

International Conference on Topical Issues in Nuclear Installation Safety:

**Strengthening Safety of Evolutionary and
Innovative Reactor Designs**

Date 18-21 October 2022

PROGRAMME

**Organized by the
International Atomic Energy Agency (IAEA)
IAEA Headquarters Vienna, Austria**

In Cooperation with

European Commission Joint Research Centre (EC-JRC)

European Technical Safety Organisations Network
(ETSON)

OECD Nuclear Energy Agency (OECD-NEA)

World Nuclear Association (WNA)

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Location of the Event:

International Atomic Energy Agency
Vienna International Centre (VIC)
Building C, Boardroom D / CR1 / CR2 / CR7

Wagramer Strasse 5
A-1400 Vienna, Austria
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¹ Initially from UAE; from summer 2022 moved to USA with job post

² Initially from ONR; from summer 2022 moved to IAEA with job post

Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

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Check floor map of the sessions and exhibitors



Read abstracts and full-papers of speakers



Participate in voting during sessions



Raise questions to speakers during session



Send message to other participants



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If you have questions or require assistance on the App, please contact the Registration Desk.

TIMETABLE

Tuesday, 18 October 2022

Time	Session No.	Session Title / Break	Venue
8:00–9:30		Registration of participants	C-Building – 4th Floor, in front of BR-D
9:30–10:30		Opening Session	BR-D
10:30–11:00		<i>Coffee/Tea Break</i>	
11:00–12:30		Plenary session #1: Panel discussion “Towards harmonization of safety approaches: regulatory and industry perspectives”	BR-D
12:30–14:00		<i>Lunch Break</i>	
14:00–15:30	1	Regulatory & Licensing	BR-D
	2	Design Safety Features	CR2
	3	Safety Demonstration	CR7
	4	Simulation & Modelling	CR1
15:30–16:00		<i>Coffee/Tea Break</i>	
16:00–18:00	5	International Collaboration & Harmonization	BR-D
	6	Design Safety Features	CR2
	7	Safety Demonstration	CR7
	8	Simulation & Modelling	CR1
18:00–20:00		<i>Welcome Reception</i> <i>(Sponsored by Switzerland)</i>	C-Building – 4th Floor, in front of BR-D

Wednesday, 19 October 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30		Plenary session #2: Panel Discussion “Safety demonstrations for evolutionary and innovative reactors: Challenges and path forward”	BR-D
10:30–11:00		<i>Coffee/Tea Break</i>	
11:00–12:30	9	Regulatory & Licensing	BR-D
	10	Defence in Depth by Design	CR2
	11	Deterministic Safety Analysis	CR7
	12	Simulation & Modelling	CR1
12:30–14:00		<i>Lunch Break</i>	
14:00–15:30	13	Regulatory & Licensing	BR-D
	14	Transportable NPP Designs	CR2

Time	Session No.	Session Title / Break	Venue
	15	PSA & Risk-Informed Decision Making	CR7
	16	Simulation & Modelling	CR1
<i>15:30–16:00</i>		<i>Coffee/Tea Break</i>	
16:00–18:00	17	Safety Approach	BR-D
	18	Design Safety Features	CR2
	19	PSA & Risk-Informed Decision Making	CR7
	20	Panel Discussion on Simulation & Modelling	CR1

Thursday, 20 October 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30		Plenary session #3: Panel discussion “SMR and microreactors: Design challenges and path forward”	BR-D
<i>10:30–11:00</i>		<i>Coffee/Tea Break</i>	
11:00–12:30	21	Safety, Security and Safeguards Interfaces (3S)	BR-D
	22	Severe Accident Management	CR2
	23	PSA & Risk-Informed Decision Making	CR7
	24	Simulation & Modelling	CR1
<i>12:30–14:00</i>		<i>Lunch Break</i>	
14:00–15:30	25	Safety, Security and Safeguards Interfaces (3S)	BR-D
	26	Passive Systems	CR2
	27	PSA & Risk-Informed Decision Making	CR7
	28	Simulation & Modelling	CR1
<i>15:30–16:00</i>		<i>Coffee/Tea Break</i>	
16:00–18:00	29	Panel discussion on Safety, Security and Safeguards interfaces and challenges (3S)	BR-D
	30	Passive Systems	CR2
	31	PSA & Risk-Informed Decision Making	CR7
	32	Simulation & Modelling	CR1

Friday, 21 October 2022

Time	Session No.	Session Title / Break	Venue
09:00–10:30	33	External Hazards	CR2
	34	Multi-unit & Multi-module Risk Analysis	CR7
	35	Artificial Intelligence	CR1
<i>10:30–11:00</i>		<i>Coffee/Tea Break</i>	
11:00–12:00		Closing Session	BR-D

TUESDAY, 18 OCTOBER 2022

09:30-11:00 OPENING SESSION

BR-D (C-4th floor)

Time	Name	Designating Member State/Organization	Title
9:30–9:35	R. Grossi	Director General, IAEA	Welcoming address <i>(pre-recorded video)</i>
9:35–9:45	L. Evrard	Deputy Director General, Department of Nuclear Safety and Security, IAEA	Opening address from nuclear safety and security perspectives
	M. Chudakov	Deputy Director General, Department of Nuclear Energy, IAEA	Opening address from nuclear energy perspectives
9:45–9:55	R. Sardella	Conference President Switzerland, ENSI	Keynote address
9:55–10:30	S. Poghosyan	Conference Scientific Secretary (NS)	Overview of TIC2022 conference
	T. Jevremovic	Conference Scientific Secretary (NE)	
<i>10:30–11:00 Coffee/Tea Break</i>			

TUESDAY, 18 OCTOBER 2022

11:00-13:00 PLENARY SESSION #1: PANEL DISCUSSION BR-D (C-4th floor)
“TOWARDS HARMONIZATION OF SAFETY
APPROACHES: REGULATORY AND INDUSTRY
PERSPECTIVES”

Chairpersons: Kirsi Alm-Lytz, IAEA (SH-RAS)

Time	Name	Designating Member State/Organization	Title
11:00–11:10	R. Velshi	Canada/CNSC	The CNSC and the road to harmonization: a plan in action
11:10–11:20	S. Cadet-Mercier	France/ASN	EU initiatives in SMR licensing
11:20–11:30	M. Uesaka	Japan/JAEC	Harmonized power and non-power applications of next-generation advanced reactors
11:30–11:40	J. Ball	USA/GE-Hitachi	Design, licensing, and commercial progress
11:40–11:50	S. Bilbao y León	WNA	Supporting a new paradigm for reactor design licensing
<i>11:50–13:00 Panel discussion and Q&A</i>			
<i>13:00–14:00 Lunch Break</i>			

TUESDAY, 18 OCTOBER 2022

14:00–15:30 **SESSION 1:**
Regulatory & Licensing

BR-D (C-4th floor)

Chairpersons: **Vesselina Rangelova, OECD NEA**
Miguel Santini, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20		G. Stoppa	WENRA	WENRA safety objectives for Gen 3 plants and their applicability to SMRs
14:20–14:40	197	R. Awad	United Arab Emirates	Innovative regulatory approach for licensing a new nuclear power plant
14:40–15:00	111	F. Llizastigui	Cuba	Developing competence of new regulators to tackle SMRs
15:00–15:20	89	R. Vadi	Iran	A review of the requirements of the licensing procedure for the HTR-PM
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

TUESDAY, 18 OCTOBER 2022

14:00–15:30 **SESSION 2:**
Design Safety Features

CR2 (C-2nd floor)

Chairpersons: **Diego Lisbona, UK**
Alexei Miassoedov, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	26	E. Vlasenko	Russian Federation	Development of the first Russian research molten salt reactor for technology trial of minor actinides burning
14:20–14:40	121	B. Hu	China	Research on heat pipe conduction device of containment dome
14:40–15:00	122	M. Alaleeli	United Arab Emirates	Material performance metrics for accident tolerant fuel cladding in pressurised water reactors
15:00–15:20	119	K. Wang	China	Application of passive cold source system in nuclear power plant design
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

TUESDAY, 18 OCTOBER 2022

14:00–15:30 **SESSION 3:
Safety Demonstration**

CR7 (C-7th floor)

Chairpersons: ^v **David Holcomb, USA**
Martin Gajdos, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	30	^v W. Boyes	South Africa	A comprehensive thermo-hydraulic neutronic and safety analysis of a 100mwth pebble bed reactor core
14:20–14:40	112	^v R. Youngblood	United States of America	Application of objectives-driven assurance cases to system development in an evolving acquisition model
14:40–15:00	115	C. Wang	China	Internal flooding safety assessment of small reactor (ACP100) based on advanced 3D simulation software (CNIFA)
15:00–15:20	196	^v D. Holcomb	United States of America	Steps towards efficiently demonstrating adequate MSR safety
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

TUESDAY, 18 OCTOBER 2022

14:00–15:30 **SESSION 4:
Simulation & Modelling**

CR1 (C-2nd floor)

Chairpersons: **Ahmed Bentaib, France**
Nikoleta Morelova, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	104	W. Klein-Heßling	Germany	Regulatory perspectives on analytical codes and methods for advanced reactors
14:20–14:40	35	S. Gupta	Germany	IAEA simulation and experimental analyses network information system (SANIS) database: severe accidents experimental facilities, codes and education and training tools
14:40–15:00	56	S. Shevchenko	Russian Federation	The Russian approach to the regulatory review of computer programs used for multi-physics modelling and safety analysis of innovative nuclear installations
15:00–15:20	28	A. Bentaib	France	The OECD/NEA working group on the analysis and management of accidents (WGAMA): advances in codes and analyses to support safety demonstration of nuclear technology innovations
<hr/> <i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<hr/> <i>15:30–16:00 Coffee/Tea Break</i>				

TUESDAY, 18 OCTOBER 2022

16:00–18:00 **SESSION 5:** **BR-D (C-4th floor)**
International Collaboration &
Harmonization

Chairpersons: **Brian Smith, USA**
 Kirsi Alm-Lytz, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20		P. Calle-Vivies	IAEA, NSNI	NHSI update: regulatory track
16:20–16:40		S. Monti	IAEA, NENP	NHSI update: industry track
16:40–17:00	88	^v D. Williams	United States of America	U.S. and Canada cooperation on advanced reactor technologies - progress and challenges
17:00–17:20	109	A. Carson	WNA	A new paradigm for reactor design licensing – collaboration the key
<i>17:20–18:00 Session wrap-up by chairperson/Discussion</i>				
<i>18:00–20:00 Welcome Reception (Sponsored by Switzerland) – C building 4th floor coffee area</i>				

TUESDAY, 18 OCTOBER 2022

16:00–18:00 **SESSION 6:** **CR2 (C-2nd floor)**
Design Safety Features

Chairpersons: **Mirela Nitoi, Romania**
 Mikhail Lankin, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	29	^v W. Boyes	South Africa	Advanced micro reactor (AMR)
16:20–16:40	40	S. Flood	United Kingdom	U-Battery enhancing safety through innovative design
16:40–17:00	131	J. Takeuchi	Japan	Conceptual design of Mitsubishi small modular reactor
17:00–17:20	142	P. Calderoni	United States of America	The US DOE advanced sensor and instrumentation program
17:00–17:20	84	^v J. Seymour	United States of America	Technology-inclusive human-system considerations for advanced reactors
<i>17:40–18:00 Session wrap-up by chairperson/Discussion</i>				
<i>18:00–20:00 Welcome Reception (Sponsored by Switzerland) – C building 4th floor coffee area</i>				

TUESDAY, 18 OCTOBER 2022

16:00–18:00 **SESSION 7:**
Safety Demonstration

CR7 (C-7th floor)

Chairpersons: **Veronique Rouyer, OECD**
Yaolei Zou, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	124	L. Ammirabile	European Commission	GIF integrated safety assessment methodology (ISAM) and guidance for its implementation for novel advanced reactors
16:20–16:40	52	† S. Buchholz	Germany	Potential gaps in safety demonstration methods for LW-SMR identified in the ELSMOR project
16:40–17:00	73	Z. Hozer	OECD	Advances in knowledge, modelling and methods to support safety demonstration of conventional and advanced nuclear fuels in the OECD/NEA working group on fuel safety
17:00–18:00	<i>Session wrap-up by chairperson/Discussion</i>			
18:00–20:00	<i>Welcome Reception (Sponsored by Switzerland) – C building 4th floor coffee area</i>			

TUESDAY, 18 OCTOBER 2022

16:00–18:00 **SESSION 8:**
Simulation & Modelling

CR1 (C-2nd floor)

Chairpersons: **Ahmed Bentaib, France**
Nicole Virgili, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20		N. Virgili	IAEA, NPTDS	New agency initiative on fission-fusion technology interfaces
16:20–16:40	160	A. Lejosne	France	State of the art of IRSN's studies regarding fuel behaviour during LOCA
16:40–17:00	171	M. Liu	United States of America	Development of a structural integrity model for the steam generator tubing of the SMART100 small modular reactor
17:00–17:20	154	Q. Tran	Vietnam	Calculation of the neutron parameters for the accelerator-driven subcritical reactor using Pb and Pb-Bi mixtures as both target and coolant
17:20–17:40	86	R. Henry	Germany	The finite element neutronics code FENNECS for the safety assessment of SMRs, micro reactors and other innovative concepts
<i>17:40–18:00 Session wrap-up by chairperson/Discussion</i>				
<i>18:00–20:00 Welcome Reception (Sponsored by Switzerland) – C building 4th floor coffee area</i>				

WEDNESDAY, 19 OCTOBER 2022

9:00-10:30 **PLENARY SESSION #2: PANEL DISCUSSION** **BR-D (C-4th floor)**
“SAFETY DEMONSTRATIONS FOR
EVOLUTIONARY AND INNOVATIVE REACTORS:
CHALLENGES AND PATH FORWARD”

Chairpersons: Ana Gomez Cobo, IAEA (SH-SAS)

Time	Name	Designating Member State/Organization	Title
9:00–9:10	C. Viktorsson	UAE/FANR	Innovative Aspects for Safety Demonstration of an Evolutionary Design
9:10–9:20	R. Taylor	USA/USNRC	Modernizing NRC’s regulatory framework for safe deployment of advanced reactor technologies
9:20–9:30	^v H. Perry	UK/Rolls-Royce SMR	Licensing of new reactors including novel features
9:30–9:40	U. Stoll	Germany/ETSON	Safety demonstrations for evolutionary and innovative reactors: challenges and path forward from the TSO’s perspective
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<i>9:40–10:30 Panel discussion and Q&A</i>			
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<i>10:30–11:00 Coffee/Tea Break</i>			
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WEDNESDAY, 19 OCTOBER 2022

11:00–12:30 **SESSION 9:
Regulatory & Licensing**

BR-D (C-4th floor)

**Chairpersons: Surik Bznuni, Armenia
Miguel Santini, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	82	D. Fernández Lisboa	United Kingdom	Early assessment of innovative and advanced modular reactor (AMR) designs - regulatory process and insights from application to eight designs in the UK
11:20–11:40	156	A. Julio Gonzalez	Argentina	A response to the regulatory safety challenges for new reactor technologies
11:40–12:00	192	S. Bznuni	Armenia	Preliminary gap analysis of Armenian regulatory basis for the licensing of SMR type reactors
12:00–12:20	194	T. Tabikh	Canada	Approach to small modular and advanced reactor regulatory readiness
<hr/> <i>12:20–12:30 Session wrap-up by chairperson/Discussion</i>				
<hr/> <i>12:30–14:00 Lunch Break</i>				

WEDNESDAY, 19 OCTOBER 2022

11:00–12:30 **SESSION 10:**
Defence in Depth by Design

CR2 (C-2nd floor)

Chairpersons: Etienne Courtin, France
Laura Videla, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	152	M. Gimenez	Argentina	CAREM 25: An integral methodological approach to coherently internalize defence in depth in the design process
11:20–11:40	103	E. Courtin	France	Application of lines of defence (LoD) methodology for defence in depth implementation in the design of Gen4 reactors
11:40–12:00	83	^v D. Plummer	United Kingdom	Regulatory perspective on the application of the defence-in-depth concept to innovative reactor technologies
12:00–12:20	155	A. Liubarskiy	Russian Federation	Design measures aimed at eliminating cliff-edge effects as a necessary condition for effectiveness of plant defence-in depth
12:20–12:30	<i>Session wrap-up by chairperson/Discussion</i>			
12:30–14:00	<i>Lunch Break</i>			

WEDNESDAY, 19 OCTOBER 2022

11:00–12:30 **SESSION 11:**
Deterministic Safety Analysis

CR7 (C-7th floor)

Chairpersons: **Josef Misak, Czech Republic**
Martin Gajdos, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	3	J. Misak	Czech Republic	Issues and needs in applications of deterministic safety analysis for demonstrating safety of nuclear power plants
11:20–11:40	105	^v M. Polevoy	Russian Federation	Determination of temperature condition of absorbing elements for design basic conditions
11:40–12:00	114	^v H. Yamano	Japan	Numerical analyses of design extension conditions for sodium-cooled fast reactor designed in Japan
12:00–12:20	149	^v A. Samokhin	Russian Federation	Integrated design analyses of beyond-design-basis accidents at VVER-1200, including fuel severe damage
12:20–12:30	<i>Session wrap-up by chairperson/Discussion</i>			
12:30–14:00	<i>Lunch Break</i>			

WEDNESDAY, 19 OCTOBER 2022

11:00–12:30 **SESSION 12:
Simulation & Modelling**

CR1 (C-2nd floor)

Chairpersons: **Fulvio Mascari, Italy**
Hadid Subki, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	69	D. Grabaskas	United States of America	Using calibrated water data for preliminary validation of the SRT code for advanced reactors
11:20–11:40	106	R. Tanguy	WNA	Harmonizing mechanical codes & standards for innovative reactors
11:40–12:00	132	F. Mascari	Italy	Status of the independent validation of trace code for SMR safety analyses
12:00–12:20	8	^vM. Bedretdinov	Russian Federation	Thermal hydraulic codes validation for spent fuel pool conditions
<i>12:20–12:30 Session wrap-up by chairperson/Discussion</i>				
<i>12:30–14:00 Lunch Break</i>				

WEDNESDAY, 19 OCTOBER 2022

14:00–15:30 **SESSION 13:**
Regulatory & Licensing

BR-D (C-4th floor)

Chairpersons: **Simon Coenen, Belgium**
Volha Piotukh, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	42	N. Mughal	Pakistan	Regulatory experiences in licensing of advanced reactor technologies
14:20–14:40	140	S. Coenen	Belgium	Belgian approach for licensing new innovative reactors
14:40–15:00	163	P. Torano	Argentina	Argentine experience in the licensing of CAREM 25 prototype reactor
15:00–15:20	125	B. Elsheikh	Egypt	Regulatory challenges and licensing efforts for innovative molten salt reactors
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

WEDNESDAY, 19 OCTOBER 2022

14:00–15:30 **SESSION 14:**
Transportable NPP Designs

CR2 (C-2nd floor)

Chairpersons: **Daria Doronkova, Russia**
Mikhail Lankin, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20		M. Lankin	IAEA, NSNI	IAEA activities on design safety and security considerations for the TNPP
14:20–14:40	169	A. Bychkov	IAEA, INPRO	INPRO studies on transportable nuclear power plants and modules and key legal issues for their regulations
14:40–15:00	100	B. Cirera	Denmark	Safety approaches for the CMSR power barge
15:00–15:20	147	D. Doronkova	Russian Federation	Nuclear floating power unit: ensuring safety during transportation
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

WEDNESDAY, 19 OCTOBER 2022

14:00–15:30 **SESSION 15:
PSA & RIDM**

CR7 (C-7th floor)

**Chairpersons: Jeffery Julius, USA
Gaeul Choi, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	139	D. Grabaskas	United States of America	The ASME/ANS probabilistic risk assessment standard for advanced non-light water reactor nuclear power plants
14:20–14:40	128	J. Julius	United States of America	Changes in PSA models to support the licensing of advanced non-light water reactors
14:40–15:00	98	K. Ravichandran	Switzerland	Verification of SSC safety classification according to IAEA SSG-30 functional approach: benefits of DSA and PSA integration
15:00–15:20	126	D. Henneke	United States of America	Sodium reactor SSC classification using the licensing modernization project (LMP) process
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

WEDNESDAY, 19 OCTOBER 2022

14:00–15:30 **SESSION 16:
Simulation & Modelling**

CR1 (C-2nd floor)

Chairpersons: ^v **Plamen Petkov, Bulgaria**
Vladimir Kriventsev, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	59	^v T. Shibata	Japan	New test plan about safety features of HTGR by using HTRR in JAEA
14:20–14:40	190	D. LaBrier	United States of America	Revival of a practical sodium safety culture through experiential training
14:40–15:00	185	A. Farooq	Pakistan	Experimental investigation of iodine removal in a lab scale setup of filtered containment venting system
15:00–15:20	75	^v P. Petkov	Bulgaria	Experimental investigation of liquid Tin surface property safety features for potential application as a coolant in direct contact liquid metal fast reactors (DCLMFR) heat removal
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

WEDNESDAY, 19 OCTOBER 2022

16:00–18:00 **SESSION 17:**
Safety Approach

BR-D (C-4th floor)

Chairpersons: **Debbie Francis, France**
Javier Yllera, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	153	N. Mesmous	Canada	An innovative methodology for designing and regulating small and modular reactors
16:20–16:40	76	D. Francis	France	NUWARD safety approach, implementing SMR specifics and preparing international deployment
16:40–17:00	37	M. Nitoi	Romania	Towards innovative reactors licensing - ALFRED approach
17:00–17:20	99	B. Cirera	Denmark	Toward developing a novel combined Licensing & Safety approach for advanced nuclear reactors based on the international maritime and nuclear safety framework. Case study of the CMSR Power Barge
<i>17:20–18:00 Session wrap-up by chairperson/Discussion</i>				

WEDNESDAY, 19 OCTOBER 2022

16:00–18:00 **SESSION 18:**
Design Safety Features

CR2 (C-2nd floor)

Chairpersons: **Diego Lisbona, UK**
Simone Massara, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	60	S. Kubo	Japan	Safety design approaches for future SFRs in Japan
16:20–16:40	118	J. Zhu	China	Standard study of the technology and safety performance evaluation on emergency core cooling system strainer
16:40–17:00	107	^v M. Tarantino	European Commission	GIF LFR safety design criteria
17:00–17:20	127	S. Futagami	Japan	Development of safety design criteria and safety design guidelines for Generation IV sodium-cooled fast reactors
17:20–17:40	144	C. Stansbury	United States of America	An integrated design approach to address safety of the Westinghouse LFR: An innovative pool-type, liquid lead-cooled fast reactor
<i>17:40–18:00 Session wrap-up by chairperson/Discussion</i>				

WEDNESDAY, 19 OCTOBER 2022

16:00–18:00 **SESSION 19:
PSA & RIDM**

CR7 (C-7th floor)

Chairpersons: **Irina Kuzmina, Russia**
Martin Gajdos, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	193	D. Henneke	United States of America	Risk-informed safety strategy and fault evaluation for the GE Hitachi BWRX-300 advanced reactor
16:20–16:40	202	I. Kuzmina	Russian Federation	Insights on application of some probabilistic considerations for licensing of new nuclear power plants
16:40–17:00	41	N. Harman	United Kingdom	Evolution in level 3 probabilistic safety assessment methodology for the UK-EPR
17:00–17:20	164	† F. Llorenete	Argentina	Regulatory criteria proposal for the mission time of the sequences of the event trees of the L1 PSA for new nuclear power reactors
<i>17:20–18:00 Session wrap-up by chairperson/Discussion</i>				

WEDNESDAY, 19 OCTOBER 2022

16:00–18:00 **SESSION 20:**
Panel Discussion on Simulation &
Modelling

CR1 (C-2nd floor)

Chairpersons: **Tatjana Jevremovic, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title
16:00–16:20	92	† H. Sanchez-Mora	Mexico	BWR severe accident uncertainty and sensitivity analysis in the framework of the IAEA CRP I31033
16:20–16:40	146	N. Ryzhov	Russian Federation	Uncertainty and sensitivity analysis of severe accidents simulations at VVER in the framework of the IAEA CRP I31033
16:40–17:00	157	† P. Hernan Ilardo	Argentina	Development of uncertainty and sensitivity approaches for the analysis of severe accidents in a small modular reactor
17:00–17:20	151	S. Petukhov	Canada	Uncertainty and sensitivity analysis of a CANDU 6 plant by means of severe accident codes in the framework of the IAEA CRP I31033: preliminary results
<i>17:20–18:00 Session wrap-up by chairperson/Discussion</i>				

THURSDAY, 20 OCTOBER 2022

9:00-10:30 **PLENARY SESSION #3: PANEL DISCUSSION** **BR-D (C-4th floor)**
“SMR AND MICROREACTORS: DESIGN CHALLENGES AND PATH FORWARD”

Chairpersons: **Aline des Cloizeaux (DIR-NENP, IAEA)**

Time	Name	Designating Member State/Organization	Title
9:00–9:10	M. Nichol	USA/NEI	U.S. design and safety advancements
9:10–9:20	F. Dermarckar	Canada/AECL	SMRs: overcoming the design challenges
9:20–9:30	S. Pedre	Argentina/CAREM	CAREM SMR status and challenges moving forward
9:30–9:40	D. Francis	France/EDF	Nuclear safety and SMRs, safety in proportion
9:40–10:30 <i>Panel discussion and Q&A</i>			
10:30–11:00 <i>Coffee/Tea Break</i>			

THURSDAY, 20 OCTOBER 2022

11:00–12:30 **SESSION 21:** **BR-D (C-4th floor)**
Safety, Security and Safeguards Interfaces
(3S)

Chairpersons: **† Duncan Barley, UK**
Jeremy Whitlock, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20		J. Whitlock	IAEA, SGCP	Safeguards by design for SMRs
11:20–11:40	70	D. Kovacic	United States of America	Considering international safeguards during the design of advanced reactors and interfaces with safety and security
11:40–12:00	81	† D. Barley	United Kingdom	Safety, security and safeguards working together in the modernised generic design assessment
12:00–12:20	184	A. Williams	United States of America	Lessons learned from exploring safety, security, and safeguards interfaces in advanced and small modular reactor technologies
12:20–12:30 <i>Session wrap-up by chairperson/Discussion</i>				

THURSDAY, 20 OCTOBER 2022

11:00–12:30 **SESSION 23:
PSA & RIDM**

CR7 (C-7th floor)

Chairpersons: **Elisabeth Duvillard, France
Jorge Luis Hernandez, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	134	^v Y. Okano	Japan	ARKADIA-Safety, an overall risk assessment simulation tool for integrated risk-informed and performance-based decision making
11:20–11:40	93	^v T. Sofu	United States of America	GIF framework for risk-informed approach for design and licensing of novel advanced reactors
11:40–12:00	58	S. M. Hess	United States of America	Integrated RAMI for advanced nuclear power plants
12:00–12:20	175	E. Duvillard	France	Incorporation of passive system functional reliability in probabilistic safety assessment
<i>12:20–12:30 Session wrap-up by chairperson/Discussion</i>				
<i>12:30–14:00 Lunch Break</i>				

THURSDAY, 20 OCTOBER 2022

11:00–12:30 **SESSION 24:
Simulation & Modelling**

CR1 (C-2nd floor)

Chairpersons: ^v **Sebastian Buchholz, Germany**
Simone Massara, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
11:00–11:20	45	^v E. Soldatov	Russian Federation	System of design codes for the computational modelling of the lead-cooled fast reactors
11:20–11:40	51	^v S. Buchholz	Germany	Recent improvements of ATHLET models for passive safety features of LW-SMR
11:40–12:00	27	^v P. Lien	United States of America	TRACE confirmatory analysis model development and validation in NuScale design
12:00–12:20	159	M. Martin	United Kingdom	Enhanced safety of current and future nuclear plant using integrated mechanistic models and data-centric assessment of risk
<i>12:20–12:30 Session wrap-up by chairperson/Discussion</i>				
<i>12:30–14:00 Lunch Break</i>				

THURSDAY, 20 OCTOBER 2022

14:00–15:30 **SESSION 25:**
Safety, Security and Safeguards Interfaces
(3S)

BR-D (C-4th floor)

Chairpersons: **Luca Ammirabile, E.C**
 Heather Loony, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	173	C. Scherer	IAEA, INPRO	Using INPRO methodology for a holistic sustainability assessment in Safety, Safeguards and Security (3S)
14:20–14:40	123	L. Ammirabile	European Commission	Application of the objective provision tree tool for the safety-security interface assessment
14:40–15:00	25	† I. Garcia	United States of America	Impact of cyber security features on digital instrumentation and Control Systems Important to Safety at Nuclear Power Plants – Evaluation Framework
15:00–15:20	24	† I. Garcia	United States of America	U.S.A. Regulatory efforts for cybersecurity of small modular reactors/advanced reactors
15:20–15:30	<i>Session wrap-up by chairperson/Discussion</i>			
15:30–16:00	<i>Coffee/Tea Break</i>			

THURSDAY, 20 OCTOBER 2022

14:00–15:30 **SESSION 26:**
Passive Systems

CR2 (C-2nd floor)

Chairpersons: **Chukwudi Azih, Canada**
Mikhail Lankin, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	54	^v A. Samokhin	Russian Federation	Evaluation of the innovative steam generators passive heat removal system efficiency for VVER-1200 power units in beyond design basis accidents conditions
14:20–14:40	133	P. Vácha	Czech Republic	Innovative passive safety features of the HeFASTo reactor concept
14:40–15:00	199	Y. Yuan	China	An experimental program for ACP100 passive containment air cooling system
15:00–15:20	189	C. Azih	Canada	Development of experimental and modelling capabilities and tools at Canadian Nuclear Laboratories for investigations on inherent and passive safety designs of advanced reactor concepts
<hr/>				
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
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<i>15:30–16:00 Coffee/Tea Break</i>				
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THURSDAY, 20 OCTOBER 2022

14:00–15:30 **SESSION 27:
PSA & RIDM**

CR7 (C-7th floor)

Chairpersons: **Luke Lebel, Canada**
 Jorge Luis Hernandez, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	36	N. Xue	China	Application of Probabilistic method in the EPZ determination of SMR
14:20–14:40	94	S. Vasavada	United States of America	Insights for risk-informed approaches to sizing emergency planning zones
14:40–15:00	162	L. Lebel	Canada	Challenges in defining emergency planning zones for small modular reactors and advanced reactors: review of Canadian practices and research at Canadian nuclear laboratories
15:00–15:20	135	E. Schrader	United States of America	An alternative emergency preparedness regulatory framework for small modular reactors and other new technologies
<i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<i>15:30–16:00 Coffee/Tea Break</i>				

THURSDAY, 20 OCTOBER 2022

14:00–15:30 **SESSION 28:
Simulation & Modelling**

CR1 (C-2nd floor)

Chairpersons: Victor Sanchez Espinoza, Germany
Eve-Lyne Pelletier, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
14:00–14:20	161	C. Herer	France	Natural circulation HERO-2 experiment simulations in the EU funded PASTEL project
14:20–14:40	91	^v S. Lu	United States of America	Long term effects and numerical simulation of radiolytic gas, non-condensable gas and boron transport for small modular light water reactors
14:40–15:00	188	^v K. Podila	Canada	Development of multiphysics modelling capabilities for small modular reactors in Canada
15:00–15:20	39	V. Espinoza	Germany	Status of the H2020 McSAFER project-experimental and analytical investigations for the safety evaluation of water-cooled SMRs
<hr/> <i>15:20–15:30 Session wrap-up by chairperson/Discussion</i>				
<hr/> <i>15:30–16:00 Coffee/Tea Break</i>				

THURSDAY, 20 OCTOBER 2022

16:00–18:00 **SESSION 29:**
Discussion Session on Safety, Security
and Safeguards (3S) interfaces and
challenges

BR-D (C-4th floor)

Chairpersons: **Shahen Poghosyan, IAEA**
 Jeremy Whitlock, IAEA

Time	Name	Designating Member State/Organization	Title
16:00–16:10	S. Poghosyan	IAEA, NSNI	3S interfaces and challenges for SMRs and other innovative reactors
16:10–16:20	C. Viktorsson	UAE/FANR	3S integration in UAE nuclear regulation
16:20–16:30	R. Jammal	Canada/CNSC	The CNSC and the 3S – a full cycle regulator
16:30–16:40	A. Iyengar	USA/DOE	Perspectives on 3S for Advanced Reactors
16:40–16:50	H. Looney	IAEA, NSNS	3S interfaces: security perspective
16:50–17:00	J. Whitlock	IAEA, SGCP	3S interfaces: safeguards perspective
17:00–18:00	<i>Panel discussion</i>		

THURSDAY, 20 OCTOBER 2022

16:00–18:00 **SESSION 30:
Passive Systems**

CR2 (C-2nd floor)

**Chairpersons: Finis Southworth, USA
Mikhail Lankin, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	57	F. Southworth	United States of America	The effect of intermittent passive heat removal on HTGR conduction cooldown performance
16:20–16:40	148	O. Tiurikov	Russian Federation	Experimental and computational research of the containment passive emergency pressure decrease system in the floating NPP with reactor KLT-40S and universal nuclear-powered icebreaker with reactor RITM-200
16:40–17:00	186	F. Mezio	Argentina	Uncertainty assessment of a CAREM 25 passive safety system: lifecycle management study case
17:00–17:20	129	M. Ilyas	Pakistan	Thermal hydraulic analysis of a novel concept for a passive containment cooling system
17:20–17:40		N. Sungur	MSCFP	Assessment of VVER-1200 (V-491) core cooling reliability during the operation of passive heat removal system via steam generator
<i>17:40–18:00 Session wrap-up by chairperson/Discussion</i>				

THURSDAY, 20 OCTOBER 2022

16:00–18:00 **SESSION 31:
PSA & RIDM**

CR7 (C-7th floor)

**Chairpersons: Dennis Henneke, USA
Martin Gajdos, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	97	K. Ravichandran	Switzerland	Synergizing deterministic and probabilistic safety analyses - a holistic approach to safety at Leibstadt NPP, Switzerland
16:20–16:40	85	B. Sayed Muhammad Wassem	Pakistan	Application of the level-1 PSA model in various regulatory processes and challenges faced during their execution
16:40–17:00	110	^v A. Gilbertson	United States of America	U.S. Nuclear Regulatory Commission guidance on the acceptability of probabilistic risk assessment used in regulatory decision making for non-light-water reactors
17:00–17:20	168	G. Petkov	Bulgaria	Contextual integrated risk-informed decision-making
<i>17:20–18:00 Session wrap-up by chairperson/Discussion</i>				

THURSDAY, 20 OCTOBER 2022

16:00–18:00 **SESSION 32:**
Simulation & Modelling

CR1 (C-2nd floor)

Chairpersons: **† Yury Shmelkov, Russia**
Lara Peguero, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
16:00–16:20	67	† Y. Shmelkov	Russian Federation	Practical application of sensitivity and uncertainty analyses in the analysis of radiological consequences for BDBA at modern NPPs with VVER
16:20–16:40	137	† P. Kanin	Russian Federation	Practical application of uncertainty and sensitivity analysis methodologies for the analysis of severe accidents in VVER reactors
16:40–17:00	95	K. Ahn	Republic of Korea	Uncertainty and sensitivity Analysis of the PWR and SMR by means of severe accident codes in the framework of the IAEA CRP I31033
17:00–17:20	33	A. Aboshosha	Egypt	Computer aided design and simulation of professional hybrid electrical energy backup system for nuclear facilities
17:20–17:40		V. Skliarenko	MSCFP	Chinese supercritical water reactor CSR-1000: Safety features and exploration of hydraulic resistance coefficient correlations
17:40–18:00	<i>Session wrap-up by chairperson/Discussion</i>			

FRIDAY, 21 OCTOBER 2022

9:00–10:30

SESSION 33:
External Hazards

CR2 (C-2nd floor)

Chairpersons: **Abdallah Amri, France**
Paolo Contri, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
9:00–9:20		L. Micewski	IAEA, NSNI	External hazards related issues in SMR siting and design
9:20–9:40	64	A. Amri	France	Main lessons learned from the Clearinghouse topical operational experience report (TOER) on external hazards and their possible use for the design of new reactors
9:40–10:00	78	K. Deknopper	Belgium	External hazard challenges for evolutionary and innovative reactor designs
10:00–10:20	181	D. Grabaskas	United States of America	The regulatory treatment of low frequency external events as part of a risk-informed performance-based approach
<i>10:20–10:30 Session wrap-up by chairperson/Discussion</i>				
<i>10:30–11:00 Coffee/Tea Break</i>				

FRIDAY, 21 OCTOBER 2022

9:00–10:30

SESSION 34:
Multi-unit & Multi-module Risk Analysis

CR7 (C-7th floor)

Chairpersons: **Dennis Henneke, USA**
Yaolei Zou, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
9:00–9:20		S. Poghosyan	IAEA, NSNI	IAEA methodology on multi-unit probabilistic safety assessment
9:20–9:40	145	D. Henneke	United States of America	Multi-module probabilistic safety assessment (PSA) for the PRISM sodium-cooled fast reactor
9:40–10:00	66	A. Qavi	Pakistan	Probabilistic safety assessment of multi-unit site of nuclear power plant
<i>10:00–10:30 Session wrap-up by chairperson/Discussion</i>				
<i>10:30–11:00 Coffee/Tea Break</i>				

FRIDAY, 21 OCTOBER 2022

9:00–10:30

**SESSION 35:
Artificial Intelligence**

BR-D (C-4th floor)

**Chairpersons: Jorge Luis Hernandez, IAEA
Alina Contantin, IAEA**

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper
9:00–9:20		T. Jevremovic Y. Kim	IAEA, NPTDS IAEA, NSNI	IAEA activities on artificial intelligence (joint presentation by IAEA NE and IAEA NS)
9:20–9:40	63	A. Lye	United Kingdom	Probabilistic AI for prediction of material properties in nuclear reactors
9:40–10:00	170	G. Ma	China	The design and application of the intelligent accident analysis system for the nuclear power plant
10:00–10:20	176	S. Meschini	Italy	Machine learning applications for nuclear safety: An overview
10:20–10:30	<i>Session wrap-up by chairperson/Discussion</i>			
10:30–11:00	<i>Coffee/Tea Break</i>			

FRIDAY, 21 OCTOBER 2022

09:30–11:00 **CLOSING SESSION**

BR-D (C-4th floor)

Time	Name	Designating Member State/Organization	Title
11:00–11:30	S. Poghosyan T. Jevremovic	Conference Scientific Secretary (NS) Conference Scientific Secretary (NE)	Summary remarks on plenaries and panel discussions
11:30–11:50	R. Sardella	Conference President Switzerland, ENSI	TIC2022 summary remarks, main outcomes and conclusions
11:55–11:59	A. Bradford A. des Cloizeaux	IAEA, DIR-NSNI IAEA, DIR-NENP	Closing remarks
12:00	<i>Adjourn</i>		

E-Session (posters)

Screen No.	Paper No.	Authors	Designating Member State/Organization	Title of Paper
1	53	A. Shapovalov	Russian Federation	Results of a quantitative comparison of different nuclear fuel cycles by their safety
2	71	C. Wang	China	The consideration of the independence of DID and its application in HPR1000 design
3	101	A. Izhutov	Russian Federation	Advanced program for irradiation testing of fuel and materials to justify safety of evolutionary and innovative designs for nuclear reactors
4	167	P. Gyan	Ghana	Multi agent systems application concept for enhancing reactor safety and operations in an innovative SMR
5	178	E. Miralles-Dolz	United Kingdom	Reliability-based optimisation with total Monte Carlo
6	180	E. Roumili	France	Easing the nuclear safety demonstration integrated into projects using MBSE and artificial intelligence
7	183	I. Syilmi Qaira	Indonesia	Remote imaging of the IoT integrated smartphone display for analysis of leaks in reactor pipes and vessels as an initial command for complete automatic shutdown mode in the small modular reactor plant
8	187	E. Torres	Canada	Advanced computer vision machine learning for automatic microstructural analysis

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

STI/PUB/1978, [IAEA Safety Standards Series](#) No. SSG-69, Publ 2021
[Equipment Qualification for Nuclear Installations | IAEA](#)

STI/PUB/1949, [IAEA Safety Standards Series](#) No. SSG-67, Publ 2021
[Seismic Design for Nuclear Installations | IAEA](#)

STI/PUB/1968, [IAEA Safety Standards Series](#) No. SSG-68, Publ 2021
[Design of Nuclear Installations Against External Events Excluding Earthquakes | IAEA](#)

STI/PUB/1893, Safety Reports Series No. 103, Publ 2020
[Methodologies for Seismic Safety Evaluation of Existing Nuclear Installations | IAEA](#)

STI/PUB/1991, IAEA Safety Standards Series No. SSG-77, Publ 2022
[Protection Against Internal and External Hazards in the Operation of Nuclear Power Plants | IAEA](#)

STI/PUB/2024, IAEA Safety Standards Series No. SSG-73, Publ 2022
[Core Management and Fuel Handling for Nuclear Power Plants | IAEA](#)

STI/PUB/1950, IAEA Safety Standards Series No. SSG-9 (Rev. 1), Publ 2022
[Seismic Hazards in Site Evaluation for Nuclear Installations | IAEA](#)

STI/PUB/1968, IAEA Safety Standards Series No. SSG-68, Publ 2022
[Design of Nuclear Installations Against External Events Excluding Earthquakes | IAEA](#)

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[Protection against Internal Hazards in the Design of Nuclear Power Plants | IAEA](#)

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Safety Reports Series No. 123, Publ 2022 [IAEA Preprint]

[Safety Report on Applicability of Safety Standards to Non-Water-Cooled Reactors and Small Modular Reactors](#)

Safety Reports Series No. 110, Publ 2021 [IAEA Preprint]

[Multi-unit Probabilistic Safety Assessment](#)

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[Approach and Methodology for the Development of Regulatory Safety Requirements for the Design of Advanced Nuclear Power Reactors: Case Study on Small Modular Reactors](#)

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[Lessons Learned in Regulating Small Modular Reactors](#)

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[Current Approaches to the Analysis of Design Extension Conditions with Core Melting for New Nuclear Power Plants](#)

IAEA TECDOC Series No. 1937, Publ 2020

[Probabilistic Safety Assessment for Seismic Events](#)

IAEA TECDOC Series No. 1936, Publ 2020

[Applicability of Design Safety Requirements to Small Modular Reactor Technologies Intended for Near Term Deployment](#)

Nuclear Energy Series No. NR-T-1.10 (Rev. 1) [Nuclear reactor technology assessment for near term deployment \(iaea.org\)](#)

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26-28 October, Washington DC, United States of America

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31 October-4 November, Vienna, Austria

Fifth International Conference on Nuclear Power Plant Life Management (PLIM) (CN-297)
28 November – 2 December, Vienna, Austria

International Conference on Integrated Medical Imaging in Cardiovascular Diseases (IMIC-2022) (CN-304)
13-16 December, Vienna, Austria

2023

International Conference on Effective Nuclear and Radiation Regulatory Systems (CN-309)
20-23 February, Abu Dhabi, United Arab Emirates

International Symposium on Trends in Radiopharmaceuticals (ISTR-2023) (CN-310)
17-21 April, Vienna, Austria

International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Innovation for Sustaining Future Resources and Production (URAM-2023) (CN-311)
8-12 May, Vienna, Austria

International Conference on Nuclear Decommissioning: Addressing the Past and Ensuring the Future (CN-312)
15-19 May, Vienna, Austria

International Conference on Computer Security in the Nuclear World: Security for Safety (CN-313)
19-23 June, Vienna, Austria

International Symposium on Isotope Hydrology (CN-320)
3-7 July, Vienna, Austria

Second International Conference on Climate Change and the Role of Nuclear Power (CN-315)
9-13 October, Vienna, Austria

29th IAEA Fusion Energy Conference (CN-316)
16-21 October, London, United Kingdom

International Conference on Waste and Environmental Safety: Integrated Approach to Strengthening Sustainable Development (CN-318)
6-10 November, Vienna, Austria

International Conference on Research Reactors: Achievements, Experience and the Way to a Sustainable Future (CN-319)
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