International Conference on Research Reactors: Achievements, Experience and the Way to a Sustainable Future 27 November - 1 December 2023, Dead Sea, Jordan

	Sunday, 26 November		Monday, 27 November		Tuesday, 28 November		Wednesday, 29 November		Thursday, 30 November		Friday, 01 December
		9:30- 10:30 10:30- 11:00	Registration Conference Opening B. Al- Khasawneh, Prime Minister, Jordan N. Mokhtar, DDG-NA, IAEA L. Evrard, DDG-NS, IAEA K. Toukan, Conference Chair, JAEC Scientific Secretaries	08:30- 10:00	Session 4: Safety of Research Reactors Chair: A. Shokr, IAEA Co-Chair: R. Abu-Saleem, Jordan IAEA programme on safety of research reactors: Achievements, experience and way forward, A. Shokr, IAEA Safety and current status of Ukrainian research nuclear reactors, O. Kukhotskyi, Ukraine The specificities of the ITER reactor (Regulatory oversight of research reactors, including licensing process and inspection programs), R. Amorosi, France Implementation of Recommendations and Lessons Learned from INSARR Mission on TR-2 Research Reactor, O.Y. Kutlu, Turkey	08:30- 10:00	Session 3: New Research Reactor programmes Chair: A.T. Mozagba, South Africa Co-Chair: J. Perrotta, Brazil RMB - The new nuclear research centre in Brazil, P.S.P. Oliveira, Brazil Status reports on new research reactor programme in progress, experience and lessons learned - South Africa MPR Project, AT. Mozagba, South Africa New Research Reactor at Czech Technical University in Prague - Subcritical Assembly VR-2, J. Rataj, Czech Republic Strategic planning for implementation of Research reactor, C. Niane, Senegal	08:30- 10:00	Session 4: Safety of Research Reactors Chair: M. Gahen, Egypt Co-Chair: J. Malicak, Czech Republic Regulatory oversight of research reactors, E. Helvenston, USA Regulatory supervision of research reactors in China, Z. Yang, China Regulatory Oversight of Research Reactors In Canada, A. McAllister, Canada Regulatory Oversight of the Nigeria Research Reactor - 1: Achievements and Future Prospects, M. Akpanowo, Nigeria	08:30- 10:00	Session 1: Utilization and Applications Chair: R. Mikolajczak, Poland Co-Chair: D. Ridikas, IAEA Radioisotope production in MARIA research reactor, R. Mikolajczak, Poland Towards Optimized Use of Research Reactors in Europe – TOURR project: Strategy for upgrading existing and building new Research Reactors, A. Pungerčić, Slovenia Maximizing the Potential of Research Reactors in Indonesia for Radioisotope Production and Advancement in Medical Technology, J. Anda, Indonesia The Forensic Science Applications of the JM-1 SLOWPOKE Research Reactor J. Antoine, Jamaica
		10:00-10:30 Poster Session and Coffee Break					1				
		11:00- 13:30	Session 1: Utilization and Applications Chair: G. Bignan, France Co-Chair: D. Wisnubroto, Indonesia IAEA key-note spearker, N. Pessoa Barradas, IAEA Current Status of the HANARO Utilization, M. Kim, Korea The Research Reactor TRIGA Mainz – Since More than 58 Years a Strong and Versatile Neutron Source for Science and Education, K. Eberhardt, Germany New Innovative Developments and Sustainable Utilizations of the Penn State Breazeale Reactor, K. Unlu, USA Neutron activation analysis applications using the facilities installed at the Peruvian Institute of Nuclear Energy, P. Bedregal, Peru R&D plan for the development of BNCT at the WWR-K reactor, A. Shaimerdenov, Kazakhstan	10:30- 12:30	Session 4: Safety of Research Reactors Chair: E. Grolleau, France Co-Chair: SJ. KIM, Korea Periodic Safety Review of research reactors in France, S. Kanamori, France Periodic safety and security review of OPAL research reactor, M. Hulskamp, Australia EMRC's Review and Assessment of Research Reactor Safety, N. Aldameree, Jordan Safety classification: a methodology based on the internalization of defence in depth concept and a case of study applied to a research reactor, M. Gimenez, Argentina Lessons learned from design and implementation of safety classification procedure for Maria Research Reactor, J. Kalowski, Poland Verification of Safety Improvement of a Research Reactor, D. Merrouche, Algeria	10:30- 12:30	Session 5: Security of Research Reactors Chair: P. Fyfe, UK Co-Chair: M. Waseem, IAEA IAEA key-note spearker, M. Waseem, IAEA Experience with upgrading physical protection systems for the HFR, P. Romano, Netherlands Secure Monitoring and Information Transmission Scheme in IoT Environment for Nuclear Facilities, M.El Tokhy, Egypt The Development Progress Of Design Basic Threat Documents For Nuclear Installation And Category One Facilities In Malaysia, M. Husain, Malaysia Challenges in the Implementation of Nuclear Security In Old Nuclear Research Reactors, B. Purnomo, Indonesia Insider Threat Mitigation at Jordan Research and Training Reactor, A. Nasser, Jordan	10:30- 11:30 11:30- 11:30- 12:30	Session 7: Common Management Considerations Chair: H. Yang, China Co-Chair: S. Van Dyck, Belgium IAEA key-note spearker, N. Pessoa Barradas, IAEA Interface between nuclear safety and security, perspective from the Belgian TSO, D. Marloye, Belgium Safety Culture Program in the Jordan Research and Training Reactor (JRTR), L. Dghaimat, Jordan Poster Session	10:30- 12:30	Session 7: Common Management Considerations Chair: M. Salhi, Algeria Co-Chair: E. Vargas, Chile Considerations for a sustainable future for research reactors, G. Storr, Austral Experience with managing the continuity of safe, secure and effective operational utilization of research reactors, H. Yang, China Assessment criteria for reviewing the knowledge management status in nuclea and radiological installations, A. Eisa, Egypt Development of National Strategy for Decommissioning of Research Reactor in the Czech Republic, L. Sklenka, Czech Republic Considerations regarding the mission and challenges of deployment a new research reactor center, P. Mattar, Brazil
		13:30- 14:30 14:30- 16:00	Lunch Break Session I: Utilization and Applications Chair: N. Bouzekri, Morocco Co-Chair: P. Cantero, Argentina JRTB utilization and impact, M. Hawari, Jordan Beam Line Facilities At The Safari-I Research Reactor And Their Progression Into The New Multi-Purpose Reactor, A. Venter, South Africa Recent Developments In ISFAHAN MNSR Applications, M. Dastjerdi, Iran Chilean Experience Post IRRUR Mission, E. Vargas, Chile	13:30- 15:00	Session 3: New Research Reactor programmes Chair: K. Tiyapun, Thailand Co-Chair: A. Alomari, Saudi Arabia IAEA key-note speaker, A. Stintkov, IAEA Status of KJRR project in Korea, M. KIM, Korea Jules Horowitz Reactor (JHR) project: a future Material Test Reactor in support to nuclear industry, regulators and R&D institutes: status as of mid-2023 following major reassessment of the project and setting-up of « pre-JHR » phase before start-up of the reactor, G. Bignan, France MBIR – the most high-flux reactor in the world and a unique platform for international scientific cooperation, A. Goncharuk, Russia	13:30- 15:00	I2:30-13:30 Lunch Break Session 4: Safety of Research Reactors Chair: J. Borromeo, USA Co-Chair: H. Odol, Ghana Ageing management and continued safe operation of SAFARI-I, S. Malaka, South Africa PNRA Experience of Periodic Safety Review to Ensure the Continued Safe Operation of Research Reactors and Implementation of Identified Safety Improvements, F. Batool, Pakistan HFR Ageing Management Program and Continued Safe Operation, L. Hasa, Netherlands From Vacuum Tubes to Solid-State: The upgraded control console for the Idaho State University AGN-201, M. Daniels, USA	13:30- 15:00	Session 1: Utilization and Applications Chair: M. Hawwari, Jordan Co-Chair: N. Barradas, IAEA Neutron imaging at low and medium flux neutron sources, J. Matoušková, Czech Republic Internal Structure Characterization for a set of Greek-Roman Coins that discovered in Mediterranean Sea at Egypt using Neutron Tomography, D. Khalil, Egypt Progress in Construction of Neutron Stress Diffractometer "Hetu" and Small Angle Neutron Scattering Spectrometer "Luoshu" of Shanghai Jiao Tong University, S. Zhong, China Managing an Analytical Chemistry and Radiation Measurements Laboratory at a Nuclear Reactor, where Operations and Research Collide, J. Bowen, USA	12:30- 13:30 13:30- 13:45	Panel Session: Summary Discussion, Conclusions and Recommendations Closing Session Young Professional Poster Awards M. Chudakov, DDG-NE, IAEA Closing Remarks K. Toukan, Conference Closing Scientific Secretaries, IAEA
15:00- 18:00	Registration	16:00- 16:30 16:30- 18:30	Poster Session and Coffee Break Session 2: Operation and Maintenance Chair: S. O'Kelly, USA Co-Chair: P. Chakrov, IAEA IAEA key-note speaker, R. Mazzi, IAEA Major refurbishment of Advanced Test Reactor, S. O'Kelly, USA Commissioning Experiments of the new core of the IPEN/MB-01 Research Reactor with Plate-Type Fuel Elements, U. Bitelli, Brazil Integrated Management system applied to a low power research reactor facility in operation: lesson learned and future perspective, A. Salvini, Italy Ageing Management Experienced in Refurbishment of TRR-1/M1 Reactor Pool, K. Tiyapun, Thailand	15:30- 17:30	Session 2: Operation and Maintenance Chair: A. Pichlmaier, Germany Co-Chair: F. Kungurov, Uzbekistan Condition Based Maintenance for Research Reactors, L. Stefanini, Netherlands Prognosis and Health Management (PHM) of Electrical rotating equipment in nuclear research reactors: ES-Salam Case Study, S. Touati, Algeria Maintenance, Periodic Testing, and In-Service Inspection at Pakistan Research Reactor-I (PARR-1), M. Ali, Pakistan Structure, system, and components integrity detection on the primary system of RSG-GAS based on primary coolant radionuclides measurements, S. Sriyono, Indonesia FRM II: Why is Germany's only reactor with P > 1 MW temporarily shut down, where is it going, A. Pichlmaier, Germany Current Status of Russian Research Reactors, N. Arkhangelskiy, Russia	15:30- 17:30	15:00-15:30 Poster Session and Coffee Break Session 6: Research Reactor Fuel Management Chair: N. Arkhangelsky, Russia Co-Chair: J. Dewes, IAEA IAEA key-note spearker, J. Dewes, IAEA Research reactor spent fuel management in Russia, L. Belinsky, Russia Management of In-core fuel and spent fuel in HANARO, C. Kim, Korea Design of new LEU core for the Syrian MNSR reactor using the MCNP code, K. Khattah, Syria Optimization of IEA-R1 reactor core parameters using particle swarm algorithm, T. Santos, Brazil Depletion Algorithm for On-the-Fly Nuclide Inventory Determination for Research Reactors in the RAPID Code System, A. Pungercic, Slovenia	15:30- 17:30	Session 2: Operation and Maintenance Chair: A. Salvini, Italy Co-Chair: R. Mazzi, IAEA Management of Maintenance and Modernization at the BR2 Material Test Reactor, S. Van Dyck, Belgium Forty years of operation and exploitation of the Dalat nuclear research reactor, V. Cao, Viet Nam Over Two Decades of Operation of Ghana Research Reactor-1: Maintenance Practices and Lessons Learned, P. Dordoh-Gasu, Ghana Operation and Maintenance of WWR-SM Research Reactor in Uzbekistan, F. Kungurov, Uzbekistan Operational Experiences and Ageing Management of BAEC TRIGA Research Reactor, N. Jahan, Bangladesh Experience with major repairs and refurbishment at TRIGA 14MW open pool reactor, D. Stanciu, Romania	13:45- 17:50	Technical Tour
18:00- 20:00	Reception	18:30- 19:30	Side Event TBC	17:30- 18:30	Side Events 1 and 2 The role of research reactors in advancing Sustainable Development Goals, N. Pessoa Barradas Nuclear security enhancement based on emerging technologies and threats, M. Waseem	17:30- 18:30	Side Events 3 and 4 Capacity building based on research reactor centres, P. Chakrov Safety considerations in use of advanced and innovative technology in research reactors, D. Sears	Notes: 1. Posters already displayed during coffee breaks in the exhibition area. 2. Technical tour will be organized to SESAME facility.			
				19:00	Conference Gala Dinner						

Side Events TBC	Side Event 1: The role of research reactors in advancing Sustainable Development Goals	Side Event 2: Nuclear security enhancement based on emerging technologies and threats	Side Event 3: Capacity building based on research reactor centres	Side Event 4: Safety considerations in use of advanced and innovative technology in research reactors Wednesday, 28 November, 17:30- 18:30 Room:TBC		
Monday, 27 November, 18:30- 19:30 Room:TBC	Tuesday, 27 November, 17:30- 18:30 Room:TBC	Tuesday, 27 November, 17:30- 18:30 Room:TBC	Wednesday, 28 November, 17:30- 18:30 Room:TBC			
18:30- 18:35 TBD IAEA IAEA Remarks	17:30- 17:35 N. Pessoa Barradas IAEA IAEA Remarks	17:30- 17:35 M. Waseem IAEA IAEA Remarks	17:30- 17:35 P. Chakrov IAEA IAEA Remarks	17:30- 17:35 D. Sears IAEA IAEA Remarks		
	Kahook/Sabbagh Jordan		G. Bignan France	A. Bradford IAEA		
	A.T. Mozagba South Africa		C. Elyounoussi Morocco	L. Handsztok Argentina		
	17:35- 18:10 E. Vargas Chile		17:35-18:10 P. Cantero Argentina	17:35-18:10 SUH Yongsuk Korea		
	RIALC		L. Sklenka Czech Republic	J. Borromeo USA		
19:10- 19:25 TBD IAEA Q&A Session	18:10- 18:25 N. Pessoa Barradas IAEA Q&A Session	18:10- 18:25 M. Waseem IAEA Q&A Session	18:10-18:25 P. Chakrov IAEA Q&A Session	18:10- 18:25 D. Sears IAEA Q&A Session		
19:25- 19:30 TBD IAEA Summery and Closing	18:25-18:30 N. Pessoa Barradas IAEA Summery and Closing	18:25-18:30 M. Waseem IAEA Summery and Closing	18:25-18:30 P. Chakrov IAEA Summery and Closing	18:25-18:30 D. Sears IAEA Summery and Closing		

14	on and Improvement the Optical and RTR)]{Determination of the thermal on at the JRTR ation loop systems
Section Proceedings Procedure Proc	on and Improvement the Optical and RTR)]{Determination of the thermal on at the JRTR ation loop systems
13. M. Casary Eggl. 14. M. Sarton Heaven Memory Common Services and Common Services (CERT-C) for addressing the national and common services (CERT-C) for addressing se	on and Improvement the Optical and RTR)]{Determination of the thermal on at the JRTR ation loop systems
Section A. Nesselbary Scriptors Section Sectio	RTR))(Determination of the thermal on at the JRTR ation loop systems
Section	RTR))(Determination of the thermal on at the JRTR attion loop systems
Supy of mices Neutronic Communications are readstore refers from MRIENEY Research in Equipment Securities State (1997). 8 K. A-Protesterman, John State (1997). 9 K. A-Protesterman, State (1997). 9 K. A-Protesterman, State (1997). 9 K. A. Bededisto, Greece A. State (1997). 9 K. M. Moon. 10 K. A. Bededisto, Greece A. State (1997). 11 K. M. Moon. 12 K. M. Moon. 12 K. M. Moon. 13 K. M. Moon. 14 K. M. Moon. 15 K. M. Moon. 15 K. M. Moon. 16 K. M. Moon. 17 K. M. Moon. 18 K. M. Moon. 18 K. M. Moon. 19 K. M.	RTR))(Determination of the thermal on at the JRTR attion loop systems
Determination of the florance applies cross section and the resource religion of 1809(Ny) 1879 M at the Jordan Research and Training Resource ()	on at the JRTR ation loop systems
91 A. Bernordou. Grosco. A Bublent Tearing Nuclear Reactor of Education and Training. 100 K. R. Maklinaw. Location. Conception State Members Instituted National Analysis and Conception Simulations for Rain Earth Flammaris Samples. Actions 127. V. Promocopy and Conception State State State Conception State State Conception State State Conception State S	ation loop systems
Total	ation loop systems
132 M. Ethaney	
142 Z. E. Boulda Algoria Sinvercomental trace elements monitoria usaria motion analysis in sell and a particulate matter sampless nearby Algorian Algorian 145 M. Alfordi Lóbri T. H. Gardinal Algorian Control of a solid control of analysis motion and particulate matter sampless nearby Algorian Algorian 146 M. Alfordi Lóbri T. L. H. Samples and the control of analysis of	
14.1 L. Hemidisov-Applem Applicat	C) in Jordan: a Glimpse of
146 H. H. Nimer Joodan JRTR RIFF Beer Placetors Applied in Jodine 137 Pediatoring of December 1 (1997) 1. Pediatoring of the Control of State deliverable and Management State of the MANARO Nature Transmission Oping System in 2023 1. Pediatoring of the State State of State Sta	C) in Jordan: a Glimpse of
153 T. Ast Algeria Determination of table elements and heavy metals concentration by INAA around the industrial zone of Algeria.	C) in Jordan: a Glimpse of
157 D. Kornik Stovenia 168 C. Et. Younnoise Marcock New over configuration for personal processing frequency 169 C. Et. Younnoise Marcock New over configuration for personal processing frequency 179 A. Assobbeth 179 A. Assobbeth 179 A. Assobbeth 170 A. Assobbeth 170 A. Assobbeth 171 A. Assobbeth 171 A. Assobbeth 171 A. Assobbeth 171 A. Assobbeth 172 A. Assobbeth 173 A. Assobbeth 174 A. Assobbeth 175 A. Assobbeth 176 A. Assobbeth 177 A. Assobbeth 177 A. Assobbeth 177 A. Assobbeth 178 A. Assobbeth 178 A. Assobbeth 179 A. Assobbeth 179 A. Assobbeth 170 A. Assobbeth 171 A. Assobbeth 171 A. Assobbeth 171 A. Assobbeth 172 A. Assobbeth 173 Post-dation Capacity and Method Applied at JRTR. 174 A. Gendrift 175 A. Assobbeth 176 A. Assobbeth 177 A. Assobbeth 177 A. Assobbeth 178 A. Assobbeth 179 A. Assobbeth 179 A. Assobbeth 170 A. Assobbeth 171 A. Salem 172 A. Assobbeth 173 A. Assobbeth 174 A. Salem 175 A. Assobbeth 176 A. Assobbeth 177 A. Assobbeth 177 A. Assobbeth 178 A. Salem 179 A. Assobbeth 179 A. Assobbeth 170 A. Assobbeth 170 A. Assobbeth 170 A. Assobbeth 170 A. Assobbeth 171 A. Assobbeth 171 A. Salem 170 A. Assobbeth 171 A. Marketh 171 A. Marketh 172 A. Marketh 173 A. Marketh 174 A. Marketh 175 A. Marketh 175 A. Marketh 176 A. Assobbeth 177 A. Assobbeth 177 A. Assobbeth 178 A. Salem 179 A. Assobbeth 179 A. Assobbeth 170 A. A	C) in Jordan: a Glimpse of
166 C. E. L. Youncoust Morocco New Core configuration to nonzease lodine 131 production capability in the Moroccon TRIGA MARK IR Research Reactor 173 S. Berboucci Appains Juristin 174 A. Alasbescy Juristin 175 A. Alasbescy Juristin 176 A. Alasbescy Juristin 177 A. Alasbescy Juristin 177 A. Alasbescy Juristin 178 A. Alasbescy Juristin 178 A. Alasbescy Juristin 179 A. Alasbescy Juristin 179 A. Alasbescy Juristin 179 A. Alasbescy Juristin 170 A. Alasbescy Juristin 171 A. Selection 171 A. Selection 171 A. Alasbescy Juristin 171 A. Selection 171 A. Alasbescy Juristin 171 A. Alasbescy Juristin 171 A. Selection 171 A. Alasbescy Juristin 172 A. Alasbescy Juristin 173 A. Alasbescy Juristin 173 A. Alasbescy Juristin 174 A. Alasbescy Juristin 175 A. Alasbescy Juristin 175 A. Alasbescy Juristin 175 A. Alasbescy Juristin 175 A. Alasbescy Juristin 176 A. Alasbescy Juristin 177 A. Alasbescy Juristin 177 A. Alasbescy Juristin 177 A. Alasbescy Juristin 178 A. Alasbescy Juristin 179 A. Alasbescy Juristin 179 A. Alasbescy Juristin 179 A. Alasbescy Juristin 170	C) in Jordan: a Glimpse of
175 A. Alasbady Jordan 176 K. Cababye Jordan 177 K. Cababye Jordan 178 A. Alasbady Jordan 178 A. Alasbady Jordan 178 A. Alasbady 179 A. Alasbady 170 A. Alasba	C) in Jordan: a Glimpse of
183 S. Alawad Jordan No-16th Microspheres processing. Testing and dispatching in JRTR Alth for Education and Training Past. Present and Education Jordan	C) in Jordan: a Glimpse of
202 S. Westhagarun Thelaind TRR-f./Mil for Education and Training- Past. Present, and Future 202 K. Ambroże Silvovini Nuclear heating and applications of academic neutrons. 214 E. Aberdi Baly Training and applications of academic neutrons. 215 W. Farro Peru C. Calculation of Does and Neutron Fow in the Neutropaporty Facility of the RP-10 Research Pressure Cardiology of the Common Common Peru C. Cardiology of the RP-10 Research Pressure Cardiology of the Research Research Pressure Cardiology of the Research Rese	C) in Jordan: a Glimpse of
204	C) in Jordan: a Glimpse of
238 A. Al-braheem 238 A. Al-br	CC) in Jordan: a Glimpse of
11 Z. Bhagaskara Indonesia Development of Digital instrumentation for Research Reactor 12 A. Salasskara Indonesia Development of Digital instrumentation for Research Reactor 13 M. Salast Egyt D. Bespring Ageing Management System for Safety Related SSC's in Nuclear Fuel Cycle Facility (Research Reactor) 14 M. Salast Egyt P. Feedback of Operating Experience and Learned Lessons after 25 Years of Successful Operation of Second Egyptian Research Reactor 14 M. Marwaring USA 14 N. Marwaring USA 15 M. Marwaring USA 16 M. Reichenberger USA 16 M. Reichenberger USA 16 M. Reichenberger USA 16 M. Mobum Activation Measurements for Lobe Power Calculation Analysis of the Advanced Test Reactor (ATR) 17 A. Abubukar Nigeria 18 M. Salasti M. Nigeria Research Agency Availability Improvement 18 M. Mobum Activation Measurements for Lobe Power Calculation Approach In the Nigerian Research Approach to the Nigerian Research (ATR) 19 M. Eldowich Jordan 19 M. Eldowich Jordan 19 M. Eldowich Jordan 19 M. Abunusmah Jordan 10 M. Abunusmah Jordan 11 M. Almardi Jordan 11 M. Almardi Jordan 11 M. Almardi Jordan 12 M. Almardi Jordan 13 M. Almardi Jordan 13 M. Almardi Jordan 14 M. Almardi Jordan 15 M. Almardi Jordan 16 M. Almardi Jordan 16 M. Almardi Jordan 17 M. M. Miller M. M. Modernizing the Legacy Fission Wire Measurement System for the Advanced Test Reactor – Critical Facility 18 M. Almardi Jordan 19 M. M. Miller M. M. Miller M. M. Modernizing the Legacy Fission Wire Measurement System for the Advanced Test Reactor – Critical Facility 19 M. M. Miller M. M. M	CC) in Jordan: a Glimpse of
17	
46 N. Manwaring 48 U. Adam 48 U. Adam 48 U. Adam 49 Legreine Cevit Nuclear Test Design to Coptimize Usefulness and Sustainability of the Advanced Test Reactor (ATR) 48 U. Adam 49 Legreine USA 40 Nobum Activation Measurements for Lobe Power Calculation Indication System Alignment at the Advanced Test Reactor. 40 A. Aubakar 40 A. Aubakar 41 Nigeria 41 S. Jonah 41 Nigeria 42 S. Jonah 43 Nigeria 44 S. Jonah 44 Nigeria 45 C. Lee Korea 46 C. Lee Korea 47 M. Elduweb 40 Jordan 40 A. MITIGATION A PROACH FEATTON OF NIGERIA RESEARCH REACTOR 1 INITRATI NINSTRUMENTATION 40 M. Elduweb 40 Jordan 40 A. MITIGATION A PROACH OF WET STACKING IN RESEARCH REACTOR DIESEL GENERATOR AT JRTR 41 A. Asuncion-Astronomo Philippines 50 Continuous and pulse-mode operation of a TRIGA-fueled subcritical assembly 51 M. Abuncion-Astronomo Philippines 50 Continuous and pulse-mode operation of a TRIGA-fueled subcritical assembly 51 M. Amarafi 51 M. Amarafi 51 Jordan 51 M. Amarafi 51 Jordan 51 Jord	
48 U. Adam Nigeria Total Productive Maintenance Approach for the Nigerian Research Reactor Availability Improvement M. Reichnerberger U.S. Albubakar Nigeria P. A. Abubakar Nigeria P. C. Lee Korea Replacement of Heat Plates in Primary Cooling System of HANARO M. Abubakar Nigeria P. C. Lee Korea M. Elutweb Jordan M. Abubamah Jordan Resctor Power Collination System of HANARO M. Abubamah Jordan Resctor Power Control Resctor Fower Control Resctor Fower Control M. Abubamah Jordan Resctor Fower Control M. Abubamah Jordan Resctor Fower Control M. Abubamah Jordan Resctor Fower Control M. Modernizing the Legacy Fission Wire Measurement System for the Advanced Test Reactor - Critical Facility Ordan M. Abubamah Jordan Resctor Fower Control M. Ammarát Jordan M. Almaraft Jordan M. Hilly M. Hilly M. Almaraft Jordan M. Hilly M. Almaraft Jordan M. Hilly	
70 A. Abubakar Nigeria 71 S. Jonah Nigeria 72 S. Jonah Nigeria 73 C. Lee Korea 74 S. Jonah Nigeria 75 C. Lee Korea 75 M. Editwieb 76 M. Editwieb 76 M. Editwieb 77 M. Abuncion-Astronomo 78 M. Editwieb 78 M. Editwieb 79 M. Editwieb 79 M. Editwieb 70 M. Abutoamah 71 M. Almarati 71 M.	
98 M. Elduwieb Jordan AutriGatTola ApproAcAH of West STACKINS IN ESEARCH REACTOR DIESEL GENERATOR AT JRTR 103 M. Abutoamah Jordan Beactor Power Control 125 K. McCary USA Modermizing the Legacy Fission Wire Measurement System for the Advanced Test Reactor – Critical Facility Philippines (Continuous and pulse-mode operation of a TRIGA-fueled subcritical assembly) 128 A. Hawari Jordan Jordan Jordan Start-up. 139 M. Almarafi Jordan Jordan Good PRACTICE IN MAINTENANCE AT THE JORDAN RESEARCH RAD TRAINING REACTOR 140 L. Stefanin Industry Uganda MULTIOBLECTIVE OPTIMIZATION FOR BUDGETARY OPERATION AND MAINTENANCE OF RESEARCH REACTORS 146 L. Stefanin Industry In	
103 M. Abutaamah Jordan Reactor Power Control 125 K. McCary USA Modernizing the Legacy Fission Wire Measurement System for the Advanced Test Reactor - Critical Facility 126 M. Hawari Jordan System for the Advanced Test Reactor - Critical Facility 127 M. Hawari Jordan System for the Advanced Test Reactor - Critical Facility 128 A. Hawari Jordan GOOD PRACTICE IN MAINTENANCE AT THE JORDAN RESEARCH AND TRAINING REACTOR 137 K. Mubiru Uganda MULTIGBJECTIVE OPTIMIZATION FOR BUDGETARY OPERATION AND MAINTENANCE OF RESEARCH REACTORS 138 N. Hidwari Indonesia Comprehensive Insertion implementation of Kartini Reactor SSCs for Continues Safe Operation 149 S. Somorbit Thailand Non-Destructive Inseption (INDIT) Project: Testination of Kartini Reactor SSCs for Continues Safe Operation 149 S. Somorbit Thailand Non-Destructive Inseption (INDIT) Project: Testination of Kartini Reactor SSCs for Continues Safe Operation 150 J. Park Korea Detector Position Sensitivity of Control Rod Worth by the Rod Drop Experiment Using Time-Dependent Monte Carlo Simulations 151 J. Lagos Colombia COMPUTATIONAL MODEL AND CHARACTERIZATION OF THE COLOMBIAN NUCLEAR RESEARCH REACTOR IAN-R1 USING MCNP6 152 J. Wash Ethiopia Mongolia The Current Status of Research Reactor Project in Mongolia 153 M. K. Hawari M. K. Keno Ethiopia Nationwide Assessment of Human Resources of Nuclear Energy and Nuclear programme of Ethiopian First Research Reactor Public Opinion Survey on the Peaceful Applications of Nuclear Energy and Nuclear programme of Ethiopian First Research Reactor Public Opinion Survey on the Peaceful Applications of Nuclear Energy and Nuclear Program and Incar The Carlo Rice Program Survey on the Peaceful Applications of Nuclear Energy and Nuclear Program First Research Reactor (RDE) Program Public Opinion Survey on the Peaceful Applications of Nuclear Energy Promotion in Jordan Public Public Public Public Research Reactor (PERS) Submits of Nuclear Energy Promotion in Jordan Public Research Reactor Designs A. Methan USA A. Methan USA Proliferation Resis	
125 K. McCary USA Modernizing the Legacy Fission Wire Measurement System for the Advanced Test Reactor - Critical Facility 128	
131 M. Almarafi Jordan GOOD PRACTICE IN MAINTENANCE AT THE JORDAN RESEARCH AND TRAINING REACTOR 137 K. Mubiru Uganda GOOD PRACTICE IN MAINTENANCE AT THE JORDAN RESEARCH AND TRAINING REACTOR 138 K. Mubiru Uganda MULTIOBJECTIVE OPTIMIZATION FOR BUDGETARY OPERATION AND MAINTENANCE OF RESEARCH REACTORS 176 U. Hidayat Indonesia Indonesia Time Limited Ageing Analyses for Research Reactors 176 U. Hidayat Indonesia Comprehensive In-service Inspection Implementation of Kartini Reactor SSCs for Continues Safe Operation 178 F. Genezini Brazil THERMAL NEUTRON FLUX PROFILE CHARACTERIZATION ON THE IEA-RT NUCLEAR SAFETY MONITORING CHANNEL 178 S. Somothit Thailand Non-Destructive Inspection (INDT) Project: Taign and Analysis of Emergency Core Cooling System Water Tank. 178 J. Lagos Colombia CoMPUTATIONAL MODEL AND CHARACTERIZATION OF THE COLOMBIAN NUCLEAR RESEARCH REACTOR IAN-R1 USING MCNP6 179 J. Park Korea Detector Position Sensitivity of Control Rod Worth by the Rod Drop Experiment Using Time-Dependent Monte Carlo Simulations 170 M. Byambajav Mongolia The Current Status of Research Reactor Development in Sub-Saharan Africa: The Case of Kenya 170 M. Byambajav Mongolia The Current Status of Research Project in Mongolia 172 T. Wako Ethiopia The Current Status of Research Project in Mongolia 173 A. Krivapun Thailand Experimental Power Indiana Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program Power Indonesia Setutors in Applicatio	a transiant paried between LOOP and DC
137 K. Mubiru Uganda Metherlands Netherlands Time Limited Ageing Analyses for Research Reactors 176 U. Hidayat Indonesia Indonesia 176 U. Hidayat Indonesia 176 E. Genezini 187 E. Genezini 187 E. Genezini 187 E. Genezini 187 E. Genezini 188 S. Somchit 187 E. Genezini 188 E. Somchit 188 E. Somchi	autocit period between 2001 und 20
1766 U. Hidayat	
198 S. Somchit Thailand Non-Destructive Inspection (NDT) Project: Testing and Analysis of Emergency Core Cooling System Water Tank.	
218 J. Lagos Colombia COMPUTATIONAL MODEL AND CHARACTERIZATION OF THE COLOMBIAN NUCLEAR RESEARCH REACTOR IAN-R1 USING MCNP6 34 C. Odery Kenya Opportunities, Status and Challenges of Research Reactor Development in Sub-Saharan Africa: The Case of Kenya 110 M. Byambajav Mongolia The Current Status of Research Reactor Development in Sub-Saharan Africa: The Case of Kenya 124 T. Wako Ethiopia Public Opinion Survey on the Peaceful Applications of Nuclear Energy and Nuclear programme of Ethiopia 134 A. Keno Ethiopia Nationwide Assessment of Human Resources of Nuclear Science and Technology for Ethiopian First Research Reactor 182 G. Sunaryo Indonesis Powering Indonesis Teutre: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program 193 K. Tiyapun Thailand Experimental Indonesis Powering Indonesis Teutre: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program 194 A. Asuncion-Astronomo Philippines Establishment of the Philippine Research Approach, INIR-RR and Workforce Developing Plan using IAEA's Human Resource Modelling Tool 205 A. Muhulo Tanzania INTERNET RESEARCH REACTOR (IRL) FOR CAPACITY BUILDING: TANZANIA CASE 222 B. Ozar USA Demonstration of the Proliferation Resistance Optimization of Research Reactor Designs 224 A. Goriachikh Russian Concept of a molten sail research reactor (IZhSR) 225 B. Lukhnov Russian MBIR - Research Facility for validation of Innovative Reactor Designs 236 A. Meehan USA Proliferation Resistance of Research Reactor Systems - An Overview And Update 237 D. Honorio Brazil Balancing Development and Preservation: Environmental and Nuclear Energy Promotion in Jordan 238 R. Tolawak Ethiopia Development of National Nuclear Intermed of Social Media on Nuclear Energy Promotion in Jordan 240 B. Tolawak Ethiopia Development of National Nuclear Intermed of Social Media on Nuclear Energy Promotion in Jordan 252 K. Nikolaeva Boliva CENTER FOR NUCLEAR TECHNOLOGY RESEARCH AND DEVELOPMENT IN BOLIVIA: PROJECT STATUS 253 A. S. Alomari Saudi Arabia Development	
34 C. Oderny Kenya Opportunities, Status and Challenges of Research Reactor Development in Sub-Saharan Africa: The Case of Kenya 110 M. Byambajav Mongolia The Current Status of Research Reactor Project in Mongolia 124 T. Wako Ethiopia The Current Status of Research Reactor Project in Mongolia 134 A. Keno Ethiopia Nationwide Assessment of Human Resources of Nuclear Energy and Nuclear programme of Ethiopia Nationwide Assessment of Human Resources of Nuclear Science and Technology for Ethiopian First Research Reactor 143 A. K. Tiyapun Indonesia's Euture: The Development of a Sale and Versatiol Experimental Power Reactor (RDE) Program 193 K. Tiyapun Thailand Experimental Power Reactor (RDE) Program 194 A. Asuncion-Astronomo Philippines Establishment of the Philippine Research Reactor (PRE) Program 195 A. Asuncion-Astronomo Philippines Establishment of the Philippine Research Reactor (PRE) 13 Subcritical Assembly for Training, Education, and Research (SATER) 222 B. Ozar USA Demonstration of the Proliferation Resistance Optimization of Research Reactor Designs 224 A. Goriachikh Russian R. Khrais Jordan Establishment of the Proliferation Resistance Optimization of Research Reactor Designs 231 R. Khrais Jordan From Misconceptions to Engagement The Impact of Social Media on Nuclear Energy Promotion in Jordan From Misconceptions to Engagement The Impact of Social Media on Nuclear Energy Promotion in Jordan Proliferation Resistance of Research Reactor Systems – An Overview And Update 240 B. Tolawak Ethiopia Development of National Nuclear International Nuclear Internat	
124 T. Wako Ethiopia Public Opinion Survey on the Peaceful Applications of Nuclear Energy and Nuclear programme of Ethiopia 134 A. Keno Ethiopia Nationwide Assessment of Human Resources of Nuclear Science and Technology for Ethiopian First Research Reactor 182 G. Sunaryo Indonesia Powering Indonesia's Future: The Development of a Safe and Versatile Experimental Power Reactor (RDE) Program 183 K. Tiyapun Thailand Experimental Assembly for Training, Education, and Research Reactor (PDE) Program 184 A. Keno Philippine Statishishment of the Philippine Research Reactor-1 (PRR-1) Subcritical Assembly for Training, Education, and Research (SATER) 185 A. Muhulo Tanzania INTERNET RESEARCH REACTOR (IRL) FOR CAPACITY BUILDING: TANZANIA CASE 185 B. Ozar USA Demonstration of the Proliferation Resistance Optimization of Research Reactor Designs 186 A. Goriachikh Russian Concept of a molten salt research reactor (IZhSR) 187 D. Honorio Russian ISA Derivation Form Misconceptions to Engagement In Impact of Social Media on Nuclear Energy Promotion in Jordan 187 D. Honorio Brazil Balancing Development and Preservation: Environmental and Nuclear Internation Assembly the Brazilian Multipurpose Reactor (RMB) 188 D. Tolawak Ethiopia Development of National Nuclear Intervature for Research Reactor Program as Newcomer: in case of Ethiopia Centre Town Nuclear Energy Program as Newcomer: in case of Ethiopia Development of National Nuclear Intervature for Research Reactor Program as Newcomer: in case of Ethiopia Centre For Nuclear Economic Program as Newcomer: in case of Ethiopia Using International Using International Program Sudii Arabia Development and Nuclear International Program Sudii Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 189 M. Ibrahim Egypt Calculations of Control Rodd Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
182	
201 A. Asuncion-Astronomo Philippines Establishment of the Philippine Research Reactor 1 (PRR-1) subcritical Assembly for Training, Education, and Research (SATER) 3 222 B. Ozar USA Demonstration of the Proliferation Resistance Optimization of Research Reactor Designs 224 A. Goriachikh Russian Concept of a molten salt research reactor (IZhSR) 225 B. Lukhnov Russian MBIR – Research Facility for validation of Innovative Reactor Designs 231 R. Khrais Jordan From Misconceptions to Engagement The Impact of Social Media on Nuclear Energy Promotion in Jordan 236 A. Meehan USA Proliferation Resistance of Research Reactor Systems – An Overview And Update 237 D. Honorio Brazil Balancing Development and Preservantic Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB) 240 B. Tolawak Ethiopia Development and Preservantic Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB) 252 K. Nikolaeva Bolivia CENTER FOR NUCLEAR TECHNOLOGY RESEARCH AND DEVELOPMENT IN BOLIVIA: PROJECT STATUS 253 A. S. Alomari Saudi Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) 4 A. Ali Egypt Themal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
22 B. Ozar USA Demonstration of the Proliferation Resistance Optimization of Research Reactor Designs 224 A. Goriachikh Russian Concept of a molten salt research reactor (IZhSR) 225 B. Lukhnov Russian MBIR - Research Facility for validation of Innovative Reactor Designs 231 R. Khrais Jordan From Misconceptions to Engagement The Impact of Social Media on Nuclear Energy Promotion in Jordan 236 A. Meehan USA Poliferation Resistance of Research Reactor Systems - An Overview And Update 237 D. Honorio Brazil Balancing Development and Preservation: Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB) 240 B. Tolawak Ethiopia Development and Preservation: Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB) 240 B. Tolawak Ethiopia Development of National Nuclear Infrastructure for Research Reactor Program as Newcomer: in case of Ethiopia 252 K. Nikolaeva Saudi Arabia The Saudi Low Power Research Reactor (LPRR): Current Status 253 A. S. Alomari Saudi Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) 4 A. Ali Egypt Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
225 B. Lukhnov Russian MBIR - Research Facility for validation of Innovative Reactor Designs 231 R. Khrais Jordan From Misconceptions to Engagement The Impact of Social Media on Nuclear Energy Promotion in Jordan 236 A. Meehan USA Proliferation Resistance of Research Reactor Systems - An Overview And Update 237 D. Honorio Brazil Balancing Development and Preservation: Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB) 240 B. Tolawak Ethiopia Development of National Nuclear Intervative for Research Reactor Program as Newcomer: in case of Ethiopia 252 K. Nikolaeva Bolivia Saudi Arabia Development of National Nuclear Intervative for Research Reactor Program as Newcomer: in case of Ethiopia 253 A. S. Alomari Saudi Arabia The Saudi Low Power Research Reactor (LPRR): Current Status 254 S. M. Alshehri Saudi Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) Utilization and Human Capital Building for the Saudi Low Power Research Reactor (APRR) Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor Saudi Arabia Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
236 A. Meehan USA Proliferation Resistance of Research Reactor Systems – An Overview And Update 237 D. Honorio Brazil Balancing Development and Preservation: Environmental and Nuclear Licensing Aspects of the Brazilian Multipurpose Reactor (RMB) 240 B. Tolawak Ethiopia Development of National Nuclear Infrastructure for Research Reactor Program as Newcomer: in case of Ethiopia 252 K. Nikolaeva Boliva CENTER FOR NUCLEAR TECHNOLOGY RESEARCH AND DEVELOPMENT IN BOLIVIA: PROJECT STATUS 253 A. S. Alomari Saudi Arabia The Saudi Low Power Research Reactor (LPRR): Current Status 254 S. M. Alshehri Saudi Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) 4 A. Ali Egypt Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
240 B. Tolawak Ethiopia Development of National Nuclear Infrastructure for Research Reactor Program as Newcomer: in case of Ethiopia 252 K. Nikolaeva Boliwa CENTER FOR NUCLEAR TECHNOLOGY RESEARCH AND DEVELOPMENT IN BOLIVIA: PROJECT STATUS 253 A. S. Alomari Saudi Arabia The Saudi Low Power Research Reactor (LPRR): Current Status 254 S. M. Alshehri Saudi Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) 4 A. Ali Egypt Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
253 A. S. Alomari Saudi Arabia The Saudi Low Power Research Reactor (LPRR): Current Status 254 S. M. Alshehri Saudi Arabia Utilization and Human Capital Building for the Saudi Low Power Research Reactor (LPRR) 4 A. Ali Egypt Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
4 A. Ali Egypt Thermal Hydraulic Analysis of Inward and Outward Fuel Plate Buckling in a Typical MTR Reactor 9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
9 M. Ibrahim Egypt Calculations of Control Rods Worth and Kinetic Physical Parameters for ASTRA Critical Facility	
38 G. Al-Naddaf Jordan A Prospective using Non-Destructive Examination Approach for Ensuring the Safety of Research Reactors Instrumentation	
40 H. Elkhatib Egypt Safety Enhancement of the Egypt Second Research Reactor to Reduce the Effect of Loss Off-Site Power Supply 42 A. Awalludin Indonesia Regulatory Oversight of Nuclear Research Reactors in Indonesia: Policy Adjustments for Operational Challenges	
45 S. Baytelesov Uzbekistan INVESTIGATION OF THE AEROSOL AND GASEOUS COMPOSITION OF IODINE ISOTOPE COMPOUNDS IN EMISSIONS FROM THE WWR-S 51 M. Qayyum Pakistan Experience in application of the IAEA Code of Conduct on the Safety of Research Reactors	M REACTOR FACILITY
54 F. Kutbay Turkey The Risk Assessment of Aircraft Crash onto Research Reactors in Istanbul 58 S. Bhatti Pakistan PNRA Experience of Regulating Research Reactor and Molybdenum Production Facility (MPF) during Construction and Operation Phases	
59 M. Meo Pakistan Analysis of Single Failure Criterion during Natural Circulation Mode at PARR-1 64 M. Esawy Egypt Ageing Management of ETRR-1 during Extended Shutdown to Support its Restart or Decommissioning Option	
73 M. Abdelaal Egypt Analytical Model for the First Periodic Safety Review of Nuclear Research Reactors in Light of National Regulations and International Recommend. 76 A. Khakim Indonesia Safety analysis of Inadvertent control rods withdrawal of RSG GAS for various initial powers	ations
77 A. Wibowo Indonesia Application of Balis Smile as a Tool for Indonesian Nuclear Installation Facility Inspection and Safety Monitoring 79 M. Maskin Malaysia Fire Probabilistic Safety Assessment: An Evaluation at Reactor TRIGA PUSPATI Control Room	
85 M. Abdul Motalab Bangladesh Neutronics and Thermal-Hydraulics Coupling for Small Research Reactor Core Simulation: Methodological Development and Validation	
4 90 P. Bompere Congo CNPRI Regulatory Supervision of Research Reactor during extended shutdown state: Current inspections and futur plan 92 N. Abubakar Nigeria RECENT CHALLENGES IN NIRR-1 AND IAEA SUPPORT TOWARDS OPERATIONAL SAFETY ENHANCEMENT AND COMPLIANCE WITH NE	W NATIONAL REGUL ATIONS
94 J. Simon Nigeria Modeling Atmospheric Dispersion of Radionuclides Released from NIRR-1 LEU Core: Implications for Decommissioning Planning 97 A. Doval Argentina A reviewed approach to Operational Limits and Conditions and Operating Procedures	W NATIONAL REGOLATIONS
101 M. Omari Jordan The safety analysis of new Targets at the Jordan Research and Training Reactor	
109 D. Narasimhamurthy Netherlands Challenges identified in developing the methodology for safety classification of SSC for the PALLAS-reactor	s on research receive
113 M. Albrek Jordan Evaluation of occupational exposure during normal operation of the Radioactive-waste Treatment Facility at the Jordan Research and Training Rea 114 S. Hamdi Tunisia Challenges of Research Reactors Safety and Optimal utilization in Arab Countries	
140 M. Abu-Shams Jordan Effects of Grain Boundary Engineering on the Irradiation-Induced Damage in Beryllium Using Molecular Dynamics (MD) Simulation 143 M. Alqudah Jordan Assessing the Consequences of a Hypothetical Accident at the JRTR 145 Assessing the Consequences of a Hypothetical Accident at the JRTR	
151 A. Hadjam Algeria Numerical Simulation of Fluid Structure Interaction following a LBLOCA accident in the fuel bundle test section of the CALLISTO test loop facility of D. Ahmed Algeria Numerical simulation of SB-LOCA transient accident during leakage in water supply cooling system of research Reactor	actor
158 D. Saad Algeria The PCT uncertainty and sensitivity analysis of Es-Salam reactor fuel rods during steady-state operations 162 A. Alnajiar Jordan Radiological Protection Program at Jordan Research and Training Reactor (JRTR): Experience, challenges and Best Practices for Safe and Susta	actor
163 S. Alameer Jordan Tritium around Jordan Research and Training Reactor 164 N. Mellel Algeria Algeria Algeria Properties of the Thermo-Mechanical Behavior of the Low-Enriched Uranium Plate Target considering the Fission Gas Release Pressure at the Int. Particle Movement of the Thermo-Mechanical Behavior of the Low-Enriched Uranium Plate Target considering the Fission Gas Release Pressure at the Int. Particle Movement of the Thermo-Mechanical Behavior of the Low-Enriched Uranium Plate Target considering the Fission Gas Release Pressure at the Int. Particle Movement of the Thermo-Mechanical Behavior of the Low-Enriched Uranium Plate Target considering the Fission Gas Release Pressure at the Int. Particle Movement of	outling with BR2 Research Reactor
165 S. Mazidi Algeria Deterministic method for estimation of main neutronic safety parameters of NUR research reactor core	oupling with BR2 Research Reactor
168 F. Brollo Argentina Periodic Safety Review Process in RA-6 Research Reactor 169 E. Beretta Argentina A framework for the Research Reactors Deterministic Safety Analysis supported with specific software development and QA tools	oupling with BR2 Research Reactor

nternational Conference on

arc

Re

A. Messai L. Claramonte S. Kim

Y. Lu K. Waree L. Barrios
V. Castillo
A. Shepitchak
M. Gaheen

E. Rodriguez
M. Utoom
M. Gaheen

A. Al-Ibraheem
F. Ghangir
C. Trudeau
P. Kuswanto
A. Meliana

R. Batubara

O. Abdelgawad Y. Ibrahim
B. Mugalya
N. Elsokkary
M. Salem
F. El Banni

T. Sundari

A. Asuku R. Al Malkav

A. Wicaksono T. Cho M. Khalfa

J. Fuentes
S. Issaka
D. Nugumanov
T. Sakr

J. Ruille H. Elsayed W. Bakr D. Wisnubroto

H. Elsayed

Jordan

Investigating Stakeholder Perceptions of Jordan's Research and Training Reactor: A Survey-Based Approach Egypt Implementation of a Nuclear Knowledge Management Program on Decommissioning of Nuclear Facilities

IAEA IAEA Technical Cooperation Programme as a Tool to Support Research Reactor Safety and Utilization in Europe and Central Asia Saudi Arabia Building a robust safety culture for construction research reactor in an emerging nuclear country

188 210

83 95

196

Achievements, Experience and the Way to a Sustainable Future #ResearchReactors2023 December 2023 27 November — 1 Dead Sea, Jordan



	27 November —	Organized by the International Associate Energy Associated by the International Associated By the Internati
	Country	Title
	Algeria	Implementation of a Digital Reactivity-meter Using Xilinx Zyng System on Chip (SoCs) Devices
	Argentina	Best Estimate Deterministic modeling approach for Probabilistic Safety Assessment support
	Korea	Experimental works for Kijang Research Reactor
	Netherlands	Licensing approach for Loss Of Coolant Accident used in the Deterministic Safety Analysis of Research Reactors
	Egypt	Safety Analysis of Positive Reactivity in Research Reactor during Loss of Flow (LOF) Accident
	Egypt	Safety Analysis of Loss of Flow Accident in MTR Research Reactor
	China	Construction and Analysis of a Multi-layer Cylindrical Fuel Reactor Verification Benchmark using Monte Carlo Techniques
	Thailand	Dose Assessment of Maximum Hypothetical Accident (MHA) for a new research reactor
	Argentina	Advances and challenges in the application of periodic safety reviews in research reactors.
	Peru	Calculation of the axial peak factor and the average of the thermal neutron flux with U308 fuel elements of the reactor RP-10
	Ukraine	REVISION OF UKRAINE'S SAFETY REQUIREMENTS FOR RESEARCH REACTORS
	Egypt	Modeling and characterization of beryllium reflector elements under irradiation conditions
	Egypt	Study of Positive Reactivity in Research Reactor During Rod Ejection Accident
	Peru	EXPERIMENTAL DETERMINATION OF DELAYED NEUTRON FRACTION USING NEUTRON NOISE AND NEUTRON ACTIVATION ANALYSIS AT RP-10
	Colombia	EFFECT OF CADMIUM SPECIES ON THE VARIATION OF KINETIC PARAMETERS IN THE IAN-R1 NUCLEAR RESEARCH REACTOR
	Jordan	DESIGNING A PROGRAMME TO ASSESS AND CALCULATE THE TOTAL RADIATION DOSE FOR RADIATION WORKERS
	Egypt	Review of Thermal hydraulic Safety Aspects of Research Reactor Core
	Jordan	An Overview of Appropriate Medical Practice in Emergency Response to Radiological and Nuclear Emergencies: An Insight from the Middle East
	Libya Canada	Simulating Water Hammer behavior due to break in a Horizontal Channel of Tajoura Nuclear Research Centre's reactor using the Parent Model.
_	Indonesia	Aging Management in the ZED-2 Research Reactor Analysis of the Role of the National Vital Object Police in Enhancing Nuclear Security for Nuclear Research Reactors in Indonesia
	Indonesia	Pulsays of the Pole of the Mational vital Corpect File. In Eminating Moderal Security (in Moderal Research Reactors The Necessity of Secure Transportation of Nuclear and Radioactive Materials for Indonesian Research Reactors The Necessity of Secure Transportation of Nuclear and Radioactive Materials for Indonesian Research Reactors The Necessity of Secure Transportation of Nuclear and Radioactive Materials for Indonesian Research Reactors The Necessity of Secure Transportation of Nuclear and Radioactive Materials for Indonesian Research Reactors
		DEVELOPMENT OF A PORTABLE TRAINING KIT FOR OPTIMIZING COMPETENCY IN PHYSICAL PROTECTION SYSTEM MAINTENANCE AND REPAIR: A CASE STUDY OF A
	Indonesia	NUCLEAR RESEARCH REACTOR IN INDONESIA
	Egypt	DEVELOPMENT OF NUCLEAR SECURITY RISK MODEL FOR RESEARCH REACTORS AND ASSOCIATED FACILITIES
	Nigeria	Approach to Nuclear Security at the Nigeria Research Reactor-1 Facility
	Uganda	Developing and maintaining computer security plans to strengthen nuclear security for a Research Reactor
	Egypt	Deep learning-based Dynamic Risk Assessment Framework for Research Reactor Using Monitoring Data
	Egypt	DESIGN AND MODELING OF PASSIVE SPENT FUEL POOL COOLING SYSTEM FOR RESEARCH REACTORS
	Côte D'Ivoire	Deterministic assessment of the safety parameters of the (Th- 233U)-ZrH1.65 fuel for TRIGA reactor: Pin cell-level analysis
	Ghana	Utilization after the completion of Ghana's MNSR conversion from HEU to LEU and lessons learned
	Nigeria	HEU to LEU Fuel Conversion for NIRR-1: A Regulatory Perspective
	Egypt	Study of replacing LEU oxide fuel with LEU silicide fuel for the ETRR2 research reactor part one: neutronic calculations
	Indonesia	Experiences in Indonesian Wet Storage of Spent Nuclear Fuels and the Future Challenges Including Decommissioning Case of Tripa Bandung Reactor
_	Libya	Modification of Tajoura Research Reactor Fuel Elements Dimensions - Neutronic simulation Spent Nueser Fuels Testing and Inspentices on Death of Quellis Management in Tab Independing latering Starges for Coast Fuel
_	Indonesia	Spent Nuclear Fuels Testing and Inspections as a Part of Quality Management in The Indonesian Interim Storage for Spent Fuel 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
	Nigeria	From high Elimined drainain to Low Emicred drainain. Companson of Fuel Cycle Perioritaine of Accident-Tolerain Fuel for Optimization of Fuel Management of milinature Neutron Source Reactors
	Jordan	INSECUCIONS Burnup Calculations for the JRTR using Monte Carlo
	Indonesia	Benchmark for Neutronic Analysis of Kartini Reactor using SRAC2006 Code System
	Korea	Status of Developments of High-density Atomized USSi2 Fuel Plates in KAERI
	Algeria	Influence of the oxide film growth on temperature of fuel plate in benchmark IAEA Nuclear Research Reactor: Thermal-hydraulic calculation.
	Colombia	RADIOACTIVE INVENTORY OF TRIGA FUEL ELEMENTS IN THE IAN-R1 RESEARCH REACTOR
	Ghana	Enhancing Nuclear Security and safety in Ghana Research Reactor-1: Challenges and the Way Forward
	Kazakhstan	55th Anniversary of the WWR-K reactor: past, present, future
	Egypt	Medical Radioisotopes Production in ETRR-2 Complex: Strategic Plan
	Malaysia	Managing and Sustaining the Safe Use of the PUSPATITRIGA Reactor (RTP) in Malaysia: Challenges, Lesson Learned and Good Practices
	Nigeria	IMPLEMENTATION OF INTEGRATED MANAGEMENT SYSTEM IN NIGERIA RESEARCH REACTOR
	Indonesia	MODEL OF SAFETY PERFORMANCE INDICATOR ASSESSMENT IN RESEARCH REACTOR BASED ON THE REGULATORY INSPECTION PERSPECTIVE IN INDONESIA
	Azerbaijan	Education of scientific and technical personnel on nuclear and radiation technologies in Azerbaijan.
	France	Use of the graded approach in inspections of integrated management systems at two licensees (Laue-Langevin Institute and CEA)
-	Egypt Egypt	Safety and Security Requirements during the Decommissioning of Research Reactors Analysis of the Reported Research reactor events; Management system point of view
	Indonesia	Pularysis of the reported Research reactor events, wanadjernent system point or view Leveraging Strengths and Opportunities: A SWOT Analysis of Indonesia's Research Reactors for Advancing Science and Technology
	idonosia	
	.lordan	Investigating Stakeholder Percentions of Jordan's Research and Training Reactor: A Survey-Rased Approach



Hosted by the Government of the Hashemite Kingdom of Jord through Jordan Atomic Energy Commission (JAEC)