

International Conference on Research Reactors:

**Achievements, Experience, and the Way to a
Sustainable Future**

November 11th – 15th, 2024

PROGRAMME

Organized by the
International Atomic Energy Agency (IAEA)

IAEA Headquarters Vienna, Austria

Programme Committee:

K. Toukan, Jordan

G. Storr, Australia

J. Perrotta, Brazil

S. Kim, Republic of Korea

K. du Bruyn, South Africa

L.-W. Hu, USA

IAEA Secretariat:

Scientific Secretaries: D. Ridikas
P. Chakrov
A. Shokr

Event Organizer: T. Danaher
Administrative Support: T. Kornelyuk
M. Romero
E. Vargas

Location of the Event:

International Atomic Energy Agency
Vienna International Centre (VIC)
Building M, BRB/M1

Wagramer Strasse 5
A-1400 Vienna, Austria
Tel.: (+43 1) 2600 21330

Working Language: English

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

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TIMETABLE

Monday, 11 November 2024

Time	Session No.	Session Title / Break	Venue
10:30–11:00		Conference Opening	Board Room B/M1
11:00–13:00	1A	Utilization and Applications	Board Room B/M1
13:00–14:00		<i>Lunch Break</i>	
14:00–15:30	3A	New Research Reactor Programmes	Board Room B/M1
15:30–16:00		<i>Coffee/Tea Break and Poster Session A</i>	
16:00–18:00	2A	Operation and Maintenance	Board Room B/M1
18:00–19:30		<i>Welcome Reception</i>	M-Building – Ground Floor

Tuesday, 12 November 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:00	4A	Safety of Research Reactors	Board Room B/M1
10:00–10:30		<i>Coffee/Tea Break and Poster Session A</i>	
10:30–12:30	4B	Safety of Research Reactors	Board Room B/M1
12:30–13:30		<i>Lunch Break</i>	
13:30–15:00	1B	Utilization and Applications	Board Room B/M1
15:00–15:30		<i>Coffee/Tea Break and Poster Session A</i>	
15:30–16:00		Poster Session A	M Building Corridor
16:00–17:30	2B	Operation and Maintenance	Board Room B/M1
17:30–18:30	Side Event 1	The Role of Research Reactors in Advancing Sustainable Development Goals	Board Room B/M1
17:30–18:30	Side Event 2	Nuclear Security Considerations for Research Reactors	M Building/M3

Wednesday, 13 November 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:00	3B	New Research Reactor Programmes	Board Room B/M1
10:00–10:30		<i>Coffee/Tea Break and Poster Session B</i>	
10:30–12:30	5A	Security of Research Reactors	Board Room B/M1
12:30–13:30		<i>Lunch Break</i>	
13:30–15:00	4C	Safety of Research Reactors	Board Room B/M1
15:00–15:30		<i>Coffee/Tea Break and Poster Session B</i>	
15:30–17:30	6A	Research Reactor Fuel Management	Board Room B/M1
17:30–18:30	Side Event 3	Capacity Building Based on Research Reactor Centers	Board Room B/M1
17:30–18:30	Side Event 4	Safety Considerations in Use of Advanced and Innovative Technology in Research Reactors	M Building/M3

Thursday, 14 November 2024

Time	Session No.	Session Title / Break	Venue
08:30–10:00	4D	Safety of Research Reactors	Board Room B/M1
10:00–10:30		<i>Coffee/Tea Break and Poster Session B</i>	
10:30–11:00		Poster Session B	M Building Corridor
11:00–12:30	7A	<i>Common Management Considerations</i>	Board Room B/M1
12:30–13:30		<i>Lunch Break</i>	
13:30–15:00	1C	Utilization and Applications	Board Room B/M1
15:00–15:30		<i>Coffee/Tea Break and Poster Session B</i>	
15:30–17:30	2C	Operation and Maintenance	Board Room B/M1
17:30–18:30	Side Event 5	Women at Research Reactors: Challenges and Opportunities	Board Room B/M1

Friday, 15 November 2024

Time	Session No.	Session Title / Break	Venue
08:30– 10:00	1D	Utilization and Applications	Board Room B/M1
10:00– 10:30		<i>Coffee/Tea Break</i>	
10:30– 11:30	7B	Common Management Considerations	Board Room B/M1
11:30– 12:30	<i>Panel Session</i>	<i>Summary Discussion, Conclusions and Recommendations</i>	Board Room B/M1
12:30– 13:00	Closing Session	Conference Closing	Board Room B/M1

MONDAY, 11 NOVEMBER 2024

10:30-11:00 OPENING SESSION

(Board Room B/M1)

Time	Name	Designating Member State/Organization	Title
10:30– 10:45	R. Grossi	Director General, IAEA	Opening Remarks
10:45– 10:50	K. Toukan	Conference Chair, Jordan Atomic Energy Agency (JAEC)	Conference Chair Remarks
10:50– 11:00	D. Ridikas P. Chakrov A. Shokr	Scientific Secretaries, IAEA	Administrative Remarks

MONDAY, 11 NOVEMBER 2024

11:00–13:00 **SESSION 1A:**
Utilization and Applications

(Board Room B/M1)

Chairpersons: **G. Bignan, France**
 D. Wisnubroto, Indonesia

Time	Paper No.	Name	Designating Member State/Organization	Title
11:00–11:25	274	D. Ridikas	IAEA	IAEA Activities in Support of Sustainable Utilization and Applications of Research Reactors
11:25–11:40	147	M. Kim	Republic of Korea	Current Status of the HANARO Utilization
11:40–11:55	250	K. Eberhardt	Germany	The Research Reactor TRIGA Mainz – Since More than 58 Years a Strong and Versatile Neutron Source for Science and Education
11:55–12:10	190	K. Unlu	USA	New Innovative Developments and Sustainable Utilizations of the Penn State Breazeale Reactor
12:10–12:25	89	S. Bustamante	Chile	Chilean Experience Post IRRUR Mission
12:25–12:40	35	A. Shaimerdenov	Kazakhstan	R&D Plan for the Development of BNCT at the WWR-K
12:40–13:00		Q&A		
13:00–14:00 Lunch Break				

MONDAY, 11 NOVEMBER 2024

14:00–15:30 **SESSION 3A:**
New Research Reactor Programmes

(Board Room B/M1)

Chairpersons: **K. Tiyaapun, Thailand**
 A. Alomari, Saudi Arabia

Time	Paper No.	Name	Designating Member State/Organization	Title
14:00–14:20	276	A. Sitnikov	IAEA	IAEA Support for New Research Reactor Programmes: Nuclear Infrastructure and Capacity Building
14:20–14:40	130	M. Kim	Republic of Korea	Status of KJRR Project in Korea
14:40–14:55	2	G. Bignan	France	Jules Horowitz Reactor (JHR) Reactor): A Future International Material Test Reactor in Support to Nuclear Industry, Regulators, and R&D Institutes: Status as of MID-2024 Following Major Reassessment of the Project
14:55–15:10	52	Y. Fetisova	Russia	MBIR – The Most High-Flux Reactor in the World and a Unique Platform for International Scientific Cooperation
15:10–15:30	Q&A			
15:30–16:00 Poster Session A and Coffee Break				

MONDAY, 11 NOVEMBER 2024

16:00–18:00 **SESSION 2A:**
Operation and Maintenance

(Board Room B/M1)

Chairpersons: **S. O’Kelly, USA**
 P. Chakrov, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
16:00–16:25	277	R. Mazzi	IAEA	Navigating O&M Challenges: IAEA's Strategic Support for Research Reactors
16:25–16:40	123	J. Perrotta	Brazil	Commissioning Experiments of the New Core of the IPEN/MB-01 Research Reactor with Plate-Type Fuel Elements
16:40–16:55	257	A. Salvini	Italy	Integrated Management System Applied to a Low Power Research Reactor Facility in Operation: Lesson Learned and Future Perspective
16:55–17:10	191	K. Tiyaapun	Thailand	Ageing Management Experienced in Refurbishment of TRR-1/M1 Reactor Pool
17:10–17:25	7	D. Stanciu	Romania	Experience with Major Repairs and Refurbishment at TRIGA 14MW Open Pool Reactor
17:25–17:40	87	M. Ali	Pakistan	Maintenance, Periodic Testing, and In-Service Inspection at Pakistan Research Reactor-1 (PARR-1)
17:40–18:00	Q&A			
18:00–19:30 Reception				

TUESDAY, 12 NOVEMBER 2024

08:30–10:00

SESSION 4A:
Safety of Research Reactors

(Board Room B/M1)

Chairpersons:

A. Shokr, IAEA
R. Abu-Saleem, Jordan

Time	Paper No.	Name	Designating Member State/Organization	Title
08:30–08:55	278	A. Shokr	IAEA	IAEA Programme on Safety of Research Reactors: Achievements, Experience and Way Forward
08:55–09:10	41	O. Kukhotskyi	Ukraine	Safety and Current Status of Ukrainian Research Nuclear Reactors
09:10–09:25	106	R. Amorosi	France	The Specificities of the ITER Reactor (Regulatory Oversight of Research Reactors, including Licensing Process and Inspection Programs)
09:25–09:40	114	D. Mosbah	AAEA	Challenges of Research Reactors Safety and Optimal Utilization in Arab Countries
09:40–10:00	Q&A			
10:00–10:30 Poster Session A and Coffee Break				

TUESDAY, 12 NOVEMBER 2024

10:30–12:30 **SESSION 4B:**
Safety of Research Reactors

(Board Room B/M1)

Chairpersons: **E. Grolleau, France**
 S.J. Kim, Republic of Korea

Time	Paper No.	Name	Designating Member State/Organization	Title
10:30–10:55	269	S. Kanamori	France	Periodic Safety Review of Research Reactors in France
10:55–11:10	171	L. Claramonte	Argentina	Best Estimate Deterministic Modeling Approach for Probabilistic Safety Assessment support
11:10–11:25	244	R. Abu-Saleem	Jordan	EMRC's Review and Assessment of Research Reactor Safety
11:25–11:40	226	M. Gimenez	Argentina	Safety classification: a methodology based on the internalization of defense in depth concept and a case of study applied to a research reactor
11:40–11:55	37	J. Kalowski	Poland	Lessons learned from design and implementation of safety classification procedure for Maria Research Reactor
11:55–12:10	155	D. Merrouche	Algeria	Verification of Safety Improvement of a Research Reactor
12:10–12:30	Q&A			
12:30–13:30	Lunch Break			

TUESDAY, 12 NOVEMBER 2024

13:30–15:00 **SESSION 1B:**
Utilization and Applications

(Board Room B/M1)

Chairpersons: **N. Bouzerkri, Morocco**
 P. Cantero, Argentina

Time	Paper No.	Name	Designating Member State/Organization	Title
13:30–13:55	279	M. Hawari	Jordan	Towards Excellence in Sustainable Operations: Efficient Utilization at the Jordan Research and Training Reactor
13:55-14:10	53	S. Zhong	China	Progress in Construction of Neutron Stress Diffractometer "Hetu" and Small Neutron Scattering Spectrometer "Luoshu" of Shanghai Jiao Tong University
14:10–14:25	194	M. Reichenberger	USA	Managing an Analytical Chemistry and Radiation Measurements Laboratory at a Nuclear Reactor, Where Operations and Research Collide
14:25–14:40	178	M. Dastjerdi	Iran	Recent Developments in ISFAHAN MNSR Applications
14:40–15:00	Q&A			
15:00–15:30	Poster Session A and Coffee Break			
15:30–16:00	Poster Session A – Check Annex I			

TUESDAY, 12 NOVEMBER 2024

16:00–17:30 **SESSION 2B:**
Operation and Maintenance

(Board Room B/M1)

Chairpersons: **A. Pichlmaier, Germany**
 F. Kungurov, Uzbekistan

Time	Paper No.	Name	Designating Member State/Organization	Title
16:00–16:25	281	S. O’Kelly	USA	Major Refurbishment of Advanced Test Reactor
16:25–16:40	141	T. Said	Algeria	Prognosis and Health Management (PHM) of Electrical rotating equipment in nuclear research reactors: ES-Salam Case Study
16:40–16:55	5	S. Sriyono	Indonesia	Structure, system, and components integrity detection on the primary system of RSG-GAS based on primary coolant radionuclides measurements
16:55–17:10	266	A. Pichlmaier	Germany	FRM II: Why is Germany’s only reactor with P > 1 MW temporarily shut down, where is it going
17:10–17:30	Q&A			

TUESDAY, 12 NOVEMBER 2024

17:30–18:30

SIDE EVENT 1:

The Role of Research Reactors in
Advancing Sustainable Development
Goals

(Board Room B/M1)

Moderator:

E. Vargas, IAEA

Time	Name	Designating Member State/Organization	Title
17:30– 17:35	T. Wheldon	IAEA	Opening Remarks
17:35– 18:10	J. Antoine	Jamaica	Panel Discussion
	K. Tiya Pun	Thailand	
	B. Ponsard	Belgium	
	F. Deluchi	IAEA	
18:10– 18:25	E. Vargas	IAEA	Q&A
18:25– 18:30	T. Wheldon	IAEA	Summary and Closing

TUESDAY, 12 NOVEMBER 2024

17:30–18:30

SIDE EVENT 2:
Nuclear Security Considerations for
Research Reactors

(M Building/M3)

Moderator: H. Looney, IAEA

Time	Name	Designating Member State/Organization	Title
17:30– 17:35	L. Evrard	IAEA	Opening Remarks
17:35– 17:45	A. Acevedo	IAEA	Presentation
17:45– 18:15	O. Abdelgawad	Egypt	Panel Discussion
	A. Meliana	Indonesia	
	Y. Ibrahim	Nigeria	
18:15– 18:25	H. Looney	IAEA	Q&A
18:25– 18:30	E. Buglova	IAEA	Summary and Closing

WEDNESDAY, 13 NOVEMBER 2024

08:30–10:00

**SESSION 3B:
New Research Reactor Programmes**

(Board Room B/M1)

Chairpersons: **A.T. Mozagba, South Africa**
J. Perrota, Brazil

Time	Paper No.	Name	Designating Member State/Organization	Title
08:30–08:55	75	P. Oliveira	Brazil	RMB - The New Nuclear Research Centre in Brazil
08:55–09:10	150	A.T. Mozagba	South Africa	Status Reports on New Research Reactor Programme in Progress, Experience and Lessons Learned - South Africa's MPR Project
09:10–09:25	78	J. Rataj	Czech Republic	New Research Reactor at Czech Technical University in Prague - Subcritical Assembly VR-2
09:25–09:40	289	P. Cantero	Argentina	RA-10 Project: Current status and challenges
09:40–10:00	Q&A			
10:00–10:30 Poster Session B and Coffee Break				

WEDNESDAY, 13 NOVEMBER 2024

10:30-12:30 **SESSION 5A:**
Security of Research Reactors

(Board Room B/M1)

Chairpersons: **Z. Camtakan, Türkiye**
 H. Looney, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
10:30–10:55	275	H. Looney	IAEA	Overview of the IAEA Programme on the Security of Research Reactors
10:55–11:10	272	Z. Camtakan	Türkiye	Security Management Experience of the ITU TRIGA Training and Research Reactor: Insights from IPPAS Mission and the Evolving Regulatory Framework
11:10–11:25	21	M. El Tokhy	Egypt	Secure Monitoring and Information Transmission Scheme in IoT Environment for Nuclear Facilities
11:25–11:40	82	M. Husain	Malaysia	The Development Progress of Design Basic Threat Documents for Nuclear Installation and Category One Facilities in Malaysia
11:40–11:55	84	B. Purnomo	Indonesia	Challenges in the Implementation of Nuclear Security In Old Nuclear Research Reactors
11:55–12:10	256	A. Nasser	Jordan	Insider Threat Mitigation at Jordan Research and Training Reactor
12:10–12:30	Q&A			
12:30–13:30 Lunch Break				

WEDNESDAY, 13 NOVEMBER 2024

13:30–15:00

SESSION 4C:

(Board Room B/M1)

Safety of Research Reactors

Chairpersons: H. Cruz, USA

H. Odoi, Ghana

Time	Paper No.	Name	Designating Member State/Organization	Title
13:30–13:55	282	S. Malaka	South Africa	Ageing Management and Continued Safe Operation of SAFARI-1
13:55–14:10	60	F. Batool	Pakistan	PNRA Experience of Periodic Safety Review to Ensure the Continued Safe Operation of Research Reactors and Implementation of Identified Safety Improvements
14:10–14:25	251	L. Hasa	Netherlands	HFR Ageing Management Program and Continued Safe Operation
14:25–14:40	65	M. Daniels	USA	From Vacuum Tubes to Solid-State: The Upgraded Control Console for the Idaho State University AGN-201
14:40–15:00	Q&A			
15:00–15:30 Poster Session B and Coffee Break				

WEDNESDAY, 13 NOVEMBER 2024

15:30–17:30

SESSION 6A:

(Board Room B/M1)

Research Reactor Fuel Management

Chairpersons: L. Belinsky, Russia

K. Dunn, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
15:30–15:55	284	K. Dunn	IAEA	IAEA Support for Research Reactor Fuel Cycle Programmes
15:55–16:20	139	L. Belinsky	Russia	Research Reactor Spent Fuel Management in Russia
16:20–16:35	95	A. Asuku	Nigeria	From High Enriched Uranium to Low Enriched Uranium: Comparison of Fuel Cycle Performance of Accident-Tolerant Fuel for Optimization of Fuel Management of Miniature Neutron Source Reactors
16:35–16:50	68	T. Sundari	Indonesia	Experiences In Indonesian Wet Storage Of Spent Nuclear Fuels And The Future Challenges
16:50–17:05	243	F. Genezini	Brazil	Thermal Neutron Flux Profile Characterization On The Iea-R1 Nuclear Safety Monitoring Channel
17:05–17:20	105	A. Pungercic	Slovenia	Depletion Algorithm for the ON-FLY Nuclide Inventory Determination for Research Reactors in the RAPID Code System
17:20–17:30	Q&A			

WEDNESDAY, 13 NOVEMBER 2024

17:30–18:30

SIDE EVENT 3:
Capacity Building Based on Research
Reactor Centers

(Board Room B/M1)

Moderator:

P. Chakrov, IAEA

Time	Name	Designating Member State/Organization	Title
17:30– 17:35	O. Mykolaichuk	IAEA	Opening Remarks
17:35– 18:10	M. Villa	Austria	Panel Discussion
	C. Elyounoussi	Morocco	
	P. Cantero	Argentina	
	L. Sklenka	Czech Republic	
18:10– 18:25	P. Chakrov	IAEA	Q&A
18:25– 18:30	P. Chakrov	IAEA	Summary and Closing

WEDNESDAY, 13 NOVEMBER 2024

17:30–18:30 **SIDE EVENT 4:** **(M Building/M3)**
Safety Considerations in Use of
Advanced and Innovative Technology in
Research Reactors

Moderator: **J. Christensen, IAEA**

Time	Name	Designating Member State/Organization	Title
17:30–17:35	A. Bradford	IAEA	Opening Remarks
17:35–18:10	L. Handszok	Argentina	Panel Discussion
	Y. Suh	Republic of Korea	
	H. Cruz	USA	
18:10–18:25	J. Christensen	IAEA	Q&A
18:25–18:30	J. Christensen	IAEA	Summary and Closing

THURSDAY, 14 NOVEMBER 2024

08:30–10:00 **SESSION 4D:**
Safety of Research Reactors

(Board Room B/M1)

Chairpersons: **M. Gaheen, Egypt**
 J. Mlicak, Czech Republic

Time	Paper No.	Name	Designating Member State/Organization	Title
08:30–08:50	285	E. Helvenston	USA	Regulatory Oversight of Research Reactors
08:50–09:05	229	S. Zhao	China	Regulatory Supervision of Research Reactors in China
09:05–09:20	108	F. Keles	France	ASN's Oversight on Ageing Management and Periodic Safety Review of Research Reactors, and Notably the PSR as a Tool for Handling Ageing Effects on Research Reactors
09:20–09:35	24	M. Akpanowo	Nigeria	Regulatory Oversight of the Nigeria Research Reactor - 1
09:35–09:50	51	M. Qayyum	Pakistan	Experience in Application of the IAEA Code of Conduct on the Safety of Research Reactors
09:50–10:00	Q&A			
10:00–10:30 Poster Session B and Coffee Break				
10:30–11:00 Poster Session B – Check Annex II				

THURSDAY, 14 NOVEMBER 2024

11:00–12:30 **SESSION 7A:** **(Board Room B/M1)**
Common Management Considerations

Chairpersons: **M. Kim, Republic of Korea**
 E. Vargas, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
11:00–11:25	287	P. Chakrov	IAEA	IAEA Cross Cutting Activities on Research Reactors
11:25–11:40	273	Q. Zhou	China	CIAE Experience of Handling Interface Between Safety and Security for Research Reactors
11:40–11:55	67	L. Sklenka	Czech Republic	Development of National Strategy for Decommissioning of Research Reactors in the Czech Republic
11:55–12:10	235	L. Dghaimat	Jordan	Safety Culture Program in the Jordan Research and Training Reactor
12:10–12:30	Q&A			
12:30–13:30 Lunch Break				

THURSDAY, 14 NOVEMBER 2024

13:30–15:00 **SESSION 1C:**
Utilization and Applications

(Board Room B/M1)

Chairpersons: **M. Hawari, Jordan**
 V. Semkova, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
13:30–13:55	118	J. Matouskova	Czech Republic	Neutron Imaging at Low and Medium Flux Neutron Sources
13:55–14:10	227	A. Venter	South Africa	Beam Line Facilities at the Safari-1 Research Reactor and their Progression into the New Multi-Purpose Reactor
14:10–14:25	280	V. Hutanu	Germany	Current Status and Future of Neutron Transmutation Doping Silicon at Research Reactors: Global Challenges and Opportunities
14:25–14:40	6	D. Khalil	Egypt	Internal Structure Characterization for a Set of Greek-Roman Coins that Discovered in Mediterranean Sea at Egypt Using Neutron Tomography
14:40–15:00	Q&A			

15:00–15:30 **Poster Session B and Coffee Break**

THURSDAY, 14 NOVEMBER 2024

15:30–17:30

SESSION 2C:
Operation and Maintenance

(Board Room B/M1)

Chairpersons: **A. Salvini, Italy**

R. Mazzi, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
15:30–15:55	86	L. Stefanini	Netherlands	Condition Based Maintenance for Research Reactors
15:55–16:10	50	J. Abdul Karim	Malaysia	Managing and Sustaining the Safe Use of the PUSPATI TRIGA Reactor (RTP) in Malaysia: Challenges, Lesson Learned and Good Practices
16:10–16:25	20	P. Dordoh-Gasu	Ghana	Over Two Decades of Operation of Ghana Research Reactor-1: Maintenance Practices and Lessons Learned
16:25–16:40	43	F. Kungurov	Uzbekistan	Operation and Maintenance of WWR-SM Research Reactor in Uzbekistan
16:40–16:55	30	N. Jahan	Bangladesh	Operational Experiences and Ageing Management of BAEC TRIGA Research Reactor
16:55–17:30	Q&A			

THURSDAY, 14 NOVEMBER 2024

17:30–18:30

SIDE EVENT 5:
Women at Research Reactors: Challenges
and Opportunities

(Board Room B/M1)

Moderator: A. Elrefaei, IAEA

Time	Name	Designating Member State/Organization	Title
17:30– 17:32	A. Elrefaei	IAEA	Introduction
17:32– 17:37	L. Evrard	IAEA	Opening Remarks
17:37– 17:42	L. Holgate	USA	Remarks
17:42– 17:47	I. Biggs	Australia	Remarks
17:47– 18:17	S. Bustamante	Chile	Panel Discussion
	J. Matouskova	Czech Republic	
	L. Dghaimat	Jordan	
	A. Mozagba	South Africa	
	L. Hu	USA	
18:17– 18:27	A. Elrefaei	IAEA	Q&A
18:27– 18:30	A. Elrefaei	IAEA	Summary and Closing

FRIDAY, 15 NOVEMBER 2024

08:30–10:00 **SESSION 1D:**
Utilization and Applications

(Board Room B/M1)

Chairpersons: **R. Mikolajczak, Poland**
 B. Ponsard, Belgium

Time	Paper No.	Name	Designating Member State/Organization	Title
08:30–08:50	288	B. Ponsard	Belgium	Atoms for Health: Challenges and Opportunities in Research Reactor Based Medical Radioisotope Production
08:50–09:10	283	R. Mikolajczak	Poland	Radioisotope Production in MARIA Research Reactor
09:10–09:25	197	J. Antoine	Jamaica	The Forensic Science Applications of the JM-1 SLOWPOKE Research Reactor
09:25–09:40	111	L. Snoj	Slovenia	Towards Optimized Use of Research Reactors in Europe – TOURR project: Strategy for upgrading existing and building new Research Reactors
09:40–10:00	Q&A			
10:00–10:30 Coffee Break				

FRIDAY, 15 NOVEMBER 2024

10:30–11:30

SESSION 7B:
Common Management Considerations

(Board Room B/M1)

Chairpersons:

M. Salhi, Algeria

N. Pessoa Barradas, Portugal

Time	Paper No.	Name	Designating Member State/Organization	Title
10:30–10:50	286	G. Storr	Australia	Considerations for a Sustainable Future for Research Reactors
10:50–11:05	230	A. Eisa	Egypt	Assessment Criteria for Reviewing the Knowledge Management Status in Nuclear and Radiological Installations
11:05–11:20	117	P. Mattar	Brazil	Considerations Regarding the Mission and Challenges of Deployment a New Research Reactor Center
11:20–11:30	Q&A			

FRIDAY, 15 NOVEMBER 2024

11:30–12:30 **PANEL SESSION:** **(Board Room**
Summary, Discussion, **B/M1)**
Conclusions, and
Recommendations

Chairpersons: **K. Toukan, Jordan**
 V. Savilov, Russia

Panelists: **G. Storr, Australia**
 I. Costa, Brazil
 S. O’Kelly, USA

Time	Name	Designating Member State/Organization	Title
11:30–11:35	K. Toukan	Jordan	Address the overall session topic with emphasis on Strategic planning, effective utilization and sustainable operation
11:35–11:40	G. Storr	Australia	Address the overall session topic with emphasis on Safety and Security and Common Management Practices
11:40–11:45	S. O’Kelly	USA	Address the overall session topic with emphasis on Operation and Maintenance, Safety and Security, and International Cooperation
11:45–11:50	V. Savilov	Russia	Address the overall session topic with emphasis on New Research Reactor Programs, Infrastructure Development and International Cooperation
11:50–12:00	I. Costa	Brazil	Address the overall session topic with emphasis on Capacity Building, New Generation Development, Gender Balance and New Research Reactor Programs
12:00–12:15	All	All	Summary Discussion
12:15–12:30	G. Storr	Australia	Conference Conclusions and Recommendations

FRIDAY, 15 NOVEMBER 2024

12:30–13:00

CLOSING SESSION

(Board Room B/M1)

Time	Name	Designating Member State/Organization	Title
12:30– 12:40	Young Professional Poster Awards	IAEA	Awards
12:40– 12:45	M. Chudakov	DDG-NE, IAEA	Closing Remarks
12:45 – 12:50	L. Evrard	DDG-NS, IAEA	Closing Remarks
12:50– 12:55	K. Toukan	Conference Chair, JAEC	Closing Remarks
12:50– 13:00	D. Ridikas P. Chakrov A. Shokr	Scientific Secretaries, IAEA	Closing Remarks

ANNEX I

Poster Presentations

TUESDAY, 12 NOVEMBER 2024

**15:00–16:00 POSTER SESSION A:
TECHNICAL SESSIONS 1, 2, 3, 7**

M Building Corridor

Session	Designating Member State	Presenters	Id	Title
1	Algeria	Abderrezak Hadri	173	Development Of Quantification Program For Neutron Activation Analysis
1	Algeria	Guesmia Ahmed	154	Quality Control And Performance Evaluation Of K0-Based Neutron Activation Analysis Laboratory At Nur Research Reactor
1	Algeria	Lylia Hamidatou-Alghem	144	Status Of The K0-Neutron Activation Analysis Method Using Nur Nuclear Research Reactor: Development And Application
2	Algeria	Touati Said	141	Prognosis And Health Management (Phm) Of Electrical Rotating Equipment In Nuclear Research Reactors: Es-Salam Case Study
1	Algeria	Tarek Azli	153	Determination Of Trace Elements And Heavy Metals Concentration By Inaa Around The Industrial Zone Of Algiers.
1	Algeria	Zohra Bouhila	142	Environmental Trace Elements Monitoring Using Neutron Activation Analysis In Soil And Air Particulate Matter Samples Nearby Algiers- Algeria
1	Bangladesh	Md. Moazzem Hossain	28	Utilization And Applications Of The 3mw Triga Mark-Ii Research Reactor Of Bangladesh
3	Bolivia	Yaroslav Daironas	252	Center For Nuclear Technology Research And Development In Bolivia: Project Status
3	Brazil	Daniel Honório, Marcelo Zanellati De Jesus	237	Balancing Development And Preservation: Environmental And Nuclear Licensing Aspects Of The Brazilian Multipurpose Reactor (Rmb)
2	Brazil	Frederico Genezini	195	Optimization Of IEA-R1 Reactor Core Parameters Using Particle Swarm Algorithm
2	Colombia	Jaime Sandoval Lagos	218	Computational Model And Characterization Of The Colombian Nuclear Research Reactor Ian-R1 Using Mcnp6
7	Egypt	Hade Elsayed	120	Safety And Security Requirements during the Decommissioning of Research Reactors

7	Egypt	Hade Elsayed	223	Implementation Of A Nuclear Knowledge Management Program On Decommissioning Of Nuclear Facilities
1	Egypt	Mohamed El Gizawy	31	Production Capacity Of New Emerging Therapeutic Radioisotopes At Egyptian Second Research Reactor (Etrr-2) For Addressing The National Supply
2	Egypt	Mohamed Shaat	18	Feedback Of Operating Experience And Learned Lessons After 25 Years Of Successful Operation Of Second Egyptian Research Reactor
1	Egypt	Mohamed Soliman	47	Innovative Neutron Activation Approach For Analysis Of Large Liquid Samples Based On Short-Lived Radionuclides.
7	Egypt	Tamer Sakr	32	Medical Radioisotopes Production In Etrr-2 Complex: Strategic Plan
3	Ethiopia	Birhanu Tolawak	240	Development Of National Nuclear Infrastructure For Research Reactor Program As Newcomer: In Case Of Ethiopia
3	Ethiopia	Tewodros Wako	124	Public Opinion Survey On The Peaceful Applications Of Nuclear Energy And Nuclear Programme Of Ethiopia
1	Ghana	Henry Cecil Odoi	15	Ghana's Experience In Research Reactor Utilization
7	Ghana	Suraj Sam Issaka	3	Enhancing Nuclear Security And Safety In Ghana Research Reactor-1: Challenges And The Way Forward
1	Greece	Alexandra Ioannidou	91	A Student Training Nuclear Reactor On Education And Training
7	IAEA	Alexey Katukhov	233	Iaea Technical Cooperation Programme As A Tool To Support Research Reactor Safety And Utilization In Europe And Central Asia
7	Indonesia	Djarot Sulistio Wisnubroto	179	Leveraging Strengths And Opportunities: A Swot Analysis Of Indonesia's Research Reactors For Advancing Science And Technology
3	Indonesia	Geni Rina Sunaryo	182	The Development Of A Safe And Versatile Experimental Reactor (Rde) For Indonesia's Power Program
2	Indonesia	Umar Sahiful Hidayat	176	Comprehensive In-Service Inspection Implementation Of Kartini Reactor Sscs For Continues Safe Operation
1	Iran	Ebrahim Abedi	214	Development Of A Fuel Test Loop In Tehran Research Reactor For Domestic Designed Fuels Experiments

1	Italy	Andrea Gandini	204	Training And Applications Of Academic Neutrons
1	Italy	Massimo Rogante	23	Rogante Engineering Office: Italian Landmark For Industrial Applications Of Neutron Techniques
2	Jordan	Ahmad Hawari	128	Optimizing Preventive Maintenance Strategies For Ups: Case Study On Verifying Battery Cells Connection For Continuous Class Ii Power Supply During Transient Period Between Loop And Dg Start-Up.
1	Jordan	Sayel Marashdeh	101	Determination of the Thermal Capture Cross Section and Resonance Integral of $^{186}\text{W}(n,\gamma)^{187}\text{W}$ at the Jordan Research and Training Reactor
1	Jordan	Shafeeq Alawad	132	HKJ (Jordan) 99mtc Extractor, Design Improvement And Performance Enhancement
1	Jordan	Shafeeq Alawad	146	JRTR RIPF Best Practices Applied In Iodine-131 Packaging & Dispatching Process
1	Jordan	Shafeeq Alawad	177	I-131 Production Capacity And Method Applied At Jrtr.
2	Jordan	Ahmed Hawari	103	Reactor Power Control
2	Jordan	Mohammad Elduwieb	99	A Mitigation Approach Of Wet Stacking In Research Reactor Diesel Generator At Jrtr
2	Jordan	Mohannad Almarafi	131	Good Practice In Maintenance At The Jordan Research And Training Reactor
1	Jordan	Shafeeq Alawad	183	Ho-166 Microspheres Processing, Testing And Dispatching In Jrtr
1	Kazakhstan	Aigerim Nessipbay	36	Development Of The Device For The Formation Of The Therapeutic Neutron Beam At The Wwr-K Reactor
1	Kazakhstan	Damir Satpayev	14	Activities At The Wwr-K Reactor Related To Radiation Coloration Of Topazes
7	Kazakhstan	Dauren Nugumanov, Damir Satpayev	13	55th Anniversary Of The Wwr-K Reactor: Past, Present, Future
3	Kenya	Calvince Odeny	34	Opportunities, Status And Challenges Of Research Reactor Development In Sub-Saharan Africa: The Case Of Kenya.
1	Libya	Mohamed Ashrief	145	The Experience On Production Of Radioisotopes And Radiopharmaceuticals At Tajoura Nuclear Reach Center.
1	Morocco	Chafik El Younoussi	166	New Core Configuration To Increase Iodine 131 Production Capability In The Moroccan Triga Mark Ii Research Reactor

1	Morocco	Khalid Laraki	33	Moroccan Pgae Facility Commissioning Stages Around The Triga Mark Ii Research Reactor
2	Netherlands	Lorenzo Stefanini	160	Time Limited Ageing Analyses For Research Reactors
7	Nigeria	Ahmed Rufai Abubakar	69	Implementation Of Integrated Management System In Nigeria Research Reactor
2	Nigeria	Ahmed Rufai Abubakar	70	Development Of A Tool For Calibration Of Nigeria Research Reactor -1 (Nirr-1) Instrumentation
2	Nigeria	Uwaisu Shuaibu Adam	48	Total Productive Maintenance Approach For The Nigerian Research Reactor Availability Improvement
1	Peru	Wilder Arévalo Farro	215	Calculation Of Dose And Neutron Flow In The Neutrography Facility Of The Rp-10 Reactor Using The Sabine Code
2	Philippines	Alvie Asuncion-Astronomo	121	Continuous And Pulse-Mode Operation Of A Triga-Fueled Subcritical Assembly
3	Philippines	Alvie Asuncion-Astronomo	201	Establishment Of The Philippine Research Reactor-1 (Prr-1) Subcritical Assembly For Training, Education, And Research (Sater)
2	Republic of Korea	Changdong Lee	98	Replacement Of Heat Plates In Primary Cooling System Of Hanaro
2	Republic of Korea	Jongmin Park	207	Detector Position Sensitivity Of Control Rod Worth By The Rod Drop Experiment Using Time-Dependent Monte Carlo Simulations
1	Republic of Korea	Myong-Seop Kim	152	Current Status Of The Hanaro Neutron Transmutation Doping System In 2023
1	Republic of Korea	Myungkook Moon	126	Hanaro Ex-Core Neutron Irradiation Facility(Enf) For Neutron Imaging And Irradiation
3	Russia	Andrei Goriachikh	224	Concept Of A Molten Salt Research Reactor (Izhsr)
3	Russia	Yana Fetisova	225	Mbir – Research Facility For Validation Of Innovative Reactor Designs
3	Saudi Arabia	Abdullah S. Alomari	253	The Saudi Low Power Research Reactor (Lprr): Current Status
7	Saudi Arabia	Anas M. Alwafi	255	Building a robust safety culture for construction research reactor in an emerging nuclear country
3	Saudi Arabia	Salman M. Alshehri	254	Utilization And Human Capital Building For The Saudi Low Power Research Reactor (Lprr)
1	Slovenia	Domen Kotnik	157	Current Status Of The Water Activation Loop At Jsi Triga Reactor
1	Slovenia	Julijan Peric	138	Water Activation Experiments Under Fusion-Relevant Conditions At The Jsi Triga Research Reactor:

				Design And Implementation Of The Jsi Water Activation Loop Systems
1	Slovenia	Klemen Ambrožič	203	Nuclear Heating Measurements And Simulations At The Jsi Triga Reactor
1	Slovenia	Luka Snoj	161	Research Reactor Simulator At Jsi
3	Tanzania	Alex Muhulo	205	Internet Research Reactor (Irr) For Capacity Building: Tanzania Case
3	Thailand	Kanokrat Tiyaapun	193	Experienced in application of IAEA Milestones Approach, INIR-RR and Workforce Developing Plan using IAEA's Human Resource Modelling Tool
1	Thailand	Saensuk Wetchagarun	202	Trr-1/M1 For Education And Training: Past, Present, And Future
2	Thailand	Sunan Somchit	198	Non-Destructive Inspection (Ndt) Project : Testing And Analysis Of Emergency Core Cooling System Water Tank.
1	Thailand	Weerawat Pornroongruenchok	127	Non-Destructive 3d Visualization Of Cultural Heritage Artifacts Using Neutron Tomography At Thai Research Reactor
1	Tunisia	Mahmoud Daoudi	56	Study Of Mixed Neutron/Gamma Irradiation Effect From Minerve Research Reactor In Epoxy Resin: Structural Stabilization For Shielding Application And Improvement The Optical And Electric Performances
1	Tunisia	Walid Dridi	49	Alternative Nio-Based Neutron Reactor Dosimeter Overseeing By Optical, Nanostructural And Morphological Changes
3	USA	Alexandra Meehan	236	Proliferation Resistance Of Research Reactor Systems – An Overview And Update
3	USA	Basar Ozar	222	Demonstration Of The Proliferation Resistance Optimization Of Research Reactor Designs
2	USA	Kelly Mccary	125	Modernizing The Legacy Fission Wire Measurement System For The Advanced Test Reactor – Critical Facility
2	USA	Michael Reichenberger	61	Niobium Activation Measurements For Lobe Power Calculation Indication System Alignment At The Advanced Test Reactor.

ANNEX II

Poster Presentations

THURSDAY, 14 NOVEMBER 2024

10:00–11:00

**POSTER SESSION B:
TECHNICAL SESSIONS 4, 5, 6**

M Building Corridor

Session	Designating Member State	Presenters	Id	Title
4	1. Algeria	Ahmed Hadjam	151	Numerical Simulation of Fluid Structure Interaction following a LBLOCA accident in the fuel bundle test section of the CALLISTO test loop facility coupling with BR2 Research Reactor
4	2. Algeria	Dahia Ahmed	156	Numerical simulation of SB-LOCA transient accident during leakage in water supply cooling system of research Reactor
4	3. Algeria	Djillali Saad	158	The PCT uncertainty and sensitivity analysis of Es-Salam reactor fuel rods during steady-state operations
4	4. Algeria	Nacim Mellel	164	Evaluation of the Thermo-Mechanical Behavior of the Low-Enriched Uranium Plate Target considering the Fission Gas Release Pressure at the Interface of the Cladding Target using the Redlich–Kwong state equation
4	5. Algeria	Samir Mazidi	165	Deterministic method for estimation of main neutronic safety parameters of NUR research reactor core
4	6. Algeria	Adnane Messai	170	Implementation of a Digital Reactivity-meter Using Xilinx Zynq System on Chip (SoCs) Devices
6	7. Algeria	Mohamed Khalfa	172	Influence of the oxide film growth on temperature of fuel plate in benchmark IAEA Nuclear Research Reactor: Thermal-hydraulic calculation.
4	8. Argentina	Fabricio Brollo	168	Periodic Safety Review Process in RA-6 Research Reactor
4	9. Argentina	Enzo Beretta	169	A framework for the Research Reactors Deterministic Safety Analysis supported with specific software development and QA tools
4	10. Bangladesh	Mohammad Abdul Motalab	85	Neutronics and Thermal-Hydraulics Coupling for Small Research Reactor Core

					Simulation: Methodological Development and Validation
4	11.	Canada	Chelsea Trudeau	263	Aging Management in the ZED-2 Research Reactor
4	12.	Colombia	Edgar Mauricio Lopez Rodriguez	219	Effect Of Cadmium Species On The Variation Of Kinetic Parameters In The Ian-R1 Nuclear Research Reactor
6	13.	Colombia	Jose Antonio Sarta Fuentes	242	Radioactive Inventory Of Triga Fuel Elements In The Ian-R1 Research Reactor
4	14.	Democratic Republic of Congo	Petrus Bompere Lemo	90	Cnpr Regulatory Supervision Of Research Reactor During Extended Shutdown State: Current Inspections And Future Plan
4	15.	Egypt	Abdelfattah Ali	4	Thermal Hydraulic Analysis Of Inward And Outward Fuel Plate Buckling In A Typical Mtr Reactor
4	16.	Egypt	Moustafa Ibrahim	9	Calculations Of Control Rods Worth And Kinetic Physical Parameters For Astra Critical Facility
4	17.	Egypt	Hesham Elkhatab	40	Safety Enhancement Of The Egypt Second Research Reactor To Reduce The Effect Of Loss Off-Site Power Supply
4	18.	Egypt	Mohamed Esawy	64	Ageing Management Of Etr-1 During Extended Shutdown To Support Its Restart Or Decommissioning Option
4	19.	Egypt	Magdy Abdelaal	73	Analytical Model For The First Periodic Safety Review Of Nuclear Research Reactors In Light Of National Regulations And International Recommendations
4	20.	Egypt	Nageib Ashoub	186	Safety Analysis Of Positive Reactivity In Research Reactor During Loss Of Flow (Lof) Accident
4	21.	Egypt	Hassan Hassan	187	Safety Analysis Of Loss Of Flow Accident In Mtr Research Reactor
5	22.	Egypt	Nesma Elsokkary	221	Deep Learning-Based Dynamic Risk Assessment Framework For Research Reactor Using Monitoring Data
4	23.	Egypt	Mohamed Gaheen	234	Review Of Thermal Hydraulic Safety Aspects Of Research Reactor Core
6	24.	Ghana	Sylvester Attakorah Birikorang	22	Utilization After The Completion Of Ghana's Mnsr Conversion From Heu To Leu And Lessons Learned

4	25.	Ghana	Prince Amoah	26	Regulatory Oversight Of Ghana's Research Reactor - Post Core Conversion.
4	26.	Indonesia	Ade Awalludin	42	Regulatory Oversight Of Nuclear Research Reactors In Indonesia: Policy Adjustments For Operational Challenges
5	27.	Indonesia	Pradika Annas Kuswanto	72	Analysis Of The Role Of The National Vital Object Police In Enhancing Nuclear Security For Nuclear Research Reactors In Indonesia
4	28.	Indonesia	Azizul Khakim	76	Safety Analysis Of Inadvertent Control Rods Withdrawal Of Rsg Gas For Various Initial Powers
4	29.	Indonesia	Arifin Muhammad Wibowo	77	Application Of Balis Smile As A Tool For Indonesian Nuclear Installation Facility Inspection And Safety Monitoring
5	30.	Indonesia	Alfitri Meliana	80	The Necessity Of Secure Transportation Of Nuclear And Radioactive Materials For Indonesian Research Reactors
6	31.	Indonesia	Titik Sundari	83	Spent Nuclear Fuels Testing And Inspections As A Part Of Quality Management In The Indonesian Interim Storage For Spent Fuel
4	32.	Jordan	Sayel Marashdeh	101	The Safety Analysis Of New Targets At The Jordan Research And Training Reactor
4	33.	Jordan	Mustafa Albrek	113	Evaluation Of Occupational Exposure During Normal Operation Of The Radioactive-Waste Treatment Facility At The Jordan Research And Training Reactor
4	34.	Jordan	Mohammad Alqudah	143	Assessing The Consequences Of A Hypothetical Accident At The JRTR
4	35.	Jordan	Alaaddin Alnajjar	162	Radiological Protection Program At Jordan Research And Training Reactor (Jtr): Experience, Challenges And Best Practices For Safe And Sustainable Operation
7	36.	Jordan	Lujain Khalaileh	196	Investigating Stakeholder Perceptions of Jordan's Research and Training Reactor: A Survey-Based Approach
6	37.	Libya	Tariq Malatim	81	Modification Of Tajoura Research Reactor Fuel Elements Dimensions - Neutronic Simulation
4	38.	Libya	Fatma Ghangir	241	Simulating Water Hammer Behavior Due To Break In A Horizontal Channel Of Tajoura

					Nuclear Research Centre's Reactor Using The Parent Model.
4	39.	Malaysia	Mazleha Maskin	79	Fire Probabilistic Safety Assessment: An Evaluation At Reactor Triga Puspati Control Room
6	40.	Nigeria	Nasiru-Deen Bello	25	Heu To Leu Fuel Conversion For Nirr-1: A Regulatory Perspective
4	41.	Nigeria	Sunday Jonah	74	The Nigeria Research Reactor-1: Operational Safety And Optimal Utilization Five Years After Conversion To Leu
4	42.	Nigeria	Nuruddeen Abubakar	92	Recent Challenges In Nirr-1 And Iaea Support Towards Operational Safety Enhancement And Compliance With New National Regulations
4	43.	Nigeria	John Simon	94	Modeling Atmospheric Dispersion Of Radionuclides Released From Nirr-1 Leu Core: Implications For Decommissioning Planning
5	44.	Nigeria	Yakubu Ibrahim	188	Approach To Nuclear Security At The Nigeria Research Reactor-1 Facility
4	45.	Pakistan	Shahbaz Ali Nasir Bhatti	58	Pnra Experience Of Regulating Research Reactor And Molybdenum Production Facility (Mpf) During Construction And Operation Phases
4	46.	Pakistan	Muhammad Abid Aslam Meo	59	Analysis Of Single Failure Criterion During Natural Circulation Mode At Parr-1
4	47.	Peru	Victor Viera Castillo	209	Calculation Of The Axial Peak Factor And The Average Of The Thermal Neutron Flux With U3o8 Fuel Elements Of The Reactor Rp-10
4	48.	Peru	Alvaro Aguirre Ancieta, Wilder Arevalo Farro	217	Experimental Determination Of Delayed Neutron Fraction Using Neutron Noise And Neutron Activation Analysis At Rp-10
6	49.	Republic of Korea	Yong Jin Jeong	129	Status Of Developments Of High-Density Atomized U3si2 Fuel Plates In Kaeri
4	50.	Thailand	Kunthida Waree	200	Dose Assessment Of Maximum Hypothetical Accident (Mha) For A New Research Reactor
5	51.	Uganda	Bernard Mugalya	210	Developing And Maintaining Computer Security Plans To Strengthen Nuclear Security For A Research Reactor
4	52.	Ukraine	Andrii Shepitchak	212	Revision Of Ukraine's Safety Requirements For Research Reactors

4	53.	Uzbekistan	Sapar Baytelesov	45	Investigation Of The Aerosol And Gaseous Composition Of Iodine Isotope Compounds In Emissions From The Wwr-Sm Reactor Facility
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IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

Publications relating to Nuclear Technology and Applications

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[Neutron Activation Analysis Using Short Half-life Radionuclides, \(IAEA-TECDOC-2055\), 2024](#)

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[Cold Neutron Sources: Practical Considerations and Modern Research | IAEA, IAEA-TECDOC-2025, IAEA, Vienna \(2023\)](#)

[Integrated Research Reactor Utilisation Review \(IRRUR\) Guidelines \(IAEA Service Series No. 48\), 2023](#)

[Advances in Boron Neutron Capture Therapy, Non-serial Publications, IAEA, Vienna \(2023\)](#)

[Research Reactor Exercises for Higher Education Programmes | IAEA TECDOC-2024 \(2023\)](#)

[Specific Considerations and Guidance for the Establishment of Ionizing Radiation Facilities \(IRF\), IAEA Radiation Technology Series No. 7 \(2023\)](#)

[IAEA Bulletin on Research Reactors, 64-4 \(Dec. 2023\)](#)

2021

[Sustainability and Self-Reliance of National Nuclear Institutions \(IAEA-TECDOC-1943\), 2021](#)

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[Neutron Scattering with Low and Medium Flux Neutron Sources \(IAEA-TECDOC-1961\), 2021](#)

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[Modern Neutron Detection \(IAEA-TECDOC-1935\), 2020](#)

2018

[Development of an Integrated Approach to Routine Automation of Neutron Activation Analysis \(IAEA-TECDOC-1839\), 2018](#)

2017

[Strategic Planning for Research Reactors \(IAEA Nuclear Energy Series No. NG-T-3.16\), 2017](#)

[Research Reactors for the Development of Materials and Fuels for Innovative Nuclear Energy Systems \(IAEA Nuclear Energy Series NP-T-5.8\), 2017](#)

2016

[History, Development and Future of TRIGA Research Reactors \(Technical Reports Series No. 482\), 2016](#)

2014

[Applications of Research Reactors \(IAEA Nuclear Energy Series No. NP-T-5.3\), 2014](#)

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2024

[Optimization of Research Reactor Availability and Reliability: Recommended Practices \(IAEA Nuclear Energy Series No. NP-T-5.4 \(Rev.1\), 2024](#)

[Guidelines for Ageing Management, Modernization and Refurbishment Programmes for Research Reactors, \(IAEA Nuclear Energy Series No. NR-G-5.2\), 2024](#)

[Project Management in Construction of Research Reactors \(IAEA Nuclear Energy Series No. NR-G-5.3\), 2024](#)

[Research Reactor Exercises for Higher Education Programmes \(IAEA-TECDOC - 2024\), 2023](#)

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[Post-irradiation Examination Techniques for Research Reactor Fuels \(IAEA Nuclear Energy Series No. NF-T-2.6\), 2023](#)

2022

[Practices for Interim Storage of Research Reactor Spent Nuclear Fuel \(IAEA Nuclear Energy Series No. NF-T-3.10\), 2022](#)

[Research Reactor Benchmarking Database: Facility Specification and Experimental Data \(Revision\) \(Technical Reports Series No. 480 \(Rev.1\)\), 2022](#)

[Benchmarks of Fuel Burnup and Material Activation Computational Tools Against Experimental Data for Research Reactors. Results of a Coordinated Research Project \(IAEA TECDOC No. 1992\), 2022](#)

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[Specific Considerations in the Assessment of the Status of the National Nuclear Infrastructure for a New Research Reactor Programme \(IAEA Nuclear Energy Series No. NR-T-5.9\), 2021](#)

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[Data Analysis and Collection for Costing of Research Reactor Decommissioning: Final Report of the DACCORD Collaborative Project \(IAEA Nuclear Energy Series No. NW-T-2.12\), 2021](#)

2020

[Guidelines for the Operation and Maintenance Assessment for Research Reactors \(OMARR\) \(IAEA Services Series No. 44\), 2020](#)

[Condition Monitoring and Incipient Failure Detection of Rotating Equipment in Research Reactors \(IAEA TECDOC No. 1920\), 2020](#)

[Material Properties of Unirradiated Uranium–Molybdenum \(U–Mo\) Fuel for Research Reactors \(IAEA TECDOC No. 1923\), 2020](#)

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[Guidelines for Self-assessment of Research Reactor Safety | IAEA](#)

Training Course Series:

[Safety of Research Reactors — Training Material | IAEA](#)

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2006

[Code of Conduct on the Safety of Research Reactors | IAEA](#)

TECDOC Series:

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[Analysis of Results from Integrated Safety Assessment of Research Reactors \(INSARR\) Missions | IAEA](#)

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[Reliability Data for Research Reactor Probabilistic Safety Assessment | IAEA](#)

2016:

[Management of the Interface between Nuclear Safety and Security for Research Reactors | IAEA](#)

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2021

[Computer Security Techniques for Nuclear Facilities](#)

[Handbook on the Design of Physical Protection Systems for Nuclear Material and Nuclear Facilities](#)

2019

[Security during the Lifetime of a Nuclear Facility](#)

2016

[Nuclear Security Management for Research Reactors and Related Facilities](#)

[Management of the Interface between Nuclear Safety and Security for Research Reactors](#)

2011

[Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities \(INFCIRC/225/Revision 5\)](#)

[Physical Protection of Nuclear Material and Nuclear Facilities \(Implementation of INFCIRC/225/Revision 5\)](#)

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30th IAEA Fusion Energy Conference (CN-336)

13 – 18 October 2025, Xian, China

International Conference on Resilience of Nuclear Installations against External Events from Safety Perspective (CN-337)

20 – 24 October 2025, Vienna, Austria

International Conference on Nuclear and Radiological Emergencies: Building the Future in an Evolving World (CN-338)

1 – 4 December 2025, Riyadh, Saudi Arabia

International Conference on Radiation Protection in Medicine: X Ray Vision (CN-339)

8 – 12 December 2025, Vienna, Austria

For information on forthcoming scientific meetings, please consult the IAEA web site:

<http://www.iaea.org/events>