



GIF - IAEA Cooperation

49th GIF PG Meeting - Virtual 27 May 2020

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- Work From Home since 16 March 2020
- Gradual return to office from 15 May until 30 June
- Meetings originally planned for March June 2020 have been cancelled, postponed or partially implemented virtually.
- Rescheduling of events is on-going.

Technical Meetings (Oct 2019 – May 2020)



Meeting (Scientific Secretary)	Date and Venue
Joint ICTP-IAEA Workshop on the Physics and Technology of Innovative High Temperature Nuclear Energy Systems (Frederik Reitsma)	14-18 Oct 2019 Trieste, Italy
Technical Meeting on Structural Materials for Heavy Liquid Metal Cooled Fast Reactors (Vladimir Kriventsev)	15-17 Oct 2019 Vienna
Second Research Coordination Meeting of the CRP on Neutronics Benchmark of CEFR Start-Up Tests (Vladimir Kriventsev)	28 Oct - 1 Nov 2019 Beijing, China
Technical Meeting on Safety Assessment of SMRs (Palmiro Villalibre)	4-8 Nov 2019 Vienna
Technical Working Group on Gas Cooled Reactors (Frederik Reitsma)	11-13 Nov 2019 Vienna





Meeting (Scientific Secretary)	Date and Venue
Technical Meeting on the Competitiveness and Early Deployment of SMRs and HTGRs (Frederik Reitsma)	13-15 Nov 2019 Vienna
Technical Meeting on the Design, Experimental Validation and Operation of SMRs (Frederik Reitsma)	18-22 Nov 2019 Islamabad, Pakistan
Joint IAEA-GIF Technical Meeting on the Safety of HTGRs (Frederik Reitsma)	9-11 Dec 2019 Vienna
Fourth Research Coordination Meeting on Radioactive Release from the PFBR under Severe Accident Conditions (Vladimir Kriventsev)	10-13 Feb 2020 Vienna
Technical Meeting on the Status, Design Features, Technology Challenges and Deployment Models of Microreactors (Frederik Reitsma)	20-23 Jul 2020 Vienna (TBC)



Meeting (Scientific Secretary)	Date and Venue
Second Research Coordination Meeting on Benchmark Analysis of FFTF Loss of Flow without scram Test (Vladimir Kriventsev)	14-17 April 28 Sep – 1 Oct 2020 Vienna
Regional Workshop on Advances in the Modelling and Simulation of Thermal Hydraulics in LMFR (Vladimir Kriventsev)	6-10 April 30 Nov – 4 Dec 2020 New Delhi (TBC)
53rd Meeting of the Technical Working Group on Fast Reactors (Vladimir Kriventsev)	11-14 May 17-20 Nov 2020 Vienna
Third Research Coordination Meeting on Development of Approaches, Methodologies and Criteria for Determining the Technical Basis for Emergency Planning Zone for SMR Deployment (Frederik Reitsma)	26-29 May 3-6 August 2020 Vienna



Meeting (Scientific Secretary)	Date and Venue
Consultancy on Trial Implementation and Review of the E-Learning Course on Scenario Analysis and Decision Support for Development of Nuclear Energy Systems with Enhanced Sustainability (Vladimir Kuznetzov)	7-11 October 2019 Mexico City
Consultants' Meeting on the INPRO Collaborative Project "Waste from Innovative Types of Reactors and Fuel Cycles" (WIRAF) (Hussam Khartabil)	7-11 October 2019 Vienna
28th INPRO Steering Committee Meeting (Brian Boyer)	28-30 October 2019 Vienna



Meeting (Scientific Secretary)	Date and Venue
Consultants' Meeting on the INPRO Case Study for the Deployment of a Factory Fuelled Small Modular Nuclear Reactor (SMR) (Alexey Grigoriev)	4-8 November 2019 Vienna
IAEA INPRO School on Methodology, Tools and Analysis for Enhanced Nuclear Energy Sustainability (Maxim Gladyshev)	12-21 Nov 2019 Bangkok 9-19 Nov 2020 Bangkok
Consultants' meeting on trial implementation and review of the basic course on Scenario Analysis and Decision Support for Development of Nuclear Energy Systems with Enhanced Sustainability (Vladimir Kuznetsov)	2-6 Dec 2019 Obninsk, Russia



Meeting (Scientific Secretary)	Date and Venue
Technical Meeting on the INPRO Collaborative Project "Comparative Evaluation of Nuclear Energy System Options" (Vladimir Kuznetsov)	18-21 Feb 2020 Vienna
18 th INPRO Dialogue Forum on Partnerships for Nuclear Development and Deployment (Bongsoo Kim)	27-29 Apr 2020 9-11 Dec 2020 Vienna

Publications - published



- NES NP-T-1.16: Passive Shutdown Systems for Fast Neutron Reactors
- NES NP-T-1.17: Guidance on Nuclear Energy Cogeneration
- TECDOC-1869: Status of Research and Technology Development for Supercritical Water Cooled Reactors
- TECDOC-1900: Understanding and Prediction of Thermohydraulic Phenomena Relevant to SCWR
- TECDOC-1885: Nuclear-Renewable Hybrid Energy Systems for Decarbonized Energy Production and Cogeneration
- TECDOC-1914 Case Study on Assessment of Radiological Environmental Impact from Potential Exposure
- TECDOC-1901 INPRO Methodology for Sustainability Assessment of Nuclear Energy Systems: Waste Management
- TECDOC-1902 INPRO Methodology for Sustainability Assessment of Nuclear Energy Systems: Safety of Nuclear Reactors
- TECDOC-1903 INPRO Methodology for Sustainability Assessment of Nuclear Energy Systems: Safety of Nuclear Fuel Cycle Facilities

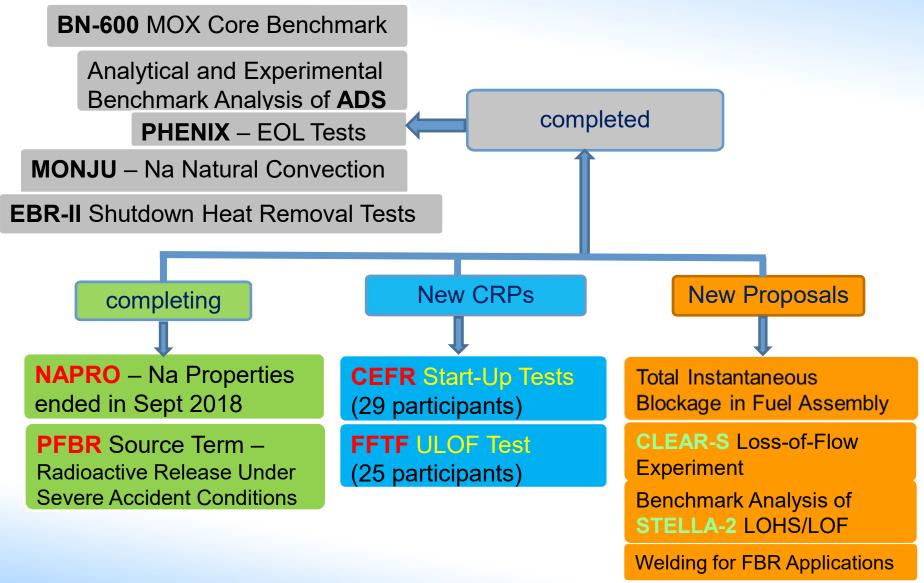


Publications – to be published soon

- 2020 Edition of SMR Booklet
- TECDOC: Considerations for Environmental Impact Assessment for SMR
- TECDOC: Options to Enhance Energy Supply Security using Hybrid Energy Systems based on SMR
- NES: Technology Roadmap for SMR Deployment
- TECDOC: Sodium Properties
- NES: Nuclear-Renewable Hybrid Energy Systems

Coordinated Research Projects on Fast Reactor Technology







CRPs relevant to SMRs and HTGRs

- Development of Approaches, Methods and Criteria for Determining Technical Basis for EPZ for SMR Deployment (2018-2021)
- Design and Performance Assessment of Passive Engineered
 Safety Features in Advanced SMRs (2017-2020)
- Economic Appraisal of SMR Projects: Methodologies and Applications (2020-2023)
- HTGR Physics, Thermal-Hydraulics and Depletion Uncertainty Analysis (2012-2019)
- Modular HTGR Safety Design (2014-2018: Publications under finalization)
- Technologies to enhance the competitiveness and early deployment of SMRs and HTRs (to be launched at the end of 2020)

2020 IAEA Scientific Forum: Nuclear Power and the Clean Energy Transition 22-23 September 2020

- To discuss scientific and technological innovation indispensable to the clean energy transition
- Sessions
 - Opening
 - Innovations for Achieving a Clean Energy Transition
 - Raising the Bar: Nuclear Energy for Deep Decarbonization
 - Managing the Life Cycle for a Sustainable Future
 - Advancing he Clean Energy Transition
 - Closing



Upcoming GIF-IAEA Meetings

- 14th GIF-IAEA Interface Meeting, 15-16 April 2020
 - 8 July 2020, 3 hr virtual meeting
- 9th Joint GIF-IAEA Workshop on the Safety of Liquid Metal Cooled Fast Reactors, 18-20 March 2020
 - 12-14 January 2021, to be confirmed



Thank you!

