

Program Structure and Format

FISA 2019 conference will feature plenary and poster sessions. Invited speakers will make the plenary presentations. Sessions will include addresses made by representatives of EC, International organisations and Euratom research projects. The respective presentations will be in the form of overviews, summaries and analyses of the subject or project matter. Panel discussions will conclude the main thematic domains. More detailed results of projects and additional contributions will be presented by posters.

Day 1 - Tuesday , 4 June 2019

(AM) **Joint introduction FISA 2019/EURADWASTE '19**
Scene setter, Romanian energy policy, national research and implementation programme, EU Energy and Climate policies, and achievements in Euratom nuclear research and innovation programmes

(PM) **Parallel FISA and EURADWASTE sessions**
Safety of nuclear installations (I)
Parallel workshops

Day 2 - Wednesday, 5 June 2019

(Cont. parallel sessions + ENEN PhD Event & Prize)

(AM) Safety of nuclear installations (II)

(PM) Advanced nuclear systems and fuel cycles

(AM-PM) ENEN PhD Event & Prize in a parallel session

Day 3 - Thursday, 6 June 2019

(Cont. parallel sessions)

(AM) Education and training, research infrastructures and international cooperation

Parallel workshops

(PM) Joint conclusions FISA 2019/ EURADWASTE '19

Day 4 - Friday, 7 June 2019

Technical visits:

TRIGA research reactor and Hot Cells facilities (at the Institute for Nuclear Research, and Nuclear Fuel Factory (Pitesti, Mioveni)

ELI – Extreme Light Infrastructure (in Bucharest-Magurele)

Cernavoda NPP and Waste management facilities (in Cernavoda–Constanta)

Publication

The proceedings including written papers will be published in English and electronically.

Practical Information and Registration

Venue: Hotel Ramada Pitesti

Date: 4-6 June 2019 Conferences, 7 June Technical visits

Official language: English will be the working language for the oral and written communications of the conference

Conference fee: There will be no conference fee. Early registration will be required

Detailed information regarding the programme and accommodation will be made available together with the registration forms early 2019

Important Dates

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|------------------|--|
| 15 November 2018 | First Announcement |
| 15 January 2019 | Second Announcement Preliminary programme Registration opens |
| 15 May 2019 | Registration Deadline Final programme |
| 4-7 June 2019 | FISA 2019 EURADWASTE '19 |

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FISA 2019

9th European Commission Conference
on Euratom Research and Training
in Reactor Systems



Co-organised
by the European Commission
and the Romanian Presidency of the Council
of the EU in 2019

4-7 June 2019
Pitesti, Romania

Rationale

The European Commission (EC) is co-organising the **FISA 2019** and **EURADWASTE '19** conferences with the Ministry of Research and Innovation of Romania and the Institute for Nuclear Research (RATEN-ICN) under the auspices of the Romanian Presidency of the Council of the EU in 2019.

FISA 2019 and EURADWASTE '19

Gathering some 500 stakeholders, the **FISA 2019** and **EURADWASTE '19** conferences objectives are:

- To present progress and key achievements of some 90 projects carried out, since the previous conference edition in 2013, as part of the 7th and Horizon 2020 Euratom Research and Training Framework Programmes (FP)
- To stimulate discussions on the state of play of R&D, key challenges addressed at national, European and international levels on Research and Innovation policies, synergies and partnerships benefitting research and innovation programmes, and future perspectives.

FISA 2019 and EURADWASTE '19 conferences will address and engage with all relevant stakeholders involved: research and training organisations, academia, industry, technology platforms, European fora and European civil society, and International Organisations.

There will be many opportunities for interaction within dedicated parallel & poster sessions, and thematic workshops. The latest EC proposal for a new Framework Programme for Research and Innovation for the period 2021-27, 'Horizon Europe' and 'Euratom Research and Training' programme will also be addressed.

The **FISA 2019** and **EURADWASTE '19** shall be **dynamic** and **interactive conferences**: the format, timing and delivery of the sessions should engage the audience. Time will be devoted to Q&A sessions.

Objectives and Scope

FISA 2019 (Euratom conference on Fission Safety of reactor systems) will be held in parallel with EURADWASTE '19, a conference on radioactive waste management and geological disposal. Both events are co-organised by the European Commission and the Ministry for Research and Innovation, Ministry of European Affairs and Ministry of Foreign Affairs of Romania, and under the auspices of the Romanian Presidency of the Council of the EU in 2019.

The main objective of FISA 2019 is to enable the scientific community and interested stakeholders to take stock of the progress that has been made and the challenges that have arisen since the last FISA and EURADWASTE Conferences held in Vilnius, Lithuania, in October 2013.

A common introduction and closure to the two conferences will provide a unique opportunity to set the scene at EU and national levels and to obtain a synthetic view of issues and policies regarding the status of research and implementation of programmes in both reactor systems, with emphasis on safety, and high-level radioactive waste disposal in Europe. The rest of the sessions will be held in parallel with the ENEN PhD Event & Prize, and cover specific FISA 2019 and EURADWASTE '19 themes.

FISA 2019 will feature:

- Specific sessions to present and discuss key results and achievements of all the latest FP7 and H2020 Euratom research and training projects (around 70 overall) supporting safety research of reactor systems. Highlights of the needs, benefits and limitations from 'H2020 Euratom research and training' complementing the 'H2020 EU Research and Innovation' framework programme will be provided. Future perspectives and missions of the proposed 'EU Horizon Europe' and 'Euratom research and Training' for the period 2021-27 should also be discussed thanks to the participation of high-level representatives throughout the entire conference. Sessions will cover research progress on: safety of existing nuclear installations; severe accidents prevention and mitigation including emergency management; advanced nuclear systems for increased safety and sustainability, numerical simulation and digitalisation, innovative materials, research infrastructures, education & training and mobility of researchers, and cross-cutting actions such as International Cooperation.

- Specific thematic workshops will take place in parallel sessions and will address issues of common interest, e.g. research on materials (fission, fusion and non-nuclear energy); ETKM, lifelong learning and borderless mobility; innovation beyond technology; transnational access and funding of infrastructures; international research cooperation and partnerships in research and innovation.
- FISA 2019 and EURADWASTE '19 Poster and PhD awards, where the 'best 5 (five)' out of 15 participating PhD and Master Students selected by the audience will be invited to present a compelling spoken presentation of their research topic to the international Research Community during the closure Plenary Session of FISA 2019 and EURADWASTE '19. Inspired by existing Three-Minute Thesis competitions, the presentation should compress the research topic into 180 seconds, and communicate it to the international Research Community. This presentation will have to be complemented by a poster presentation which will be on display for the entire duration of the conference and should be discussed with the audience during a dedicated Poster Session. The aim should therefore be to make the research topic clear and compelling for the audience.
- FISA 2019 and EURADWASTE '19 will also welcome any complementary abstracts, papers and posters related to the sessions and Euratom projects. They will be published within the proceedings of the conferences.

The ENEN PhD Event & Prize will also be organized in a parallel session to promote and support the work of young researchers in Europe. This is an action of the European Nuclear Education Network (ENEN) on a yearly basis to support the Research and Science in the Nuclear fields promoting the work of the young scientists and researchers who start their career finishing their PhD.

The ENEN PhD Event & Prize will consist of up to 12 PhD presentations nominated by ENEN Members and selected by the ENEN PhD Prize Jury. The event is divided into several sessions according to the subjects. The participants will make a presentation of their research work for 25 minutes followed by 5 minutes questions and discuss in a competitive but friendly environment.