

IAEA Technical Meeting on Advances and Innovations in Fast Reactor Design and Technology

Report of Contributions

Contribution ID: 13

Type: **Oral**

Fast Reactor R&D in PIONEER

Tuesday 30 September 2025 12:35 (30 minutes)

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Presenter: ROELOFS, Ferry (NRG PALLAS)

Session Classification: Track 1.2

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 15

Type: **Oral**

Hydraulic Design and Development of Passive Safety Shutdown System of Indian SFR

Wednesday 1 October 2025 16:00 (30 minutes)

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Session Classification: Track 4.1

Track Classification: Track 4: Innovative systems and components

Contribution ID: 17

Type: **not specified**

Investigation on the Self-Start-Stop Functionality for Small Sodium Cooled Fast Reactor Nuclear Power Systems

Tuesday 30 September 2025 16:50 (30 minutes)

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Presenter: LI, Yichen (China Institute of Atomic Energy)

Session Classification: Track 3

Track Classification: Track 3: Advanced fast reactor and core designs, including SMRs

Contribution ID: 18

Type: **not specified**

CONCEPTUAL DESIGN OF A MICRO NUCLEAR ENERGY SYSTEM WITH INTEGRATED HEAT PIPE COOLED REACTOR AND MOLTEN SALT HEAT STORAGE

Wednesday 1 October 2025 14:30 (30 minutes)

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Presenter: Dr HUANG, dong (Xi'an Jiaotong University)

Session Classification: Track 4.1

Track Classification: Track 4: Innovative systems and components

Contribution ID: 22

Type: **Oral**

FAST REACTORS ACTIVITIES IN ROMANIA

Tuesday 30 September 2025 10:05 (30 minutes)

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Session Classification: Track 1.2

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 23

Type: **Oral**

EXPERIMENTAL INFRASTRUCTURE IN SUPPORT OF R&D AND LICENSING PROCESS FOR LEAD FAST REACTOR TECHNOLOGY

Wednesday 1 October 2025 12:00 (30 minutes)

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Session Classification: Track 6

Track Classification: Track 6: Experimental facilities and databases

Contribution ID: 25

Type: **Poster**

DESIGN OPTIMIZATION OF SURGE TANK HYDRAULICS OF SFR

Thursday 2 October 2025 14:35 (1 hour)

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Presenter: PERIKKENGAL, LIJUKRISHNAN

Session Classification: Poster Session

Track Classification: Track 4: Innovative systems and components

Contribution ID: 27

Type: **not specified**

CFD SIMULATION OF LONG-TERM COOLING OF CORIUM IN ALLEGRO CORE CATCHER

Thursday 2 October 2025 10:00 (30 minutes)

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Session Classification: Track 4.2

Track Classification: Track 4: Innovative systems and components

Contribution ID: 29

Type: **not specified**

Determination Of Carbide Fuel Maximal Burnup For Allegro Gas Cooled Fast Reactor

Monday 29 September 2025 14:30 (30 minutes)

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Session Classification: Track 5

Track Classification: Track 5: Advanced Fuels and Materials

Contribution ID: 35

Type: **Poster**

DESIGN OF COVER GAS PURIFICATION SYSTEM FOR FAST BREEDER REACTOR

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Presenter: MG, Hemanath

Session Classification: Poster Session

Track Classification: Track 6: Experimental facilities and databases

Contribution ID: 36

Type: **not specified**

RECENT DEVELOPMENTS TOWARD A FLEET OF FAST REACTORS IN FRANCE

Monday 29 September 2025 12:30 (30 minutes)

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Presenter: BARBE, Vincent (EDF)

Session Classification: Track 1.1

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 38

Type: **Oral**

EXPERIMENTAL DEMONSTRATION AND PERFORMANCE EVALUATION OF PASSIVE DECAY HEAT REMOVAL SYSTEM OF PFBR

Wednesday 1 October 2025 16:30 (30 minutes)

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Session Classification: Track 4.1

Track Classification: Track 4: Innovative systems and components

Contribution ID: 40

Type: **Oral**

ISIR SIMULATION USING CEA-SPECIFIC ULTRASONIC INSTRUMENTATION: TWO MOCKUP STUDIES

Wednesday 1 October 2025 15:00 (30 minutes)

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Session Classification: Track 4.1

Track Classification: Track 4: Innovative systems and components

Contribution ID: 41

Type: **not specified**

Research Progress on Metallic Fuel for Integrated Fast Reactors: Characteristics, Challenges, and Future Prospects

Monday 29 September 2025 15:00 (30 minutes)

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Session Classification: Track 5

Track Classification: Track 5: Advanced Fuels and Materials

Contribution ID: 42

Type: **Oral**

ALLEGRO, the Gas Fast Reactor Demonstrator, Advancement and challenges

Tuesday 30 September 2025 12:05 (30 minutes)

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Session Classification: Track 1.2

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 44

Type: **Oral**

Environmental Degradation Testing of Alloy 709

Monday 29 September 2025 16:30 (30 minutes)

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Presenter: JOKISAARI, Andrea (Idaho National Laboratory)

Session Classification: Track 5

Track Classification: Track 5: Advanced Fuels and Materials

Contribution ID: 45

Type: **Poster**

International Collaboration on Severe Accident Studies for Sodium-Cooled Fast Reactor Development in JAEA

Thursday 2 October 2025 14:35 (1 hour)

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Session Classification: Poster Session

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 46

Type: **Oral**

DEVELOPMENT OF OPTICAL NEUTRON DETECTORS AT CEA: Toward an innovative neutron detector for sodium fast reactors

Thursday 2 October 2025 10:30 (30 minutes)

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Session Classification: Track 4.2

Track Classification: Track 4: Innovative systems and components

Contribution ID: 48

Type: **Oral**

BN-1200M New Generation Reactor Plant

Monday 29 September 2025 11:00 (30 minutes)

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Session Classification: Track 1.1

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 51

Type: **not specified**

COMPONENT DEVELOPMENT AND TESTING FOR FUEL HANDLING MACHINES IN SODIUM FAST REACTORS AT ARGONNE NATIONAL LABORATORY

Thursday 2 October 2025 12:00 (20 minutes)

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Presenter: Dr GRANNAN, Alexander (Argonne National Laboratory)

Session Classification: Track 4.2

Track Classification: Track 4: Innovative systems and components

Contribution ID: 54

Type: **Oral**

Status of U.S. Fast Reactor Development

Monday 29 September 2025 12:00 (30 minutes)

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Session Classification: Track 1.1

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 55

Type: **not specified**

Bearing Testing in Liquid Sodium for Fast Reactor Technology

Thursday 2 October 2025 12:20 (20 minutes)

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Presenter: OGREN, Evan (Argonne National Laboratory)

Session Classification: Track 4.2

Track Classification: Track 4: Innovative systems and components

Contribution ID: 57

Type: **Oral**

DEVELOPMENT AND IMPLEMENTATION OF THE COMMERCIAL EAGLES-300 PROGRAM

Tuesday 30 September 2025 10:35 (30 minutes)

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Session Classification: Track 1.2

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 58

Type: **Oral**

CONCEPTUAL DESIGN FOR THE POOL-TYPE SODIUM-COOLED FAST REACTOR (1) General plan and core design

Tuesday 30 September 2025 14:35 (45 minutes)

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Session Classification: Track 1.2

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 59

Type: **Oral**

PROGRESS OF THE FAST MODULAR REACTOR CONCEPTUAL DESIGN

Tuesday 30 September 2025 16:20 (30 minutes)

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Session Classification: Track 3

Track Classification: Track 3: Advanced fast reactor and core designs, including SMRs

Contribution ID: 60

Type: **Oral**

MICRO-SIZE MULTI-MODULE MOLTEN SALT AND METAL REACTOR (MSMR) FOR HIGH POWER AND LONG LIFETIME

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Presenter: RYU, JAEHYUN

Session Classification: Track 3

Track Classification: Track 3: Advanced fast reactor and core designs, including SMRs

Contribution ID: 61

Type: **Poster**

CONCEPTUAL DESIGN FOR THE POOL-TYPE SODIUM-COOLED FAST REACTOR (3) Basic concept of reactor structure

Thursday 2 October 2025 14:35 (1 hour)

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Session Classification: Poster Session

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 62

Type: **Poster**

CONCEPTUAL DESIGN FOR THE POOL-TYPE SODIUM-COOLED FAST REACTOR (2) General plan for research and development

Thursday 2 October 2025 14:35 (1 hour)

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Session Classification: Poster Session

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 63

Type: **not specified**

INTRODUCTION TO THE OVERALL DESIGN OF METALLIC FAST REACTOR OF THE CiFR1000

Monday 29 September 2025 10:30 (30 minutes)

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Session Classification: Track 1.1

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 65

Type: **Oral**

DESIGN OF A FLOW REDISTRIBUTION DEVICE FOR THE ANNULAR SECTION OF A REFLUX TYPE ELECTROMAGNETIC PUMP USING CFD

Thursday 2 October 2025 11:00 (30 minutes)

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Session Classification: Track 4.2

Track Classification: Track 4: Innovative systems and components

Contribution ID: 66

Type: **Oral**

ESFR-LIKE PLUTONIUM BURNERS: DESIGN AND SAFETY STUDIES

Tuesday 30 September 2025 15:20 (30 minutes)

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Session Classification: Track 3

Track Classification: Track 3: Advanced fast reactor and core designs, including SMRs

Contribution ID: 68

Type: **not specified**

Update on GFR R&D Program in Czechia

Tuesday 30 September 2025 11:05 (30 minutes)

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Session Classification: Track 1.2

Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: 69

Type: **Oral**

TRANSITION FROM FORCED TO NATURAL CIRCULATION ASSESSMENT IN CIRCE-THETIS EXPERIMENTAL FACILITY

Wednesday 1 October 2025 10:30 (30 minutes)

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Session Classification: Track 6

Track Classification: Track 6: Experimental facilities and databases

Contribution ID: 73

Type: **Oral**

STATUS OF U.S. FAST REACTOR FUEL RESEARCH DEVELOPMENT AND DEPLOYMENT

Monday 29 September 2025 16:00 (30 minutes)

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Session Classification: Track 5

Track Classification: Track 5: Advanced Fuels and Materials

Contribution ID: 75

Type: **not specified**

KEY MILESTONES OF NEWCLEO'S THERMAL-HYDRAULIC EXPERIMENTAL PROGRAMME

Wednesday 1 October 2025 11:30 (30 minutes)

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Session Classification: Track 6

Track Classification: Track 6: Experimental facilities and databases

Contribution ID: 76

Type: **Poster**

Investigation and qualification of Nuclear Materials for Gen-IV Lead Fast Reactor

Thursday 2 October 2025 14:35 (1 hour)

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Session Classification: Poster Session

Track Classification: Track 6: Experimental facilities and databases

Contribution ID: 77

Type: **Oral**

EXPERIMENTAL STUDIES ON SEVERE ACCIDENTS IN SFRs

Wednesday 1 October 2025 10:00 (30 minutes)

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Session Classification: Track 6

Track Classification: Track 6: Experimental facilities and databases

Contribution ID: 79

Type: **Poster**

FR26 test

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Track Classification: Track 1: Fast Reactors in National and International Nuclear Energy Programmes

Contribution ID: **80**

Type: **not specified**

Panel Discussion

Session Classification: Track 6

Contribution ID: **81**

Type: **not specified**

Track 4 Concluding Discussion

Thursday 2 October 2025 12:40 (30 minutes)

Session Classification: Track 4.2