

IAEA National training course on Heavy Liquid Metal Cooled Fast Reactors: Benefits and Challenges

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome Remarks and Introductions

Monday 16 February 2026 09:30 (1 hour)

Presenters: Dr NITOI, MIRELA (RATEN ICN); KRIVENTSEV, Vladimir (IAEA)

Contribution ID: 2

Type: **not specified**

Introduction of Innovative Nuclear Reactors and GEN-IV Concepts

Monday 16 February 2026 10:30 (1 hour)

Presenter: KRIVENTSEV, Vladimir (IAEA)

Contribution ID: 3

Type: **not specified**

IAEA activities on innovative reactor technology

Monday 16 February 2026 12:00 (1 hour)

Presenter: VIRGILI, Nicole

Contribution ID: 4

Type: **not specified**

Fundamentals of LFR technology and Accelerator Driven Systems (ADS)

Tuesday 17 February 2026 16:00 (1 hour)

Presenter: PACIO, Julio (SCK CEN)

Contribution ID: 5

Type: **not specified**

Introduction of heavy liquid metal cooled reactors

Monday 16 February 2026 14:30 (1 hour)

Presenter: TARANTINO, Mariano (ENEA)

Contribution ID: 6

Type: **not specified**

LFR Technology: lead benefits and issues; technology development in USA

Tuesday 17 February 2026 09:30 (1 hour)

Presenter: LIAO, Jun (Westinghouse Electric Company)

Contribution ID: 7

Type: **not specified**

Lead Chemistry Technologies: Tritium balance in the reactor, chemistry control and protective coating

Monday 16 February 2026 16:00 (1 hour)

(online)

Presenter: UTILI, Marco (ENEA)

Contribution ID: 8

Type: **not specified**

Thermal-hydraulics and fuel performance aspects in core design

Tuesday 17 February 2026 14:30 (1 hour)

Presenter: LODI, Francesco (ENEA)

Contribution ID: 9

Type: **not specified**

R&D, coolant chemistry, materials, irradiation

Wednesday 18 February 2026 17:00 (1 hour)

(online)

Presenter: SILVIOLI, Luca (Newcleo)

Contribution ID: **10**

Type: **not specified**

Lead-Bismuth Eutectic Alloy as a Coolant: Benefits and Challenges

Tuesday 17 February 2026 10:30 (1 hour)

Presenter: PACIO, Julio (SCK CEN)

Contribution ID: 11

Type: **not specified**

Heavy Liquid Metal Experiment Facilities

Presenter: Dr NITOI, MIRELA (RATEN ICN)

Contribution ID: 12

Type: **not specified**

EAGLES-300 Program and Design Options

Wednesday 18 February 2026 14:30 (1 hour)

Presenter: CARMELLO, Marco (Ansaldo Nucleare)

Contribution ID: 13

Type: **not specified**

ALFRED Design Features

Wednesday 18 February 2026 12:00 (1 hour)

Presenter: CARMELLO, Marco (Ansaldo Nucleare)

Contribution ID: **14**

Type: **not specified**

Poster session

Contribution ID: 15

Type: **not specified**

Numerical simulation of LFRs: Neutronics, TH

Presenter: GUGIU, Daniela (RATEN ICN)

Contribution ID: 16

Type: **not specified**

Safety of LFR: safety system, testing and analysis

Thursday 19 February 2026 09:30 (1 hour)

Presenter: LIAO, Jun (Westinghouse Electric Company)

Contribution ID: 17

Type: **not specified**

Safety of LFR: safety regulations, safety principles and licensing interactions

Thursday 19 February 2026 12:00 (1 hour)

Presenter: LIAO, Jun (Westinghouse Electric Company)

Contribution ID: **18**

Type: **not specified**

Multiphysics Severe Accident simulation (SIMMER code)

Thursday 19 February 2026 10:30 (1 hour)

(online)

Presenter: GIANFELICI, Simone

Contribution ID: 19

Type: **not specified**

Safety Demonstration of newcleo's LFR-AS-030

Friday 20 February 2026 09:30 (1 hour)

Presenter: GERRA, Guido (newcleo)

Contribution ID: **20**

Type: **not specified**

Poster Session

Contribution ID: 21

Type: **not specified**

Status of the LFR development in Russia and Design and features of BREST-OD-300

Contribution ID: 22

Type: **not specified**

Poster Session

Contribution ID: 23

Type: **not specified**

Technical visit: facilities Athena and Chemlab

Thursday 19 February 2026 14:30 (3h 30m)

Contribution ID: 24

Type: **not specified**

Pool Thermal-Hydraulic: Experiments, Simulations, Technology

Tuesday 17 February 2026 17:00 (1 hour)

Presenter: TARANTINO, Mariano (ENEA)

Contribution ID: 25

Type: **not specified**

IAEA activities related to Proliferation resistance features of Fast Reactors

Wednesday 18 February 2026 16:00 (1 hour)

Presenter: VIRGILI, Nicole

Contribution ID: 26

Type: **not specified**

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Contribution ID: 27

Type: **not specified**

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Contribution ID: **28**

Type: **not specified**

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Contribution ID: 29

Type: **not specified**

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Contribution ID: **30**

Type: **not specified**

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Contribution ID: **31**

Type: **not specified**

Conclusions

Friday 20 February 2026 12:30 (30 minutes)

Presenter: KRIVENTSEV, Vladimir (IAEA)

Contribution ID: **32**

Type: **not specified**

End of Day 5

Contribution ID: 33

Type: **not specified**

Severe Accident Analysis and Probabilistic Safety Assessment for an LFR

Friday 20 February 2026 10:30 (1 hour)

Presenter: GERRA, Guido (newcleo)

Contribution ID: **34**

Type: **not specified**

Materials for GenIV reactors

Tuesday 17 February 2026 12:00 (1 hour)

Presenter: RADU, Vasile (RATEN ICN)

Contribution ID: 35

Type: **not specified**

Waste management and advanced reactors

Wednesday 18 February 2026 09:30 (1 hour)

Presenter: BUCUR, Crina (RATEN ICN)

Contribution ID: **36**

Type: **not specified**

ALFRED Experimental Support Infrastructure

Wednesday 18 February 2026 10:30 (1 hour)

Presenter: TBD

Contribution ID: 37

Type: **not specified**

Panel discussion: Challenges to implement LFRs

Friday 20 February 2026 11:30 (1 hour)