

International Conference on Research Reactors:

Addressing Challenges and Opportunities to Ensure Effectiveness and Sustainability

25–29 November 2019, Buenos Aires, Argentina



PROGRAMME

Organized by the



IAEA

International Atomic Energy Agency

Hosted by the
Government of Argentina



through the
National Atomic Energy Commission (CNEA)

Programme Committee (IAEA):

O. Calzetta, Chairman, Argentina
Al. Adams, USA
G. Bignan, France
K. Mrabit, Morocco
S. Park, Republic of Korea
D. Vysotsky, Russia
A. Shokr, IAEA
N. Barradas, IAEA
R. Sharma, IAEA
D. Shull, IAEA
F. Barrio, IAEA

Rapporteur: H. Abou Yehia, France

IAEA Secretariat:

Scientific Secretaries: A. Shokr
N. Barradas
R. Sharma

Event Organizer: M. Neuhold
S. Padmanabhan

Administrative Support: A. Ghoneim,
L. Parokkil

Location of the Event:

Hotel Panamericano, Buenos Aires
Carlos Pellegrini 551, 1009 Buenos Aires,
Argentina

(Phone: +541143485000)

Working Language: English

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

IAEA Mobile Conference Application



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Android



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View on up-to-date programme



Raise questions to speakers during session



Send message to other participants



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TIMETABLE

SUNDAY, 24 NOVEMBER 2019

Time	Session No.	Session Title / Break
15:00–20:00		Registration
18:00–20:00		Welcome Reception (Hotel Panamericano)

MONDAY, 25 NOVEMBER 2019

Time	Session No.	Session Title / Break
08:30–09:30		Registration
09:30–10:00		Official Opening
10:00–11:45	1	Utilization and Applications
11:45–13:30		<i>Lunch Break</i>
13:30–15:00	1	Utilization and Applications
15:00–15:30		<i>Poster Session and Coffee Break</i>
15:30–17:30	2	Operation and Maintenance
17:30–17:45		<i>Group Photo</i>

TUESDAY, 26 NOVEMBER 2019

Time	Session No.	Session Title / Break
08:30–10:00	4	Safety of Research Reactors
10:00–10:30		<i>Poster Session and Coffee Break</i>
10:30–12:15	4	Safety of Research Reactors
12:15–13:30		<i>Lunch Break</i>
13:30–15:00	7	Common Management Considerations
15:00–15:30		<i>Poster Session and Coffee Break</i>
15:30–17:30	2	Operation and Maintenance
20:00-		Conference Dinner and Tango show

WEDNESDAY, 27 NOVEMBER 2019

Time	Session No.	Session Title / Break
08:30–10:00	3	New Research Reactor Programmes
10:00–10:30		<i>Poster Session and Coffee Break</i>
10:30–12:15	5	Security of Research Reactors
12:15–13:30		<i>Lunch Break</i>
13:30–15:00	3	New Research Reactor Programmes
15:00–15:30		<i>Poster Session and Coffee Break</i>
15:30–17:30	6	Fuel Management and Decommissioning
17:30–18:30		Side Events

THURSDAY, 28 NOVEMBER 2019

Time	Session No.	Session Title / Break
08:30–10:00	4	Safety of Research Reactors
10:00–10:30		<i>Poster Session and Coffee Break</i>
10:30–12:15	4	Safety of Research Reactors
12:15–13:30		<i>Lunch Break</i>
13:30–15:00	1	Utilization and Applications
15:00–15:30		<i>Poster Session and Coffee Break</i>
15:30–17:30	2	Operation and Maintenance
17:30–18:30		Side Events

Friday, 29 November 2019

Time	Session No.	Session Title / Break
08:30–10:00	1	Utilization and Applications
10:00–10:30		<i>Coffee Break</i>
10:30–12:15	7	Common Management Considerations
12:15–13:30		Summary, Recommendations, and Closing Remarks
13:30–15:00		<i>Lunch Break</i>
13:30–19:00		Technical Tour

MONDAY, 25 NOVEMBER 2019

08:30 REGISTRATION

09:30-10:00 CONFERENCE OPENING

J.C. Lentijo

Deputy Director General, Head of the
Department of Nuclear Safety and Security

Opening Remarks by IAEA

J. Gadano

Undersecretary of Nuclear Energy, Argentina

**Opening Remarks by
Argentina**

**10:00–11:45 SESSION 1:
Utilization and Applications**

Chair: M. Venkatesh, India

Co-Chair: K. Eberhardt, Germany

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
10:00–10:25	O.1.01. (Keynote)	N. Pessoa Barradas	IAEA	IAEA Activities on Utilization and Application of Research Reactors
10:25–10:50	O.1.02. (Invited)	M. Venkatesh	India	Global Trends in the Use of Medical Radioisotopes and the Vital Role of Research Reactors in Their Production
10:50–11:05	O.1.03.	N. Mohamed	Egypt	Design Strategies for Optimizing the Production of Ir-192 Using the Current Operation Scheme of ETRR-2
11:05–11:20	O.1.04.	G. Wakabayashi	Japan	Present Status of UTR-KINKI
11:20–11:35	O.1.05.	A. Salvini	Italy	Pilot Integrated Research Reactor Utilization Review (IRRUR) Mission to LENA TRIGA Mk II: Lessons Learned
11:35–11:45	Questions and Answers			
11:45–13:30	<i>Lunch Break</i>			

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

Chair: M. Kaminaga, Japan

Co-Chair: G. Bignan, France

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
13:30–13:55	O.1.06. (Invited)	K. Unlu	USA	Strategies for Effective and Sustainable Utilization of Small and Medium Size Research Reactors
13:55–14:10	O.1.07.	P. Cantero	Argentina	Internet Reactor Laboratory Project IRL in Argentina
14:10–14:25	O.1.08.	C. El Younoussi	Morocco	Internet Reactor Laboratory Project (IRL): An Effective Collaboration Between CNESTEN and IAEA to Support Nuclear Education in Africa
14:25–14:40	O.1.09.	S. Mirvakili	Iran	Role of Research Reactors as Infrastructure for Nuclear Technology in Iran
14:40–15:00	Questions and Answers			
15:00–15:30	<i>Poster Session and Coffee Break</i>			

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

Chair: V. Juříček, Czech Republic

Co-Chair: C. Grant, Jamaica

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
15:30–15:55	O.2.01. (Keynote)	R. Sharma	IAEA	IAEA Activities in Support of Operation and Maintenance of Research Reactors
15:55–16:20	O.2.02. (Invited)	J. Du Bruyn	South Africa	Operation and Maintenance of SAFARI-1 Research Reactor: Challenges and Opportunities in Long Term Operation of Research Reactors

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
16:20–16:35	O.2.03.	N. Abubakar	Nigeria	Systematic Approach to The Development of an Operational Ageing Management Programme for the Nigeria Research Reactor-1
16:35–16:50	O.2.04.	M. Shohag	Bangladesh	Operation and Maintenance Experience, Ageing Management and Challenges & Opportunities of BAEC TRIGA Research Reactor
16:50–17:05	O.2.05.	F. Genezini	Brazil	The IEA-R1 62 Years of Operation: Experiences and Lessons Learned
17:05–17:20	O.2.06.	O. Diakov	Ukraine	Problems of Ensuring the Sustainability of the WWR-M Research Reactor
17:20–17:30	Questions and Answers			
17:30–17:45	<i>Group Photo</i>			

TUESDAY, 26 NOVEMBER 2019

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

Chair: **B. Smith, USA**

Co-Chair: **A. Shokr, IAEA**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
08:30–08:55	O.4.01. (Keynote)	A. Shokr	IAEA	Safety Enhancement of Research Reactors – IAEA Programme and Activities
08:55–09:10	O.4.02.	F. Nicolas	France	Handling Safety of Research Reactors in France
09:10–09:25	O.4.03.	F. Fejt	Czech Republic	Extended Safety Reassessment of Reactor VR-1 with New National Nuclear Law
09:25–09:40	O.4.04.	M. Scibetta	Belgium	The Committee for Evaluation of Experiments a Key to Safety of MTR
09:40–10:00	Questions and Answers			
10:00–10:30	<i>Poster Session and Coffee Break</i>			

10:30–12:15 **SESSION 4:**
Safety of Research Reactors

Chair: **S. Kanamori, France**

Co-Chair: **K. Sung, Republic of Korea**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
10:30–10:55	O.4.05. (Invited)	Al. Adams	USA	The Effective Application of the IAEA Code of Conduct on the Safety of Research Reactors in the Regulation of Research and Test Reactors at the U.S.-NRC
10:55–11:10	O.4.06.	S. Nemtsova	Ukraine	Regulatory Supervision and the Status of the Neutron Source Licensing in Ukraine
11:10–11:25	O.4.07.	G. Lazaro	Peru	Standardization of the Inspection Process for Nuclear Research Reactors (FORO)

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
11:25–11:40	O.4.08.	A. Awalludin	Indonesia	Regulations and Safety Aspects of TRIGA 2000 Bandung Reactor Fuel Conversion
11:40–11:55	O.4.09.	E. Rétfalvi	Hungary	Hungarian Results in the EU Topical Peer Review of Ageing Management
11:55–12:15	Questions and Answers			
12:15–13:30	<i>Lunch Break</i>			

**13:30–15:00 SESSION 7:
Common Management Considerations**

Chair: H. Vogel, USA

Co-Chair: A. Shokr, IAEA

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
13:30–13:55	O.7.01. (Keynote)	A. Shokr	IAEA	Management of the Interface Between Nuclear Safety and Security for Research Reactors
13:55–14:10	O.7.02.	T. Le	USA	Exploring Organizational Governance of Nuclear Security in Research Reactors
14:10–14:25	O.7.03.	A. Sapozhnikov	Russia	Implementation of a Graded Approach in the Regulatory System of Nuclear Facilities: Challenges and Opportunities
14:25–14:40	O.7.04.	M. Trapp	Germany	A Possible Application of the Graded Approach to German Research Reactors
14:40–15:00	Questions and Answers			
15:00–15:30	<i>Poster Session and Coffee Break</i>			

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

Chair: **Y. Li, China**

Co-Chair: **R. Sharma, IAEA**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
15:30–15:55	O.2.07. (Invited)	S. Wetchagarun	Thailand	Experience with Modernization of I&C at TRR-1/M1
15:55–16:10	O.2.08.	Y. Zhang	China	The Possibilities and Challenge of SPR Under Over-life Operation Condition in CIAE
16:10–16:25	O.2.09.	L. Nahari	Indonesia	Modelling of Nuclear Protection System Reliability in the RSG-GAS Research Reactor
16:25–16:40	O.2.10.	B. Achuthan	India	Challenges of Operation and Maintenance of Two Research Reactors (Fast Breeder and KAMINI Research Reactor) of Diverse Design
16:40–16:55	O.2.11.	N.D. Nguyen	Vietnam	Status of Dalat Research Reactor Utilization and a New Research Reactor Project
16:55–17:10	O.2.12.	F.R. Kungurov	Uzbekistan	WWR-SM Research Reactor Operation and Maintenance
17:10–17:30	Questions and Answers			

WEDNESDAY, 27 NOVEMBER 2019

08:30–10:00 **SESSION 3:**
New Research Reactor Programmes

Chair: **H. Blaumann, Argentina**

Co-Chair: **T. Tielens, Netherlands**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
08:30–08:55	O.3.01. (Keynote)	R. Sharma	IAEA	IAEA Activities in Support of Member States in Establishing Infrastructure for New Research Reactor Programme
08:55–09:20	O.3.02. (Invited)	H. Blaumann	Argentina	Status Report of RA-10 Research Reactor
09:20–09:35	O.3.03.	J.-P. Coulon	France	JHR Start-Up Equipments and Experimental Utilities to prepare commissioning
09:35–09:50	O.3.04.	T. Tielens	Netherlands	Building a Sustainable Research Reactor through Stakeholder Involvement – the Case of PALLAS
09:50–10:00	Questions and Answers			
10:00–10:30	<i>Poster Session and Coffee Break</i>			

10:30–12:15 **SESSION 5:**
Security of Research Reactors

Chair: **B. Srimok, Thailand**

Co-Chair: **D. Shull, IAEA**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
10:30–10:55	O.5.01. (Keynote)	D. Shull	IAEA	IAEA Nuclear Security Activities in Support of Research Reactors
10:55–11:20	O.5.02. (Invited)	K. Mrabit	Morocco	Nuclear Security for Research Reactors
11:20–11:35	O.5.03.	M. Addo	Ghana	Enhancing Nuclear Security at the Ghana Research Reactor-1 (GHARR-1) Facility of the Ghana Atomic Energy Commission (GAEC)

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
11:35–11:50	O.5.04.	A. Sfetsos	Greece	Identifying Attractive Targets for Research Reactors and Associated Facilities – IAEA CRP
11:50–12:05	O.5.05.	M. Mladenovic	Serbia	Implementing the Nuclear Security Measures on Nuclear Research Reactors
12:05–12:15	Questions and Answers			
12:15–13:30	<i>Lunch Break</i>			

**13:30–15:00 SESSION 3:
New Research Reactor Programmes**

Chair: S. I. Wu, Republic of Korea

Co-Chair: B. Nyarko, Ghana

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
13:30–13:55	O.3.05. (Invited)	A. Tuzov	Russia	Progress in the MBIR Construction and RIAR's SM-3 Reactor Core Refurbishment Project
13:55–14:10	O.3.06.	M. Al Qahtani	Saudi Arabia	Design Characteristics of LPRR
14:10–14:25	O.3.07.	S. Kim	Republic of Korea	Licensing Experience with the Safety Review and Assessment for Construction License for New Research Reactor in Korea, KJRR
14:25–14:40	O.3.08.	A. Ben-Ismaïl	Tunisia	Feasibility Study for Subcritical Assembly
14:40–15:00	Questions and Answers			
15:00–15:30	<i>Poster Session and Coffee Break</i>			

**15:30–17:30 SESSION 6:
Fuel Management and Decommissioning**

Chair: M. Budu, Russia

Co-Chair: F. Marshall, IAEA

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
15:30–15:55	O.6.01. (Keynote)	F. Marshall	IAEA	IAEA Activities Related to the Research Reactor Fuel Cycle
15:55–16:20	O.6.02. (Invited)	P. Ameglio	Australia	Spent Fuel Management for Research Reactors: Challenges and Strategies
16:10–16:35	O.6.03.	S. Semenov	Russia	Spent Fuel Management of the MR and RFT Research Reactors at Stage of Preparation for their Decommissioning
16:35–16:50	O.6.04.	I. Erdebil	Canada	Regulatory Oversight of Decommissioning of SLOWPOKE-2 Research Reactor
16:50–17:05	O.6.05.	M. Budu	Romania	Contribution to IAEA Publication on Research Reactor Spent Fuel Management
17:05–17:20	O.6.06.	A. Septilarso	Japan	Analyses on Project Management Parameters in Decommissioning a Research Reactor
17:20–17:30	Questions and Answers			

SIDE EVENTS 1:**17:30–18:30 Safety Enhancement of Research Reactors Based on the IAEA INSARR Safety Review Service****Chair: A. Shokr, IAEA**

Time	Name	Designating Member State/ Organization	Topic
17:30–17:40	A. Shokr	IAEA	IAEA INSARR Service and Overview of its Results
17:40–18:00	J. Offerein M. Koenen C. Grant	Netherland Netherland Jamaica	Experience and Benefits with IAEA INSARR Missions
18:00–18:25	H. Abou Yehia	France	Q&A Session
18:25–18:30	A. Shokr	IAEA	Summery and Closing

SIDE EVENTS 2:**17:30–18:30 Nuclear Security Enhancement of Research Reactors based on the IAEA IPPAS Missions****Chair: D. Shull, IAEA**

Time	Name	Designating Member State/ Organization	Topic
17:30–17:40	K. Horvath	IAEA	IAEA IPPAS Missions and Goals
17:40–18:10	P. Marzano M. Addo E. Retfalvi R. Palapa J. L. Castro	Australia Ghana Hungary Indonesia Peru	Panel Discussion: IAEA IPPAS Missions-Benefits and Lessons Learned
18:10–18:25	K. Horvath	IAEA	Q&A Session
18:25–18:30	K. Horvath	IAEA	Summery and Closing

THURSDAY, 28 NOVEMBER 2019

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

Chair: **N. Masriera, Argentina**

Co-Chair: **J. Istiyanto, Indonesia**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
08:30–08:55	O.4.10. (Invited)	C. Perrin	Argentina	Safety Review of Research Reactors in Argentina
08:55–09:10	O.4.11.	A. Carpentier F. Nicolas	France	Periodic Safety Review of Research Reactors: Grading the Scope and Extent of Regulatory Review
09:10–09:25	O.4.12.	D. Vittorio	Australia	Periodic Safety and Security Review Plan or the OPAL Reactor
09:25–09:40	O.4.13.	M. Gaheen	Egypt	Establishment of a PSR Project for ETRR-2
09:40–10:00	Questions and Answers			
10:00–10:30	<i>Poster Session and Coffee Break</i>			

10:30–12:15 **SESSION 4:**
Safety of Research Reactors

Chair: **M. Gaheen, Egypt**

Co-Chair: **Al Adams, U.S.**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
10:30–10:55	O.4.14. (Invited)	J. Offerein	Netherlands	Leadership and Management for Safety at NRG
10:55–11:10	O.4.15.	S. Rashid	Pakistan	PNRA Process for Utilization of Operating Experience Feedback for Safety of Research Reactors in Pakistan
11:10–11:25	O.4.16.	M. Grinberg	Argentina	Approaches in Development of PSA for Research Reactors
11:25–11:40	O.4.17.	K. Niedzwiedz	Germany	Lessons Learned from the Fukushima Accident – Challenges and Best Practices in the Safety Improvements for German Research Reactors

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
11:40–11:55	O.4.18.	A. Belchior Jr A. C. Santos	Brazil	Analytical and Experimental Analysis on Safety Related Aspects of the RMB Research Reactor
11:55–12:15	Questions and Answers			
12:15–13:30	<i>Lunch Break</i>			

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

Chair: C. Chilian, Canada

Co-Chair: N. Pessoa Barradas, IAEA

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
13:30–13:55	O.1.10. (Invited)	S. Choi	Republic of Korea	Cooperation in Neutron Beam Research in Asia and Pacific Region
13:55–14:10	O.1.11.	L. Sklenka	Czech Republic	Enhancing Experimental Capabilities of the Training Reactor VR-1 through Building VR-2 Subcritical Assembly and New Laboratories
14:10–14:25	O.1.12.	G. Sarabia	Argentina	Application of Cold Neutron Sources in Modern Research Reactors
14:25–14:40	O.1.13.	A. Burukin	Russia	Tests of LWR Fuels at JSC "SSC RIAR"
14:40–15:00	Questions and Answers			
15:00–15:30	<i>Poster Session and Coffee Break</i>			

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

Chair: P. Sumanth, India

Co-Chair: S. Jonah, Nigeria

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
15:30–15:55	O.2.13. (Invited)	P. Sumanth	India	On-Line Monitoring of Systems and Components in Research Reactors
15:55–16:10	O.2.14.	H. Obeng	Ghana	The Experience of Ghana in the Core Conversion Project
16:10–16:25	O.2.15.	B. Meffert	USA	Deterioration and Replacement of Reactor Water Cleanup System Resin Columns at MURR
16:25–16:40	O.2.16.	M. Dougdag	Algeria	Comparison Between Coolants Heat Behaviours on Thermal Striping Phenomenon in New Research Reactor Structures
16:40–16:55	O.2.17.	J. Milthorpe	Australia	Upgrade of the OPAL Reactor Distributed Control System
16:55–17:10	O.2.18.	A. Zuñiga	Peru	Hybrid Method for the Determination of the Average Neutron Flux in a Fuel Element of RP-10 and Comparison with Calculated Values Obtained with Serpent Code.
17:10–17:30	Questions and Answers			

SIDE EVENTS 3:**17:30–18:30 IAEA Peer Review Service – Operation and Maintenance Assessment for Research Reactors (OMARR)****Chair: R. Sharma, IAEA**

Time	Name	Designating Member State/ Organization	Topic
17:30–17:40	R. Sharma	IAEA	IAEA OMARR Service and Experience
17:40–18:00	F.R. Kungurov M. Shohag J. Pane	Uzbekistan Bangladesh Indonesia	Experience and Benefits with IAEA OMARR Mission
18:00–18:25	R. Sharma	IAEA	Q&A Session
18:25–18:30	R. Sharma	IAEA	Summery and Closing

SIDE EVENTS 4:**17:30–18:30 Contribution of International Centres Based on Research Reactors (ICERR) Network to Enhancement of Capacity Building****Chair: F. Marshall, IAEA**

Time	Name	Designating Member State/ Organization	Topic
17:30–17:40	F. Marshall	IAEA	ICERR: Objectives and Scope
17:40–18:00	G. Bignan A. Tuzov M. Scibetta H. Vogel S. Wu	France Russian Federation Belgium USA Republic of Korea	Panel Discussion: IAEA IPPAS Mission-Benefits and Lessons Learned
18:00–18:25	F. Marshall	IAEA	Q&A Session
18:25–18:30	F. Marshall	IAEA	Summery and Closing

FRIDAY, 29 NOVEMBER 2019

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

Chair: **J. Perrotta, Brazil**

Co-Chair: **D. Ridikas, IAEA**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
08:30–08:55	O.1.14. (Invited)	B. Schillinger	Germany	A Low-Cost High Quality Neutron Computed Tomography System
08:55–09:10	O.1.15.	N. Abdullah Salim	Malaysia	NAA Application in Authenticity and Traceability of Agro-Food Product: Malaysian Rice and Edible Birds' Nest (EBN)
09:10–09:25	O.1.16.	M. Santoso	Indonesia	Contribution of Neutron Activation Analysis for Nutritional Status Assessment of Children under Five in Java Indonesia
09:25–09:40	O.1.17.	M. Gryzinski	Poland	Radiobiology in Research Reactor MARIA (Biological Effects of Neutron in Cultured Colon Cancer Cells)
09:40–10:00	Questions and Answers			
10:00–10:30	<i>Coffee Break</i>			

10:30–12:15 **SESSION 7:**
Common Management Considerations

Chair: **R. Kuatbekov, Russia**

Co-Chair: **A. Salvini, Italy**

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
10:30–10:55	O.7.05. (Invited)	J. C. Niel	France	French Experience in Management of the Interface between Nuclear Safety and Security for Research Reactors
10:55–11:20	O.7.06. (Invited)	J. Perrotta	Brazil	Considerations and Challenges of Research Reactor Management

Time	Paper No.	Name	Designating Member State/ Organization	Title of Paper
11:20–11:35	O.7.07.	H. Elsayed	Egypt	Implementation of a Nuclear Knowledge Management Programme on Decommissioning of Research Reactors
11:35–11:50	O.7.08.	I. Maksimovic	Serbia	Experience with the Management of Heavy Water Research Reactor During the State of Extended Shutdown and Transition Period - Safety Considerations
11:50–12:05	O.7.09.	S. Acuña	Argentina	Safety Management and Integrated Management System for Nuclear Research Reactors, Used Approach and Experience from Argentina RA-6 Reactor
12:05–12:15	Questions and Answers			

12:15–13:15 **PANEL SESSION:
Summery Discussion, Conclusions and
Recommendations**

Chair: **O. Calzetta** **Argentina**

Experts **K. Mrabit** **Morocco**

Panel: **E. Pashina** **Russia**

M. Venkatesh **India**

Conference
Rapporteur: **H. Abou Yehia** **France**

13:15-13:30 CONFERENCE CLOSING

Young Professional Poster Awards

N. Mokhtar

Deputy Director General, Head of the Department
of Nuclear Science and Applications

Closing Remarks by IAEA

O. Calzetta

President of the Conference Programme
Committee, and President of CENA

Conference Closing

Conference Scientific Secretaries:

A. Shokr

NSNI/Research Reactor Safety Section

N. Barradas

NAPC/Physics Section

R. Sharma

NEFW/Research Reactor Section

13:30–19:00 Technical Tour

POSTER SESSIONS

Topics covered include:

- 1) Utilization and Applications
- 2) Operation and Maintenance
- 3) New Research Reactor Projects
- 4) Safety of Research Reactors
- 5) Security of Research Reactors
- 6) Fuel Management and Decommissioning
- 7) Common Management Considerations

POSTER SESSION 1

UTILIZATION AND APPLICATIONS

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.1.01.	M. Chiarvetto Peralta J. Longhino L. Vazqu�ez	Argentina	NPP Fuel Test Facility of RA-10 Reactor. Power Ramps Simulations, Mock-Up Design and Experimental Results
P.1.02.	P. Delgado M. Garay	Argentina	Design and Validation of a Process System for the RA-10 in Pool Neutrography Facility
P.1.03.	J. Longhino L. Torres J. Promet J. Lipovetzky M. Perez F. Bessia	Argentina	Development and Usage of a Device for Mixed Fields Detectors Characterization, Based on the BNCT Beam of the RA6 Reactor
P.1.04.	M. Reichenberger D. Imholte D. Choe J. Urban-Klaehn D.T. Miller G. Taylor L. D. Smith B. J. Walker S. G. Louk N. Woolstenhulme	USA	Modernization of the Radiation Measurements Laboratory at the Advanced Test Reactor Complex

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.1.05.	D. Mangiarotti P. Cantero S. Vaucheret F. Brollo F. Sanchez J. Longhino F. Maciel H. Blaumann	Argentina	IRL – Implementation in Latin America: Development of the RA6 Online Support Platform
P.1.06.	S. Jesus F. Ferreira V. Cunha R. Chaffin M. Souza A. Barbosa D. Voi L. Carvalheira J. Gadelha	Brazil	R&D, Education and Training at The ARGONAUTA RR
P.1.07.	U. Bitelli A. Santos R. Jerez R. Diniz M. Giada	Brazil	Main Experiments Performed in the IPEN/MB-01 RR Using UO ₂ Rodscore
P.1.08.	A. Salvini M. Clemenza D. Alloni	Italy	Design, Implementation and Future Utilization of the PGNAF Facility at the University of Pavia - LENA Laboratory
P.1.09.	W. Keil C. Sosa	Argentina	A Physics Real Remote Laboratory Practical Work Using the RA-0 Nuclear Reactor: Design and Implementation
P.1.10.	P. Bellino J. Huilca G. Huaccho Zavala R. Mercado P. Bazalar A. Ancieta J. Quispe A. Gamarra G. Vivanco W. Farro B. Vilcapaza A. Gomez	Argentina	Estimation of Kinetic Parameters and Power Calibration in Subcritical Configurations of the RP-10 Reactor
P.1.11.	A. Cintas	Argentina	Developing Standard Operation Procedures for the Silicon Doping Irradiation Service at RA-10

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.1.12.	A. Cintas A. Márquez B. Bortolato	Argentina	Neutronic Evaluation for the Production of Alternative Medical Radioisotopes in the RA-10 Reactor
P.1.13.	M. Carta D. Chiesa V. Fabrizio L. Falconi A. Grossi M. Nastasi M. Palomba E. Previtali P. Rancoita B. Ranghetti M. Tacconi	Italy	Experimental Characterization of the Neutron Flux in the TRIGA RC-1 Reactor.
P.1.14.	V. Fabrizio M. Carta L. Falconi A. Grossi M. Cesaroni A. Santagata P. Blaise B. Geslot	Italy	Neutron Characterization of the TAPIRO Fast Neutron Source Reactor After the Restoring of the Nominal Configuration.
P.1.15.	J. Santisteban G. Aurelio F. Cantargi F. Suárez K. Pierpauli A. Tartaglione M. Álvarez	Argentina	LAHN: the Argentinean Neutron Beam Laboratory of the RA-10 Reactor
P.1.16.	A. Arja C. Murua D. Almaraz	Argentina	Using the RA0 Nuclear Reactor for Developing an Optical Acquisition System Used in the Second Criticality Approach of the Embalse Power Plant
P.1.17.	C. Sosa C. Murúa A. Chautemps W. Keil	Argentina	Use of the Nuclear Reactor RA-0 for the Remote Training of Nuclear Reactor Staff
P.1.18.	M. Febrían Y. Setiadi	Indonesia	Current Development Status of Medical and Industrial Radioisotopes Production Research in TRIGA 2000 Research Reactor Indonesia
P.1.19.	M. Nasso P. Alberto A. Doval	Argentina	Validation of the Hydraulic Models of Molybdenum Irradiation RIGS for the Brazilian Multipurpose Reactor

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.1.20.	F. Bellino A. Doval F. Boschetti P. Alberto	Argentina	Experiences in Training Human Resources Using Educational Reactor Simulators
P.1.21.	L. Cruz D. Hergenreder F. Sardella	Argentina	Large Quantity Production of New Radioisotopes
P.1.22.	A. Johnson L. Gilde	USA	Educational Uses of the Maryland University Training Reactor
P.1.23.	A. Ancieta R. Mercado J. Quispe B. Vilcapaza G. Vivanco W. Farro A. Gamarra J. Huilca G. Zavala	Peru	The Basic Design of Irradiation Box for the Production Of 99 Molybdenum on RP10 Nuclear Research Reactor Using Resonance Neutrons
P.1.24.	X. Wang Nguyen T.S.	Canada	Reactor Physics Methods for Support of Irradiation Experiments in the National Research Universal Reactor (NRU)
P.1.25.	M. Scibetta J. Van den Bosh S. Dyck	Belgium	Possibilities of the BR2 Reactor as a Support Facility to Materials and Fuels R&D

POSTER SESSION 2

OPERATION AND MAINTENANCE

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.2.01.	M. Irigaray M. Chiarvetto M. Chocron L. Vazquez M. Conti	Argentina	Chemical Control for the Liquid Poison System of the Fuel Elements Irradiation Loop
P.2.02.	A. Giacobone E. Linardi	Argentina	Effect of Peroxide Hydrogen in the Corrosion of AA6061 Aluminum Alloy.
P.2.03.	H. Adamu Y. Ahmed	Nigeria	Conceptual Design of Data Acquisition System for NIRR-1 Maintenance
P.2.04.	A. Horváth S. Czifrus	Hungary	Feasibility to Increase the Excess Reactivity of the BME Training Reactor
P.2.05.	S. Kustituantini J. Pane K. Kamajaya R. Nazar W. Veronica A. Maulana	Indonesia	Conceptual Design of the Bandung Research Reactor Conversion
P.2.06.	C. Humphrey A. Sah L. Eeson	Australia	Optimisation of the Reactor Light Water Chemistry at the OPAL Research Reactor
P.2.07.	B. Piwowarski	Poland	Ageing Management of Concrete Structures in MARIA Research Reactor
P.2.08.	A. Asuncion-Astronomo R. Olivares K. Romallosa J. Marquez	Philippines	Utilizing the Philippine Research Reactor-1 TRIGA Fuel in a Subcritical Assembly
P.2.09.	M. Marticorena D. Babaglio S. Vaucheret R. Mayer M. Garrett J. Vignolo O. Peyrano	Argentina	RA 6 Research Reactor Automatic Condition Monitoring System Applications for Predictive Maintenance

POSTER SESSION 3

NEW RESEARCH REACTOR PROGRAMMES

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.3.01.	T. Amarjargal M. Byambajav D. Suren	Mongolia	Design Study on Research Reactor for Mongolia
P.3.02.	M. Ibrahim N. EL Sahlamy	Egypt	On Feasibility of Using Nitride Fuel in MTR Research Reactor Core: Comparison with U3O8 (LEU)
P.3.03.	R. Ahmed	Sudan	Identifying Challenges of Establishing a First Research Reactor in Sudan by Using Self-Assessment Methodology of National Nuclear Infrastructure
P.3.04.	G. Marinek H. Campodonico M. Peralta C. Díaz P. Delgado P. Cantero H. Blaumann	Argentina	Support to the Training of the RA-10 Future Operation Staff Through the Utilization of the Interactive Graphic Simulator
P.3.05.	G. Arias R. Versaci	Argentina	Materials Surveillance Program for the RA10 Research Reactor
P.3.06.	J. Perrotta A. Soares M. Lim C. Ibelli M. Barrera S. Koronsky M. Gambetta	Brazil	The RMB Project – Technical and Management Development Status
P.3.07.	A. dos Santos M. Yamaguchi L. Fanaro D. dos Santos G. de Souza F. Junqueira G. Silva A. Junior A. Prado T. Joao P. Rossi	Brazil	New Plate-Type Core of the IPEN/MB-01 Research Reactor Facility for Validation of RMB Project.

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.3.08.	C. Camusso F. Boschetti I. Ferrari D. Hergenreder J. Perrota A. Santos G. Sarabia A. Soares E. Villarino	Argentina	RMB Design Objectives
P.3.09.	J. Mburu H. Mpakany	Kenya	Kenya's Potential Utilization of a Research Reactor
P.3.10.	R. Pashayev	Azerbaijan	Consideration of the Relevant Issues to Improving Existed Infrastructure for the First Research Reactor Construction
P.3.11.	J. Ryu S. Wu H. Jung	Korea, Republic of	Project Status of Ki-Jang Research Reactor (KJRR) with Construction Permit
P.3.12.	N. Farjallah P. Blaise A. Ben-Ismaïl J. Politello M. Maillot M. Boyard J. Foulloy L. Manificier	Tunisia	Tunisia's Preliminary Subcritical Assembly Neutronic Design and Optimization
P.3.13.	M. Tufa G. Tesfaye	Ethiopia	Assessment of Needs, Development of User Community, Stakeholder Involvement and Strategic Planning for Research Reactor in Ethiopia
P.3.14.	C. Niane	Senegal	Strategic Plan for Utilization of Planned Research Reactor in Senegal

POSTER SESSION 4

SAFETY OF RESEARCH REACTORS

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.4.01.	E. Eisawy A. Khattab	Egypt	A Safety Assessment Methodology for a Digital Reactor Protection System of Research Reactors
P.4.02.	O. Kukhotskyi	Ukraine	Thermal Hydraulics Verification Safety Studies to Support the Licensing of Neutron Source Subcritical Facility
P.4.03.	B. Srimok V. Watcharasuragul	Thailand	Evaluation of The Methodology Using for and Determination of Probabilistic Inspection Frequency of Structures, Systems and Components of Thai Research Reactor 1- Modification 1 (TRR-1/M1)
P.4.04.	P. Ramírez M. Poos S. Ramirez D. Robaina P. Cantero H. Blaumann	Argentina	RA-10 Reactor Assessment of Defense in Depth as the Basis for the Safety Assessment and Licensing Process
P.4.05.	E. Beretta S. Papadakis R. Hilal M. Giménez	Argentina	Blackout Analysis for the RA-1 Reactor with a RELAP Model
P.4.06.	L. Claramonte F. Beretta S. Papadakis I. Braidá M. Gimenez	Argentina	Station Blackout Analysis for the RA-10 Reactor
P.4.07.	M. Caputo M. Grinberg C. Garay C. Mulleady M. Gimenez	Argentina	Methodology for Research Reactors Individual Workers Risk Estimation
P.4.08.	F. Spadavecchia P. Bellino	Argentina	Estimation of the Reactivity Parameter in a Nuclear Research Reactor
P.4.09.	A. Di Benedetto W. Keil	Argentina	Adaptation of the Safety Criteria for Research Reactors in Zero Power Reactors - Application for the RA0 Reactor

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.4.10.	A. Maître L. Mataloni E. Barberis F. Albornoz J. Perrotta	Argentina	The Design of the Primary Neutron Guide Shutters of the Brazilian Multipurpose Reactor; a Multidisciplinary Challenge
P.4.11.	F. Boschetti D. Hergenreder	Argentina	Validation of INVAP Kinetic Parameter Calculation Line
P.4.12.	S. Rashid A. Naeem M. Shah M. Malik B. Shah	Pakistan	Regulatory Oversight of Ageing Management for Long Term Operation of Research Reactors in Pakistan
P.4.13.	S. Jonah Y. Ahmed Y. Ibrahim	Nigeria	Safety Assessment of NIRR-1 Facility after Conversion from HEU TO LEU
P.4.14.	H. Graine A. Dadda K. Zenikhri	Algeria	Source Terms for Research Reactor
P.4.15.	G. Sarabia E. Villarino	Argentina	Nuclear Data: From ENDF to CITVAP Code for Safety Analysis
P.4.16.	L. Bedhesi D. Botes R. Pinsloo F. Van Heerden C. Jacobs A. Erlank	South Africa	Recent Developments in the OSCAR-5 Nodal Solver as Applied to the SAFARI-1 Reactor
P.4.17.	V. Smirnova E. Avdeev	Russian Federation	The Hydrodynamic Formation of Testing Sections in Research Reactor Units
P.4.18.	J. Lupiano Contreras A. Doval P. Alberto M. Delmastro	Argentina	Best Estimate Plus Uncertainty calculation approach in Safety Analysis
P.4.19.	L. Mataloni A. Doval	Argentina	Determination of Critical Variables for Thermal Modeling of a Container for the Transportation of Irradiated Targets

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.4.20.	A. Maître C. Camusso M. Miranda I. Ferrari S. Matzkin M. Brizuela F. Boschetti J. Perrotta A. Soares A. dos Santos	Argentina	Performance and Safety Aspects of the Pneumatic Irradiation System of the Brazilian Multipurpose Reactor
P.4.21.	I. Ferrari A. Maître P. Camusso D. Hergenreder S. Matzkin A. dos Santos J. Augusto Perrotta A. Jose Soares	Argentina	Neutronic and Radiation Protection Analysis of the Fuel Irradiation Facility of the Brazilian Multipurpose Reactor
P.4.22.	G. Quesada D. Estryk B. Betoño	Argentina	RA-10 RPS Qualification Program
P.4.23.	C. Verrastro J. Lee D. Estryk F. Rossi	Argentina	Reliability Analysis for Different Configuration of a TRIP Final Actuator Interface for Safety System of Research Reactor
P.4.24.	E. Villarino	Argentina	Neutronic and Thermalhydraulic Uncertainties Analysis in a Research Reactor
P.4.25.	E. Villarino F. Albornoz F. Boschetti I. Ferrari S. Matzkin A. Maître H. Meier	Argentina	INVAP Computer Codes Validation in the Frame of the IAEA CRP against Experimental Data on Fuel Burnup and Material Activation
P.4.26.	M. Gaheen M. Elsaied M. Zaky	Egypt	Analysis of Safety Issues Related to Restart of High Flux MTR Reactors after SCRAM

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.4.27.	A. Cervantes D. Estryk	Argentina	Signals Emulator Equipment Design for RA-10 of Reactor Protection System Verification Process
P.4.28.	A. Ancieta G. Zavala W. Farro G. Vivanco B. Vilcapaza A. Gamarra J. Quispe J. Huillca	Peru	Experimental Determination of Delayed Neutron Fraction Using Neutron Noise and Thermal Balance at RP-10
P.4.29.	B. Vilcapaza A. Ancieta G. Vivanco A. Gamarra J. Quispe J. Huillca P. Bazalar W. Farro G. Zavala V. Viera	Peru	Evaluation of the Neutronic Management of the RP-10 Cores
P.4.30.	G. Caceres Vivanco W. Farro A. Ancieta B. Vilcapaza A. Gamarra J. Quispe G. Zavala P. Bazalar J. Huillca V. Viera	Peru	Thermo-Hydraulic Evaluation of the RP-10 Reactor Using Fuel Assembly of Uranium Silicide U ₃ Si ₂ .
P.4.31.	W. Farro G. Vivanco A. Ancieta B. Vilcapaza A. Gamarra J. Quispe G. Zavala V. Viera J. Huillca P. Bazalar	Peru	Accident Evaluation in the Transitional State in Reactor RP-10

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.4.32.	M. Koenen	Netherlands	10-Yearly Safety Evaluation (10EVA) Operations Experience at NRG
P.4.33.	Y. Pramono D. Sukarno J. Istiyanto	Indonesia	Regulatory Assessment of SAMOP Test Facility as Utilization of Kartini Reactor
P.4.34.	H. Abou Yehia	France	New IRSN Publication on Research Reactors

POSTER SESSION 5

SECURITY OF RESEARCH REACTORS

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.5.01.	S. Shaban K. Aladham	Egypt	Challenges Facing Nuclear Security Implementation at Research Reactors
P.5.02.	A. Syuryavin S. Lee	Indonesia	Evaluation on Security Challenges and Risks of Indonesia RSG GA SIWABESSY Research Reactor
P.5.03.	Y. Kilic	Turkey	Nuclear Security of Research Reactors

POSTER SESSION 6

FUEL MANAGEMENT AND DECOMMISSIONING

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.6.01.	M. Shaat R. Abou-Alou	Egypt	A Preliminary Decommissioning Plan for a Research Reactor
P.6.02.	L. Bak	Poland	Decommissioning of Polish Research Reactors – The Past and The Future
P.6.03.	C. Diaz	Argentina	Reactor Argentino RA-8: Plan, Withdrawal of Service and Dismantling of the Argentine Reactor RA-8
P.6.04.	J. Perrotta E. Urano	Brazil	The RMB Project – Fuel Cycle Management
P.6.05.	A. Chesnokov V. Evstigneev A. Kurskiy S. Semenov R. Gazin O. Ivanov A. Lemus A. Shisha	Russian Federation	SNF Management of the MR and RFT Research Reactors at Stage of Preparation and their Decommissioning
P.6.06.	E. Linardi R. Andalaf	Argentina	Corrosion Surveillance Program of Research Reactor Spent Fuel Elements in Interim Wet Storage Facilities in Argentina
P.6.07.	A. Forte Giacobone M. Flores O. Opezzo M. Ratner	Argentina	Changes in Bacterial Populations at a Spent Nuclear Fuel Facility
P.6.08.	H. Park	Korea, Republic of	Decommissioning Procedure and Activities on the RSR for the KRR2
P.6.09.	A. Talbi V. Vo Van J. Valery J. Chabeuf R. Le Blevenec	France	Orano Comprehensive Solutions for Research Reactors Back-end Operations
P.6.10.	J. Dickerson M. Soule C. Landers B. Waud	USA	Proliferation Resistance Optimized Cores (PRO-Core)

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.6.11.	M. Brizuela S. Capararo	Argentina	Radiological Safety Aspects During the Decommissioning of a Uranyl Nitrate Solution Irradiation Facility at RA6 Reactor
P.6.12.	A. Hossen M. Abdul Motalab J. Haque Khan S. Mahmood S. Shauddin	Bangladesh	Benchmark Calculation of Thermal Neutron Flux of OPAL Research Reactor Using Monte Carlo Code MCNP5
P.6.13.	M. Gorzala	Poland	Preliminary Plan on Decommissioning of the Polish MARIA Research Reactor
P.6.14.	F. Kungurov S. Baytelesov	Uzbekistan	Decommissioning of IIN-3M Pulse Research Reactor of JSC "Foton" in Tashkent

POSTER SESSION 7

COMMON MANAGEMENT CONSIDERATIONS

Paper No.	Author(s)	Designating Member State/Organization	Title of Paper
P.7.01.	H. Elsayed	Egypt	Interaction Between Nuclear Safety Systems and Security System Using LEU
P.7.02.	F. Huet N. Winther	France	Integrated Management System Implementation: Key Factors of Success Based on Lesson Learned

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

IAEA (2006)	Code of Conduct on the Safety of Research Reactors
IAEA Safety Standards Series No. SSR-3 (2016)	Safety of Research Reactors
IAEA Safety Standards Series No. GSR Part 2 (2016)	Leadership and Management for Safety
IAEA Safety Standards Series No. NS-G-4.2 (2006)	Maintenance, Periodic Testing and Inspection of Research Reactors
IAEA Safety Standards Series No. NS-G-4.3 (2008)	Core Management and Fuel Handling for Research Reactors
IAEA Safety Standards Series No. NS-G-4.4 (2008)	Operational Limits and Conditions and Operating Procedures for Research Reactors
IAEA Safety Standards Series No. NS-G-4.5 (2008)	The Operating Organization and the Recruitment, Training and Qualification of Personnel for Research Reactors
IAEA Safety Standards Series No. NS-G-4.6 (2009)	Radiation Protection and Radioactive Waste Management in the Design and Operation of Research Reactors
IAEA Safety Standards Series No. SSG-10 (2010)	Ageing Management for Research Reactors
IAEA Safety Standards Series No. SSG-20 (2012)	Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report
IAEA Safety Standards Series No. SSG-24 (2012)	Safety in the Utilization and Modification of Research Reactors
IAEA Safety Standards Series No. SSG-37 (2015)	Instrumentation and Control Systems and Software Important to Safety for Research Reactors
Safety Reports Series No. 75 (2013)	Implementation of a Management System for Operating Organizations of Research Reactors
Safety Reports Series No. 80 (2014)	Safety Reassessment for Research Reactors in the Light of the Accident at the Fukushima Daiichi Nuclear Power Plant
Safety Reports Series No. 94 (2019)	Approaches to Safety Evaluation of New and Existing Research Reactor Facilities in Relation to External Events
IAEA Nuclear Energy Series NP-T-5.1 (2012)	Specific Considerations and Milestones for a Research Reactor Project

IAEA Nuclear Energy Series NP-T-5.3 (2014)	Applications of Research Reactors
IAEA Nuclear Energy Series NP-T-5.8 (2017)	Research Reactors for the Development of Materials and Fuels for Innovative Nuclear Energy Systems
IAEA Nuclear Energy Series NG-T-3.16 (2017)	Strategic Planning for Research Reactors
IAEA Nuclear Energy Series NG-T-3.18 (2018)	Feasibility Study Preparation for New Research Reactor Programmes
IAEA Nuclear Security Series No. 27-G (2018)	Physical Protection of Nuclear Material and Nuclear Facilities (Implementation of INFCIRC/225/Revision 5)
IAEA Nuclear Security Series No. 28-T (2017)	Self-assessment of Nuclear Security Culture in Facilities and Activities
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IAEA TECDOC Series No. 1801 (2016)	Management of the Interface between Nuclear Safety and Security for Research Reactors
IAEA TECDOC Series No. 1831 (2017)	Proficiency Testing by Interlaboratory Comparison Performed in 2010–2015 for Neutron Activation Analysis and Other Analytical Techniques
IAEA TECDOC Series No. 1839 (2018)	Development of an Integrated Approach to Routine Automation of Neutron Activation Analysis
IAEA TECDOC Series No. 1879 (2019)	Benchmarking against Experimental Data of Neutronics and Thermohydraulic Computational Methods and Tools for Operation and Safety Analysis of Research Reactors
IAEA (2016)	Nuclear Security Management for Research Reactors and Related Facilities
Technical Reports Series No. 482 (2016)	History, Development and Future of TRIGA Research Reactors

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