

# **International Conference on Research Reactors:**

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

November 11<sup>th</sup> – 15<sup>th</sup>, 2024

## **DRAFT 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

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## **IAEA Secretariat:**

Scientific Secretaries:

D. Ridikas

P. Chakrov

A. Shokr

Event Organizer:

T. Danaher

Administrative Support:

T. Kornelyuk

M. Romero

E. Vargas

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## **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

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**Resolutions:**

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

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## Android



## iPhone



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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



Receive announcements via push notification

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

## 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	
13:00–14:00		<i>Lunch Break</i>	
14:00–15:30	3A	New Research Reactor Programmes	
15:30–16:00		<i>Coffee/Tea Break and Poster Session A</i>	
16:00–18:00	2A	Operation and Maintenance	
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	
12:30–13:30		<i>Lunch Break</i>	
13:30–15:00	1B	Utilization and Applications	
15:00–15:30		<i>Coffee/Tea Break and Poster Session A</i>	
15:30–16:00		Poster Session A	
16:00–17:30	2B	Operation and Maintenance	
17:30–18:30	Side Event 1	The Role of Research Reactors in Advancing Sustainable Development Goals	
17:30–18:30	Side Event 2	Nuclear Security Considerations for Research Reactors	

## 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	
17:30–18:30	Side Event 4	Safety Considerations in Use of Advanced and Innovative Technology in Research Reactors	Board Room B/M1

## 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	
11:00–12:30	7A	<i>Common Management Considerations</i>	Board Room B/M1
12:30–13:30		Lunch	
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 (WiN Global & IAEA)	

## Friday, 15 November 2024

Time	Session No.	Session Title / Break	Venue
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08:30– 10:00	1D	Utilization and Applications	Board Room B/M1
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10:00– 10:30		<i>Coffee/Tea Break</i>	
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10:30– 11:30	7B	Common Management Considerations	
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11:30– 12:30	<i>Panel Session</i>	<i>Summary Discussion, Conclusions and Recommendations</i>	
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12:30– 13:00	Closing Session	Conference Closing	
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# MONDAY, 11 NOVEMBER 2024

10:30-11:00 OPENING SESSION

(Plenary- M Building)

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

## MONDAY, 11 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
11:00–11:25	274	<b>D. Ridikas</b>	IAEA	IAEA activities in support of sustainable utilization and applications of research reactors
11:25–11:40	147	<b>M. Kim</b>	Republic of Korea	Current Status of the HANARO Utilization
11:40–11:55	250	<b>K. Eberhardt</b>	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	<b>K. Unlu</b>	USA	New Innovative Developments and Sustainable Utilizations of the Penn State Breazeale Reactor
12:10–12:25	89	<b>S. Bustamante</b>	Chile	Chilean Experience Post IRRUR Mission
12:25–12:40	35	<b>A. Shaimerdenov</b>	Kazakhstan	R&D plan for the development of BNCT at the WWR-K
12:40–13:00		<b>Q&amp;A</b>		
<b>13:00–14:00 Lunch Break</b>				



## MONDAY, 11 NOVEMBER 2024

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

(Plenary- M Building)

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

Time	Paper No.	Name	Designating Member State/Organization	Title
14:00–14:25	276	<b>A. Sitnikov</b>	IAEA	Key-note speaker
14:25–14:50	130	<b>M. Kim</b>	Republic of Korea	Status of KJRR project in Korea
14:55–15:05	2	<b>G. Bignan</b>	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
15:05–15:20	52	<b>Y. Fetisova</b>	Russia	MBIR – The Most High-Flux Reactor in the World and a Unique Platform for International Scientific Cooperation
15:20–15:30		<b>Q&amp;A</b>		
<b>15:30–16:00 Poster Session A and Coffee Break</b>				

## MONDAY, 11 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
16:00–16:25	277	<b>R. Mazzi</b>	IAEA	Key-note speaker
16:25–16:40	123	<b>J. Perrotta</b>	Brazil	Commissioning Experiments of the New Core of the IPEN/MB-01 Research Reactor with Plate-Type Fuel Elements
16:40–16:55	257	<b>A. Salvini</b>	Italy	Integrated Management system applied to a low power research reactor facility in operation: lesson learned and future perspective
16:55–17:10	191	<b>K. Tiyapun</b>	Thailand	Ageing Management Experienced in Refurbishment of TRR-1/M1 Reactor Pool
17:10–17:25	265	<b>N. Arkhangelskiy</b>	Russia	Current Status of Russian Research Reactors
17:25–17:40	87	<b>M. Ali</b>	Pakistan	Maintenance, Periodic Testing, and In-Service Inspection at Pakistan Research Reactor-1 (PARR-1)
17:40–18:00		<b>Q&amp;A</b>		
<b>18:00–19:30 Reception</b>				

## TUESDAY, 12 NOVEMBER 2024

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

**(Plenary- M Building)**

**Chairpersons:**    **A. Shokr, IAEA**  
                         **R. Abu-Saleem, Jordan**

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

## TUESDAY, 12 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
10:30–10:55	269	<b>S. Kanamori</b>	France	Periodic Safety Review of research reactors in France
10:55–11:10	109	<b>D. Lopez</b>	The Netherlands	Challenges identified in developing the methodology for safety classification of SSC for the PALLAS-reactor
11:10–11:25	244	<b>R. Abu-Saleem</b>	Jordan	EMRC's Review and Assessment of Research Reactor Safety
11:25–11:40	226	<b>M. Gimenez</b>	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	<b>J. Kalowski</b>	Poland	Lessons learned from design and implementation of safety classification procedure for Maria Research Reactor
11:55–12:10	155	<b>D. Merrouche</b>	Algeria	Verification of Safety Improvement of a Research Reactor
12:10–12:30		<b>Q&amp;A</b>		
<b>12:30–13:30</b>		<b>Lunch Break</b>		

## TUESDAY, 12 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
13:30– 13:55	279	<b>M. Hawari</b>	Jordan	JRTR utilization and impact
13:55– 14:10	280	<b>V. Hutanu</b>	Germany	Status and future of NTD-Si at research reactors
14:10– 14:25	194	<b>M. Reichenberger</b>	USA	Managing an Analytical Chemistry and Radiation Measurements Laboratory at a Nuclear Reactor, Where Operations and Research Collide
14:25– 14:40	178	<b>M. Dastjerdi</b>	Iran	Recent Developments in ISFAHAN MNSR Applications
14:40– 15:00		<b>Q&amp;A</b>		
<b>15:00–15:30</b> <i>Poster Session A and Coffee Break</i>				
<b>15:30–16:00</b> <i>Poster Session A – Check Annex I</i>				

## TUESDAY, 12 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
16:00–16:25	281	<b>S. O’Kelly</b>	USA	Major refurbishment of Advanced Test Reactor
16:25–16:40	141	<b>S. Touati</b>	Algeria	Prognosis and Health Management (PHM) of Electrical rotating equipment in nuclear research reactors: ES-Salam Case Study
16:40–16:55	5	<b>S. Sriyono</b>	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	<b>A. Pichlmaier</b>	Germany	FRM II: Why is Germany’s only reactor with P > 1 MW temporarily shut down, where is it going
17:10–17:30		<b>Q&amp;A</b>		

## TUESDAY, 12 NOVEMBER 2024

17:30–18:30

**SIDE EVENT 1:**  
**The Role of Research Reactors in  
Advancing Sustainable Development  
Goals**

**(Plenary- M Building)**

**Chairpersons:** E. Vargas, IAEA

<b>Time</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
17:30– 17:35	<b>E. Vargas</b>	IAEA	Opening Remarks
17:35– 18:10	<b>J. Antoine</b>	Jamaica	Debate
17:35– 18:10	<b>K. Tiyaapun</b>	Thailand	Debate
17:35– 18:10	<b>B. Ponsard</b>	Belgium	Debate
17:35– 18:10	<b>TCLAC- Unknown</b>	IAEA	Debate
18:10– 18:25	<b>E. Vargas</b>	IAEA	Q&A
18:25– 18:30	<b>D. Ridikas</b>	IAEA	Summary and Closing

## TUESDAY, 12 NOVEMBER 2024

17:30–18:30

**SIDE EVENT 2:**  
**Nuclear Security Considerations for  
Research Reactors**

**(M3- M Building)**

**Chairpersons:** E. Buglova, IAEA

<b>Time</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
17:30– 17:35	<b>E. Buglova</b>	IAEA	Opening Remarks
17:35– 18:10	<b>M. Erdman</b>	IAEA	Debate
17:35– 18:10	<b>O. Abdelgawad</b>	Egypt	Debate
17:35– 18:10	<b>A. Meliana</b>	Indonesia	Debate
17:35– 18:10	<b>Y. Ibrahim</b>	Nigeria	Debate
18:10– 18:25	<b>E. Buglova</b>	IAEA	Q&A
18:25– 18:30	<b>E. Buglova</b>	IAEA	Summary and Closing



## WEDNESDAY, 13 NOVEMBER 2024

08:30–10:00

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
08:30–08:55	75	<b>P. Olivera</b>	Brazil	RMB - The New Nuclear Research Centre in Brazil
08:55–09:10	150	<b>A.T. Mozagba</b>	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	<b>J. Rataj</b>	Czech Republic	New Research Reactor at Czech Technical University in Prague - Subcritical Assembly VR-2
09:25–09:40	29	<b>C. Niane</b>	Senegal	Strategic Planning for Implementation of Research Reactor
09:40–10:00		<b>Q&amp;A</b>		
<b>10:00–10:30</b>		<b>Poster Session B and Coffee Break</b>		

## WEDNESDAY, 13 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
10:30–10:55	275	<b>H. Looney</b>	IAEA	Key-note speaker
10:55–11:10	272	<b>Z. Camtakan</b>	Turkey	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	<b>M. El Tokhy</b>	Egypt	Secure Monitoring and Information Transmission Scheme in IoT Environment for Nuclear Facilities
11:25–11:40	82	<b>M. Husain</b>	Malaysia	The Development Progress of Design Basic Threat Documents for Nuclear Installation and Category One Facilities in Malaysia
11:40–11:55	84	<b>B. Purnomo</b>	Indonesia	Challenges in the Implementation of Nuclear Security In Old Nuclear Research Reactors
11:55–12:10	256	<b>A. Nasser</b>	Jordan	Insider Threat Mitigation at Jordan Research and Training Reactor
12:10–12:30		<b>Q&amp;A</b>		
<b>12:30–13:30</b>	<b>Lunch Break</b>			

## WEDNESDAY, 13 NOVEMBER 2024

13:30–15:00

SESSION 4C:

(Plenary- M Building)

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	<b>S. Malaka</b>	South Africa	Ageing Management and Continued Safe Operation of SAFARI-1
13:55–14:10	60	<b>F. Batool</b>	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	<b>L. Hasa</b>	Netherlands	HFR Ageing Management Program and Continued Safe Operation
14:25–14:40	65	<b>M. Daniels</b>	USA	From Vacuum Tubes to Solid-State: The Upgraded Control Console for the Idaho State University AGN-201
14:40–15:00		<b>Q&amp;A</b>		
<b>15:00–15:30 Poster Session B and Coffee Break</b>				

## WEDNESDAY, 13 NOVEMBER 2024

15:30–17:30

SESSION 6A:

(Plenary- M Building)

Research Reactor Fuel Management

Chairpersons: N. Arkhangelsky, Russia

K. Dunn, IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title
15:30–15:55	284	K. Dunn	IAEA	Keynote Speaker
15:55–16:20	139	L. Belinskiy	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	12	K. Khattab	Syria	Design of New LEU Core for the Syrian MNSR Reactor Using the MCNP Code
16:50–17:05	243	F. Genezini	Brazil	Optimization of IEA-R1 Reactor Core Parameters Using Particle Swarm Algorithm
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**

**(Plenary- M Building)**

**Chairpersons: P. Chakrov, IAEA**

<b>Time</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
17:30– 17:35	<b>P. Chakrov</b>	IAEA	Opening Remarks
17:35– 18:10	<b>M. Villa</b>	Austria	Debate
17:35– 18:10	<b>C. Elyounoussi</b>	Morocco	Debate
17:35– 18:10	<b>P. Cantero</b>	Argentina	Debate
17:35– 18:10	<b>L. Skelenka</b>	Czech Republic	Debate
18:10– 18:25	<b>P. Chakrov</b>	IAEA	Q&A
18:25– 18:30	<b>P. Chakrov</b>	IAEA	Summary and Closing

## WEDNESDAY, 13 NOVEMBER 2024

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

**Chairpersons:**    J. Christensen, IAEA

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

## THURSDAY, 14 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
08:30–08:50	285	<b>E. Helvenston</b>	USA	Regulatory Oversight of Research Reactors
08:50–09:05	229	<b>S. Zhao</b>	China	Regulatory Supervision of Research Reactors in China
09:05–09:20	108	<b>F. Keles</b>	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	<b>M. Akpanowo</b>	Nigeria	Regulatory Oversight of the Nigeria Research Reactor - 1
09:35–09:50	55	<b>O.Y. Kutlu</b>	Turkey	Implementation of Recommendations and Lessons Learned from INSARR Mission on TR-2 Research Reactor
09:50–10:00		<b>Q&amp;A</b>		
<b>10:00–10:30</b>	<b>Poster Session B and Coffee Break</b>			
<b>10:30–11:00</b>	<b>Poster Session B – Check Annex II</b>			

## THURSDAY, 14 NOVEMBER 2024

11:00–12:30      **SESSION 7A:**      **(Plenary- M Building)**  
**Common Management Considerations**

**Chairpersons:**    **H. Yang, China**  
                          **E. Vargas, IAEA**

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
11:00–11:25	287	<b>P. Chakrov</b>	IAEA	Key-note speaker
11:25–11:40	273	<b>H. Yang</b>	China	CIAE Experience of Handling Interface Between Safety and Security for Research Reactors
11:40–11:55	67	<b>L. Sklenka</b>	Czech Republic	Development of National Strategy for Decommissioning of Research Reactors in the Czech Republic
11:55–12:10	235	<b>L. Dghaimat</b>	Jordan	Safety Culture Program in the Jordan Research and Training Reactor
12:10–12:30		<b>Q&amp;A</b>		
<b>12:30–13:30</b>	<b>Lunch Break</b>			



## THURSDAY, 14 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
13:30– 13:55	118	<b>J. Matouskova</b>	Czech Republic	Neutron Imaging at Low and Medium Flux Neutron Sources
13:55– 14:10	227	<b>A. Venter</b>	South Africa	Beam Line Facilities at the Safari-1 Research Reactor and their Progression into the New Multi-Purpose Reactor
14:10– 14:25	53	<b>S. Zhong</b>	China	Progress in Construction of Neutron Stress Diffractometer "Hetu" and Small Neutron Scattering Spectrometer "Luoshu" of Shanghai Jiao Tong University
14:25– 14:40	6	<b>D. Khalil</b>	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		<b>Q&amp;A</b>		
<b>15:00–15:30 Poster Session B and Coffee Break</b>				

## THURSDAY, 14 NOVEMBER 2024

15:30–17:30      **SESSION 2C:**  
**Operation and Maintenance**

**(Plenary- M Building)**

**Chairpersons:**    **A. Salvini, Italy**  
                          **R. Mazzi, IAEA**

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
15:30– 15:55	86	<b>L. Stefanini</b>	Netherlands	Condition Based Maintenance for Research Reactors
15:55– 16:10	199	<b>V. Cao</b>	Vietnam	Forty Years of Operation and Exploitation of the Dalat Nuclear Research Reactor
16:10– 16:25	20	<b>P. Dordoh-Gasu</b>	Ghana	Over Two Decades of Operation of Ghana Research Reactor-1: Maintenance Practices and Lessons Learned
16:25– 16:40	43	<b>F. Kungurov</b>	Uzbekistan	Operation and Maintenance of WWR-SM Research Reactor in Uzbekistan
16:40– 16:55	30	<b>N. Jahan</b>	Bangladesh	Operational Experiences and Ageing Management of BAEC TRIGA Research Reactor
16:55– 17:10	7	<b>D. Stanciu</b>	Romania	Experience with Major Repairs and Refurbishment at TRIGA 14MW Open Pool Reactor
17:10– 17:30		<b>Q&amp;A</b>		

## THURSDAY, 14 NOVEMBER 2024

17:30–18:30      **SIDE EVENT 5:**      (Plenary- M Building)  
**Women at Research Reactors: Challenges**  
**and Opportunities (WiN Global & IAEA)**

**Chairpersons:**    A. Elrafaei, IAEA

<b>Time</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
17:30–17:35	<b>L. Evrard</b>	IAEA	Opening Remarks
17:35–18:10	<b>S. Bustamante</b>	Chile	Debate
17:35–18:10	<b>J. Matouskova</b>	Czech Republic	Debate
17:35–18:10	<b>L. Dghaimat</b>	Jordan	Debate
17:35–18:10	<b>A. Mozagba</b>	South Africa	Debate
17:35–18:10	<b>L. Hu</b>	USA	Debate
18:10–18:25	<b>A. Elrafaei</b>	IAEA	Q&A
18:25–18:30	<b>A. Elrafaei</b>	IAEA	Summary and Closing

\*\*\* Note: As of 1/10, Amal has added on 3 additional participants: Unknown names

## FRIDAY, 15 NOVEMBER 2024

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

**(Plenary- M Building)**

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

<b>Time</b>	<b>Paper No.</b>	<b>Name</b>	<b>Designating Member State/Organization</b>	<b>Title</b>
08:30–08:55	283	<b>R. Mikolajczak</b>	Poland	Radioisotope Production in MARIA Research Reactor
08:55–09:10	211	<b>J. Amda</b>	Indonesia	Maximizing the Potential of Research Reactors in Indonesia for Radioisotope Production and Advancement in Medical Technology
09:10–09:25	197	<b>J. Antoine</b>	Jamaica	The Forensic Science Applications of the JM-1 SLOWPOKE Research Reactor
09:25–09:40	111	<b>L. Snoj</b>	Slovenia	Towards Optimized Use of Research Reactors in Europe – TOURR project: Strategy for upgrading existing and building new Research Reactors
09:40–10:00		<b>Q&amp;A</b>		
<b>10:00–10:30</b>		<b>Coffee Break</b>		



**FRIDAY, 15 NOVEMBER 2024****12:30–13:00 CLOSING SESSION****(Plenary- M Building)**

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

**IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT**

To be completed later

To be completed later

DRAFT

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### **2024**

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### **2025**

The Third International Conference on Applications of Radiation Science and Technology (ICARST-2025), 7-11 April 2025, Vienna, Austria

International Conference on Stakeholder Engagement for Nuclear Power Programmes, 26-30 May 2025, Vienna, Austria

30th IAEA Fusion Energy Conference, 13-18 October 2025, Xi'An, China

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## ANNEX I

### Poster Presentations

**TUESDAY, 12 NOVEMBER 2024**

**15:00–16:00 POSTER SESSION A:  
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 k <sub>0</sub> -based neutron activation analysis laboratory at NUR Research reactor
1	Algeria	Lylia Hamidatou-Alghem	144	Status of the k <sub>0</sub> -Neutron Activation Analysis method using NUR Nuclear Research Reactor: Development and Application
2	Algeria	Said Touati	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	Ksenia Nikolaeva	252	CENTER FOR NUCLEAR TECHNOLOGY RESEARCH AND DEVELOPMENT IN BOLIVIA: PROJECT STATUS
3	Brazil	DANIEL HONORIO, Marcelo Zanellati de Jesus	237	Balancing Development and Preservation: Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB)
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 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
7	Egypt	Wafaa Bakr	159	Analysis of the Reported Research reactor events; Management system point of view
3	Ethiopia	Ashabir Tesfaye KENO	134	Nationwide Assessment of Human Resources of Nuclear Science and Technology for Ethiopian First Research Reactor
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
7	France	Jonathan RUILLE	107	Use of the graded approach in inspections of integrated management systems at two licensees (Laue-Langevin Institute and CEA)
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	Danung Rismawan	71	MODEL OF SAFETY PERFORMANCE INDICATOR ASSESSMENT IN RESEARCH REACTOR BASED ON THE

				REGULATORY INSPECTION PERSPECTIVE IN INDONESIA
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
2	Indonesia	Zulfikar Bhagaskara	11	Development of Digital Instrumentation for Research Reactor
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
7	Jordan	Ahmad Alsabbagh, Lujain Khalailah	196	Investigating Stakeholder Perceptions of Jordan's Research and Training Reactor: A Survey-Based Approach
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	Akram Al-Ibraheem	238	<sup>177</sup> Lu-PSMA Radioligand Therapy Efficacy in Heavily Pretreated Metastatic Prostate Cancer Patients Treated at King Hussein Cancer Center (KHCC) in Jordan: a Glimpse of Radiotheranostics in the Arab World
1	Jordan	Altaieb Mohammad Ababneh, Hamza Almomani, Mohammad Elkhaeiry	132	HKJ (Jordan) <sup>99m</sup> Tc Extractor, Design Improvement and Performance Enhancement
1	Jordan	Hibatallah Nimer	146	JRTR RIPF Best Practices Applied in Iodine-131 Packaging & Dispatching Process
1	Jordan	Kamal Harahsheh, Ahmad Alsabbagh	175	Application of Neutron Activation for the Analysis of Rare Earth Elements
1	Jordan	Khaleel Qabajeh	177	I-131 Production Capacity and Method Applied at JRTR.
2	Jordan	MO'ATH ABUTO'AMAH	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
3	Jordan	Reem Khrais	231	From Misconceptions to Engagement The Impact of Social Media on Nuclear Energy Promotion in Jordan
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.
7	Malaysia	julia abdul karim	50	Managing and Sustaining the Safe Use of the PUSPATI TRIGA Reactor (RTP) in Malaysia: Challenges, Lesson Learned and Good Practices
3	Mongolia	MUNKHBAT Byambajav	110	The Current Status of Research Reactor Project in Mongolia
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 PGAA 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
2	Peru	Frederico GENEZINI	195	THERMAL NEUTRON FLUX PROFILE CHARACTERIZATION ON THE IEA-R1 NUCLEAR SAFETY MONITORING CHANNEL
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	Phillipines	Alvie Asuncion-Astronomo	121	Continuous and pulse-mode operation of a TRIGA-fueled subcritical assembly
3	Phillipines	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 (IRL) FOR CAPACITY BUILDING: TANZANIA CASE
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.
2	USA	Nathan Manwaring	46	Experience with Nuclear Test Design to Optimize Usefulness and Sustainability of the Advanced Test Reactor (ATR)

## ANNEX II

### Poster Presentations

**THURSDAY, 14 NOVEMBER 2024**

**10:00–11:00 POSTER SESSION B:  
SESSIONS 4, 5, 6**

**M Building Corridor**

Session	Designating Member State	Presenters	Id	Title
4	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	Algeria	Dahia Ahmed	156	Numerical simulation of SB-LOCA transient accident during leakage in water supply cooling system of research Reactor
4	Algeria	Djillali Saad	158	The PCT uncertainty and sensitivity analysis of Es-Salam reactor fuel rods during steady-state operations
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	Algeria	Samir Mazidi	165	Deterministic method for estimation of main neutronic safety parameters of NUR research reactor core
4	Algeria	Adnane Messai	170	Implementation of a Digital Reactivity-meter Using Xilinx Zynq System on Chip (SoCs) Devices
6	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	Argentina	Alicia Doval	97	A reviewed approach to Operational Limits and Conditions and Operating Procedures
4	Argentina	Fabricio Brollo	168	Periodic Safety Review Process in RA-6 Research Reactor
4	Argentina	Enzo Beretta	169	A framework for the Research Reactors Deterministic Safety Analysis supported with specific software development and QA tools
4	Argentina	Lucas Claramonte	171	Best Estimate Deterministic modeling approach for Probabilistic Safety Assessment support
4	Argentina	Cristian Vega	181	Licensing approach for Loss Of Coolant Accident used in the



				Deterministic Safety Analysis of Research Reactors
4	Argentina	Luis Barrios	208	Advances and challenges in the application of periodic safety reviews in research reactors.
4	Bangladesh	Mohammad Abdul Motalab	85	Neutronics and Thermal-Hydraulics Coupling for Small Research Reactor Core Simulation: Methodological Development and Validation
4	Canada	Chelsea Trudeau	263	Aging Management in the ZED-2 Research Reactor
4	China	Yao Lu	192	Construction and Analysis of a Multi-layer Cylindrical Fuel Reactor Verification Benchmark using Monte Carlo Techniques
4	Colombia	Edgar Mauricio Lopez Rodriguez	219	EFFECT OF CADMIUM SPECIES ON THE VARIATION OF KINETIC PARAMETERS IN THE IAN-R1 NUCLEAR RESEARCH REACTOR
6	Colombia	Jose Antonio Sarta Fuentes	242	RADIOACTIVE INVENTORY OF TRIGA FUEL ELEMENTS IN THE IAN-R1 RESEARCH REACTOR
4	Democratic Republic of Congo	Petrus Bompere Lemo	90	CNPRI Regulatory Supervision of Research Reactor during extended shutdown state: Current inspections and future plan
4	Egypt	Abdefattah Ali	4	Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor
4	Egypt	Moustafa Ibrahim	9	Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility
4	Egypt	Hesham Elkhatib	40	Safety Enhancement of the Egypt Second Research Reactor to Reduce the Effect of Loss Off-Site Power Supply
4	Egypt	Mohamed Esawy	64	Ageing Management of ETRR-1 during Extended Shutdown to Support its Restart or Decommissioning Option
4	Egypt	Magdy Abdelaal	73	Analytical Model for the First Periodic Safety Review of Nuclear Research Reactors in Light of National Regulations and International Recommendations
5	Egypt	Omar Abdelgawad	174	DEVELOPMENT OF NUCLEAR SECURITY RISK MODEL FOR RESEARCH REACTORS AND ASSOCIATED FACILITIES
4	Egypt	Nageib Ashoub	186	Safety Analysis of Positive Reactivity in Research Reactor during Loss of Flow (LOF) Accident
4	Egypt	Hassan Hassan	187	Safety Analysis of Loss of Flow Accident in MTR Research Reactor

4	Egypt	Mohamed Hanaa Abou Gabal	213	Modeling and characterization of beryllium reflector elements under irradiation conditions
4	Egypt	Amany Arafa	216	Study of Positive Reactivity in Research Reactor During Rod Ejection Accident
5	Egypt	Nesma Elsokkary	221	Deep learning-based Dynamic Risk Assessment Framework for Research Reactor Using Monitoring Data
4	Egypt	Mohamed Gaheen	234	Review of Thermal hydraulic Safety Aspects of Research Reactor Core
6	Ghana	Sylvester Attakorah Birikorang	22	Utilization after the completion of Ghana's MNSR conversion from HEU to LEU and lessons learned
4	Ghana	Prince Amoah	26	Regulatory Oversight of Ghana's Research Reactor -Post Core Conversion.
4	Indonesia	Ade Awalludin	42	Regulatory Oversight of Nuclear Research Reactors in Indonesia: Policy Adjustments for Operational Challenges
6	Indonesia	Titik Sundari	68	Experiences in Indonesian Wet Storage of Spent Nuclear Fuels and the Future Challenges Including Decommissioning Case of Triga Bandung Reactor
5	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	Indonesia	Azizul Khakim	76	Safety analysis of Inadvertent control rods withdrawal of RSG GAS for various initial powers
4	Indonesia	Arifin Muhammad Wibowo	77	Application of Balis Smile as a Tool for Indonesian Nuclear Installation Facility Inspection and Safety Monitoring
5	Indonesia	Alfitri Meliana	80	The Necessity of Secure Transportation of Nuclear and Radioactive Materials for Indonesian Research Reactors
6	Indonesia	Titik Sundari	83	Spent Nuclear Fuels Testing and Inspections as a Part of Quality Management in The Indonesian Interim Storage for Spent Fuel
6	Indonesia	Argo Wicaksono	115	Benchmark for Neutronic Analysis of Kartini Reactor using SRAC2006 Code System
4	Jordan	Ghazal Al-Naddaf	38	A Prospective using Non-Destructive Examination Approach for Ensuring the Safety of Research Reactors Instrumentation
4	Jordan	Mohammed Omari, Sayel Marashdeh	101	The safety analysis of new Targets at the Jordan Research and Training Reactor

4	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	Jordan	Mohammad Abu-Shams	140	Effects of Grain Boundary Engineering on the Irradiation-Induced Damage in Beryllium Using Molecular Dynamics (MD) Simulation
4	Jordan	Mohammad Alqudah	143	Assessing the Consequences of a Hypothetical Accident at the JRTR
4	Jordan	Alaaddin Alnajjar	162	Radiological Protection Program at Jordan Research and Training Reactor (JRTR): Experience, challenges and Best Practices for Safe and Sustainable Operation
4	Jordan	Sajedah Alameer	163	Tritium around Jordan Research and Training Reactor
4	Jordan	Mohammed Utoom	232	DESIGNING A PROGRAMME TO ASSESS AND CALCULATE THE TOTAL RADIATION DOSE FOR RADIATION WORKERS
4	Jordan	Akram Al-Ibraheem	239	An Overview of Appropriate Medical Practice in Emergency Response to Radiological and Nuclear Emergencies: An Insight from the Middle East
6	Libya	TARIQ Malatim	81	Modification of Tajoura Research Reactor Fuel Elements Dimensions - Neutronic simulation
4	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	Malaysia	Mazleha Maskin	79	Fire Probabilistic Safety Assessment: An Evaluation at Reactor TRIGA PUSPATI Control Room
6	Nigeria	Nasiru-Deen Bello	25	HEU TO LEU FUEL CONVERSION FOR NIRR-1: A REGULATORY PERSPECTIVE
4	Nigeria	SUNDAY JONAH	74	THE NIGERIA RESEARCH REACTOR-1: Operational Safety and Optimal Utilization Five Years After Conversion to LEU
4	Nigeria	Nuruddeen Abubakar	92	RECENT CHALLENGES IN NIRR-1 AND IAEA SUPPORT TOWARDS OPERATIONAL SAFETY ENHANCEMENT AND COMPLIANCE WITH NEW NATIONAL REGULATIONS
4	Nigeria	John Simon	94	Modeling Atmospheric Dispersion of Radionuclides Released from NIRR-1 LEU Core: Implications for Decommissioning Planning

5	Nigeria	Yakubu Ibrahim	188	Approach to Nuclear Security at the Nigeria Research Reactor-1 Facility
4	Pakistan	Shahbaz Ali Nasir Bhatti	58	PNRA Experience of Regulating Research Reactor and Molybdenum Production Facility (MPF) during Construction and Operation Phases
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