **Plenary 5: Emerging Nuclear Markets**
Interactive discussion
- Break**
- Technical Tracks**
10 technical tracks, focused on young professional paper presentations, will be held in parallel sessions:
 - Track 1: Nuclear Power Plants - Design, Operation, Maintenance and Digitalization
 - Track 2: Advanced Reactors, SMRs and Fusion Technologies
 - Track 3: Nuclear Physics, Neutronics and Reactor Physics
 - Track 4: Thermal Hydraulics
 - Track 5: Nuclear and Structural Materials
 - Track 6: Nuclear Safety, Security, Safeguards and Radiation Protection
 - Track 7: Nuclear Fuel Cycle, Waste Management and Decommissioning
 - Track 8: Policy, Economic and Social Aspects of Nuclear Technology Deployment
 - Track 9: Communication, Knowledge Management and YGN Best Practices
 - Track 10: Non-Power Nuclear Applications

Lunch

PM Parallel tracks with breaks held accordingly

Workshops

- Interactive workshops focused on soft and technical skill development
- InnoGames: Igniting Innovation through Interactive Workshops
 - Next-Gen Nuclear: Innovating with Advanced Coolants
 - AI Revolution in Nuclear: Developing Chatbots for Enhanced Efficiency
 - Enhancing Safety in Nuclear Power Plants: A Deep Dive into Reactor Shop Safety Systems
 - Strategic Energy Planning for Net-Zero: Harnessing IAEA Tools for Tailored Solutions

Panel 2: Fusion Forum: Bridging Communities for Climate Action

Interactive discussion

Panel 3: Diversity Drives Innovation: Building a Thriving Industry

Interactive discussion

Mentoring

Informal speed-mentorship program

Adjourn

Followed by networking reception

Day 5

Thursday, 3 October 2024

AM

Plenary 6: Financing Good Projects

Interactive discussion

Break

Parallel tracks

Workshops

- Interactive workshops focused on soft and technical skill development
- Synergy Workshop: Crafting Pathways for Integration
 - Nuclear Energy in Tomorrow's Energy Ecosystem
 - NuclearFresk

Panel 4: Innovating to Scale: Empowering Nuclear Entrepreneurs

Interactive discussion

Panel 5: Connecting Generations: Empowering Youth in Nuclear Networks

Interactive discussion

Lunch

PM

Parallel tracks with breaks held accordingly

Workshops

- Interactive workshops focused on soft and technical skill development
- Mastering Communication: Crafting Compelling Messages for Diverse Audiences
 - Mastering 3S (Safety, Security & Safeguards) Integration in Nuclear Facility Design
 - Deciphering Safety Culture: Differentiating Climate from Culture
 - Navigating Climate Diplomacy: UNFCCC Simulation Workshop

Panel 4: Compact Power: Advancing 3S in Small Modular Reactors and Advanced Nuclear Technologies

Interactive discussion

Global Innovation for Nuclear (I4N) Competition

Champions of regional I4N competitions will vie for the coveted global prize

Adjourn

Followed by closing reception

Day 6

Friday, 4 October 2024

AM

Special Session: Youth Powering the Future

Interactive discussion

Awards Ceremony & Announcements

Award distribution and announcement of IYNC2026 venue and 2024-2026 officers

Closing Remarks

Keynote speakers

Adjourn

Conference closing

PM

Optional Technical Tours

Medical and research centers

Day 7

Saturday, 5 October 2024

AM/PM

Optional Technical Tours

Barakah Nuclear Power Plant