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10th

Euratom joint conferences on

Reactor Safety
(FISA 2022)

Radioactive Waste Management
(EURADWASTE'22)



Sharpen your skills

Technical visits
Workshops & Forums
Mentoring programs



Showcase your research

Posters exhibition
PhD/MSc Conferences & awards
Specialized Sessions



Build up your Network

Plenaries
Nuclear innovation Prize
Social activities

Co-organized by:



Under the scope of:



In collaboration with:



About the conferences

The European Commission invites all relevant stakeholders and young professionals to participate in the 10th Edition of Euratom research and training conferences on fission safety of reactor systems (**FISA 2022**) and radioactive waste management (**EURADWASTE'22**). They will be held in Lyon (France) between the 30.05 and the 03.06.22

Gathering up to 500 stakeholders altogether, FISA and EURADWASTE 2022 are aimed to open the floor for discussions on the role of R&D and key challenges at national, European and international levels. It will offer the opportunity to showcase the results of projects within the Horizon 2020 Euratom Research and Training Framework Program and to get to know the latest European Framework Programme for Research and Innovation "Horizon Europe 2021 -2027".

The conferences feature parallel and poster sessions, exhibitions, networking opportunities for young professionals, and rewards for outstanding research in the nuclear field.

Preliminary program

	FISA 2022		EURADWASTE 2022
MONDAY 30 th May	Morning	Registration	Workshop with EU Member states representatives
	Afternoon	Guided tour	
	Evening	Welcome reception	
TUESDAY 31 st May	Morning	Joint High-level opening	
	Afternoon	FISA Session 1: Exhibitions, Posters, Workshops	EURADWASTE 2022 Session 1
	Evening	ENS-YGN Cocktail and matchmaking	
WEDNESDAY 1 st June	Morning	FISA Session 2: Exhibitions, Posters, Workshops	EURADWASTE 2022 Session 2
	Afternoon	FISA Session 3: Exhibitions, Posters, Workshops	EURADWASTE 2022 Session 3
	Evening	ENS-YGN Cocktail and matchmaking, joint dinner and awards	
THURSDAY 2 nd June	Morning	FISA and EURADWASTE Joint High-level conclusion, SNETP 2022 Opening	
	Afternoon	SNETP Forum	ENS-YGN matchmaking
	Evening		
FRIDAY 3 rd June	Morning	Technical visits	
	Afternoon		
	Evening		

Conference Sessions

FISA 2022 Sessions



Showcase your
research

1 | Safety of nuclear installations

- Reactor Performance, system reliability: Long-term operation
- Reactor Performance, system reliability: Instrumentation and control
- Advanced numerical simulation and modelling for reactor safety
- Innovative Gen-II -III and Research Reactors' Fuels and Materials
- Safety assessments and severe accidents, impact of external events on nuclear power plants and on mitigation strategies
- Probabilistic Safety Assessment for internal and external events on nuclear power plants and on mitigation strategies

2 | Advanced nuclear systems & fuel cycles

- R&D in support to safety assessment, design and licensing of ESNII/Gen-IV
- From fuel to fuel: Dissolution, Partitioning and fuel manufacturing
- Partitioning and Transmutation, contribution to an EU strategy for HLW management
- Innovative Gen-IV Fuels and Materials, EERA-JPNM, Fission and Fusion
- Nuclear Cogeneration with High Temperature Reactors
- Nuclear data activities

3 | Education & Training, research infrastructures, low-dose radiation protection, decommissioning & International Cooperation

- Education, Training and mobility, knowledge management: towards a common effort to assure a future workforce in Europe and abroad
- Improved expertise in radiation protection and medical applications
- Improved expertise and innovations in decommissioning
- Supporting Access to key pan-European research infrastructures and International Cooperation

Conference Sessions

EURADWASTE 2022 Sessions



Showcase your
research

1 | Collaborative Research, Development and Demonstration in Radioactive Waste Management

- Radioactive Waste Characterisation
- Predisposal Operations
- Long term behaviour of waste packages
- Engineered Barrier Systems
- Host rocks and THMC processes in GDR
- Spent Fuel Management

2 | Strategic Research Studies in Radioactive Waste Management

- Sustainable networking for Independent Technical Expertise in RWM
- Uncertainty management in establishing safety cases for GDR
- Integration Group for the Safety Case
- Waste Management Routes "From cradle to grave"
- Financial aspects of Radioactive Waste Management
- International perspectives in RWM and Geological Disposal

3 | Knowledge Management in Radioactive Waste Management

- State of knowledge
- Training and mobility
- E&T, T&T, KM challenges and opportunities applied to RWM



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EURADWASTE'22**
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ENEN PhD Event & Prize

The European Nuclear Education Network (ENEN) awards outstanding young scientists in the fields of nuclear technology. 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 will be held in a parallel session divided into several areas according to the subjects. The participants will hold a 25-minute presentation of their research followed by 5 minutes questions and discussions. Three awarded ENEN PhD Prizes related peer-reviewed papers should be published within the international Open Access Journal (EPJ-N) topical issue on FISA 2022 – EURADWASTE 2022 Awards and later within the conferences proceedings.



Showcase your
research

Posters Gallery

An opportunity to present your research results, within the topics covered, at the conferences, to the Euratom and International Research Community. PhD/MSc Students (under 35 years' old) are encouraged to submit abstracts related to the dedicated topics of the conferences, as well as R&D researchers from organisations not directly involved in projects co-funded by Euratom. Find more information about the poster competitions in the Calls and Guidelines section.

Nuclear innovation prizes

Nuclear innovation prizes in Safety of reactor systems and in radioactive waste management The 'Nuclear Innovation Prize' (call closed) is meant to give visibility to the most dynamic, forward-looking and innovative researchers, research teams or industrial contestants, with a prize planned to be delivered by European Commissioner Mariya Gabriel for Innovation, Research, Culture, Education and Youth (tbc).

Six awarded Nuclear Innovation Prizes related peer-reviewed papers should be published within the international Open Access Journal (EPJ-N) topical issue on FISA 2022 – EURADWASTE'22 and later in the conferences proceedings

Nuclear Innovation Prize in safety of reactor systems

- 1st Place: EUR 50.000
- 2nd Place: EUR 30.000
- 3rd Place: EUR 20.000

Nuclear Innovation Prize in radioactive waste management

- 1st Place: EUR 50.000
- 2nd Place: EUR 30.000
- 3rd Place: EUR 20.000



Build up your
Network

ENS-YGN matchmaking events



Sharpen your skills

ENS-YGN is a vibrant network connecting all Nuclear Young Generation Networks over Europe. These events are a huge opportunity for Students, MSc/PhDs or young professionals to meet national / European / International leading managers, innovators and researchers from public and private research organisations.

Around 200 candidates will be selected after having submitted their CV. In depth 30 min face-to-face matchmaking interviews and networking opportunities will be organised for them with leading national / international managers, participating companies or even recruiters. This event will allow companies active in the nuclear industry, public and private research organisations or academia, to meet and interview students, graduates, engineers and experienced professionals to start or pursue their career within Europe and beyond. Institutions such as Nuclear Valley or GIFEN will take part in the event.

SNETP 2022-Forum

The **SNETP Forum 2022**, will contribute to discuss and analyse recent technological innovations to enable the nuclear sector to play its role in the mitigation of climate change and to contribute to climate neutrality.

The Sustainable Nuclear Energy Technology Platform (SNETP) association was established in September 2007 as a Research & Development & Innovation platform to support and promote the safe, reliable and efficient operation of Generation II, III and IV civil nuclear systems. Since May 2019, SNETP has been operating as an international non-profit association (AISBL) under the Belgian law pursuing a networking and scientific goals. It is recognised as a European Technology and Innovation Platform (ETIP) by the European Commission and gathers today over 100 European stakeholders from 25 different countries.



Sharpen your skills



Build up your Network



Showcase your research

Workshops

Dedicated workshops can be organised upon request to the organising committee:

contact@fisa-euradwaste-2022.fr

Exhibition, B2B

Exhibition booths will be set up for almost 20 organisations to showcase advancements in technologies and geological repository development. Exhibition booths will remain open during all sessions and breaks and will give the opportunity for intensive B2B meetings.

Call for abstracts

General points

Language: English is the language of the conference. submissions, publications and onsite presentations (oral and posters)

Author responsibility: It is the responsibility of the author to get all internal reviews and institution approvals prior submission.

Publications I: On the conference's website (regular updates) Key information will be available on this website, including first announcement, programmes, book of abstracts, PPT presentations, speakers bios, links to (Youtube) videos and conferences proceedings (EU publications Office). Publications will also be available on an iOS/Android App.



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Call for abstracts



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General points

Publications II: Selected outstanding research will be published within the EPJ-N Topical Collections (by July and September 2022):

- [Euratom Research and Training in 2022](#): challenges, achievements and future perspectives
- [Euratom Research and Training in 2022](#) : the Awards collection

Specific Guidelines: Call for abstracts

Open call

Poster competition - PhD/MSc awards, Student competition

PhD/MSc Students (under 35 years' old) are encouraged to submit abstracts related to the dedicated conference's topics. The FISA 2022 – EURADWASTE '22 Programme Committee will select around 100 abstracts (50 for each conference) to be presented as posters.

The Programme Committee will give PhD/MSc awards to the 'best 10' out of 100 invited PhD/MSc Students. They will be invited to present a compelling 180 seconds spoken presentation of their research topic to the international Research Community during a dedicated Session of FISA 2022 – EURADWASTE '22.

The awarded 10 PhD/MSc will benefit from the opportunity to publish free of charge related peer-reviewed papers that will be published in the international Open Access Journal (EPJ-N) FISA 2022 – EURADWASTE '22 Awards topical issue, and later within the proceedings of the conferences.

The 50 selected PhD/MSc students for the competition will also receive **financial support** (estimated EUR 500) to cover partial travelling expenses to Lyon (France). Specific information will be given after the registration process.



Showcase your
research

Open call

Poster competition - R&D Topics awards

R&D topics are also studied by researchers from organisations not directly involved in projects co-funded by Euratom. These researchers are encouraged to submit abstracts related to the dedicated topics of the conferences. The FISA 2022 – EURADWASTE '22 Programme Committee will select 20 abstracts (10 for each conference) to be presented in posters.

The Programme Committee will give R&D Topics Researchers' awards to the 'best 4' out of 20 selected. They will be invited to present a compelling 180 seconds spoken presentation of their research topic to the international Research Community during a dedicated Session of FISA 2022 – EURADWASTE '22.

The awarded 4 R&D Topics researchers will benefit from the opportunity to publish free of charge related peer-reviewed papers that will be published in the international Open Access Journal (EPJ-N) FISA 2022 Awards topical issue, and later within the proceedings of the conferences. The 20 invited R&D Topics researchers for the competition will not receive financial support to cover expenses in Lyon (France).

All abstracts, full papers, posters and presentations must follow the templates available on the event's website. They must be submitted via the submission portal prior to the established deadlines.

Deadlines

PhD/MSc awards

February 28th

Abstracts

March 15th

Author's notification

April 15th

PPT Presentation/Posters

May 15th

Revised PPT Presentation/Posters

June 15th / July 15th

Full papers/Full revised papers
(in case of EPJ-N)

Invited EURATOM Projects

February 15th

Abstracts

March 15th

Full papers

April 15th

Full paper round peer reviews

PPT Presentation/Posters

May 15th

Revised Full papers

Revised PPT Presentation/Posters



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Contact us

contact@fisa-euradwaste-2022.fr

30.05. - 03.06.2022: Hôtel de Région
Auvergne-Rhône-Alpes
1 Esplanade François Mitterrand
69002 Lyon, France

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