EUROPEAN **RESEARCH REACTOR** CONFERENCE

Conference Programme*

Monday 12 October

1PM – 2PM CET – Welcome Reception & Time to visit our exhibitors

Meet & Greet and see who else is there.

This session is an occasion for everybody to test the systems and make sure the connection, camera and microphone work.

2PM – 3PM CET – Poster Session

Tuesday 13 October

Plenary Sessions - Proliferation Resistance Optimization
(1PM – 2.30 PM CET)

Keynote speech by Jessica Halse, Assistant Deputy Administrator, U.S. National Nuclear Security Administration

Assistant Deputy Administrator Jessica Halse will give a welcome from the U.S. National Nuclear Security Administration. She will highlight the ways in which her team is rising to the challenges of COVID-19, present new initiatives in Proliferation Resistance, and the ways NNSA's Material Management and Minimization office is adapting to be a leader in nuclear nonproliferation for years to come.

Interview Brian Boyer, IAEA (tbc)

INPRO Methodology Focusing on Proliferation Resistance as an Issue for the Lifecycle and Use of Research Reactors

International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) looks at six areas of assessment. Economics area looks at competitiveness against alternatives available

* *As the organization of the conference is ongoing, the programme could be subject to further modifications*

(in the country). Waste management looks at managing waste so that humans and environment are protected and undue burdens on future generations are avoided. Infrastructure looks adequate infrastructure and effort to create / maintain it. Environment looks at the impact of stressors must stay within performance envelope of current NES. Resources sufficient to run Nuclear Energy System until end of 21 century. Safety looks to provide superiority against safety of existing plants. Finally, Proliferation Resistance evaluated the unattractiveness for a nuclear weapon program by combination of intrinsic features and extrinsic measures. We shall describe in brief how INPRO methodology could be used for looking at research reactors focusing on proliferation resistance. The areas of evaluation can provide an operator or designer of a research reactor insights on how to make the operations or design of a reactor and its surrounding systems provide more robust proliferation resistance. We shall describe the concepts of nuclear trade, intrinsic design features, and extrinsic policy and operational measures with a focus on safeguards.

Panel Discussion

Existing efforts related to proliferation resistance, particularly through the IAEA's International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO), focus on front-end fuel cycle facilities and new nuclear power plants. Building on these efforts, the expansion and application of proliferation resistance to research reactors and other types of facilities during design, construction, and utilization is being explored. A diverse group of participants will discuss current and future perceptions and applications for proliferation resistance.

Panellists:
- Byung-Chul Lee, KAERI, Korea
- Daniel Hergenreder, INVAP, Argentina
- Jaci Dickerson, NNSA, US
- Miles Pomper, James Martin Center for Nonproliferation Studies, US
- Vladimir Kryuchenkov, Rusatom Overseas, Russia

Moderator: Chris Landers, NNSA, US and Dennis Vinson, Savannah River National Laboratory, US

2:30PM – 5:50PMTechnical Sessions (in parallel)

Tuesday parallel sessions I: Fuel Cycle from Front End to Back End
2:30PM -3:30PM CEST

RRFM2020-A0160	Overview of IAEA Research Reactor Fuel Cycle Project	Marshall, F. (1) 1 - International Atomic Energy Agency, Austria
RRFM2020-A0074	RHF CONVERSION ANALYSIS: FEASIBILITY OF SILICIDE FUEL IN AN UNCONSTRAINED GEOMETRY	Bergeron, A. (1); Pham, S. H. (1); Licht, J. R. (1); Thomas, F. (2); Calzavara, Y. (2) 1 - Argonne National Laboratory, United States 2 - Institut Laue-Langevin, France

RRFM2020-A0132	NCCP: 45 YEARS OF STABLE FUEL SUPPLIES FOR RESEARCH REACTORS	Buymov, S. (1); Enin, A. (1); Salkova, E. (1) 1 - Novosibirsk Chemical Concentrates Plant, Russian federation

Tuesday parallel sessions I: Fuel Cycle from Front End to Back End

3:40PM -4:40PM CEST

RRFM2020-A0056	THE EMPIRE IRRADIATION TEST: FIRST RESULTS OF THE MONOLITHIC PIE	Baumeister, B. (1); Schwarz, C. (1); Reiter, C. (1); Steyer, C. (1); Stepnik, B. (2); Allenou, J. (2); Grasse, M. (2); Moyroud, C. (2); Johnson, R. (3); Mayfield, R. (3); Argon, G. (3); Miller, B. (4); Robinson, A. (4); Glagolenko, I. (4); Hanson, W. (4); Leenaers, A. (5); Wight, J. (5); Van den Berghe, S. (5); Palancher, H. (6); Hervieu, E. (6); Petry, W. (1) 1 - Technische Universität München - Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II), Germany 2 - Framatome - CERCA Division, France 3 - BWXT Nuclear Operations Group, United States 4 - Idaho National Laboratory (INL), United States 5 - Studiecentrum voor Kernenergie • Centre d'Étude de l'énergie Nucléaire (SCK•CEN), Belgium 6 - CEA, DEN, DEC, Cadarache , France
RRFM2020-A0145	Analysis of Preliminary PIE Results for PVD Coated U-7Mo Dispersion Fuel Plates Irradiated in the EMPIrE Experiment	Hofman, G. (1); Jamison, L. (1); Ye, B. (1); Mei, Z.-G. (1); Yacout, A. (1); Robinson, A. (2); Hanson, W. (2); Nielsen, J. (2); Keiser, D. (2); Leenaers, A. (3) 1 - Argonne National Laboratory, United States 2 - Idaho National Laboratory, United States 3 - SCK CEN, Belgium
RRFM2020-A0058	Scale Up of the TUM PVD Zr Coating Process for Monolithic U-Mo Fuel Foils	Schwarz, C. (1); Ploessner, N. (1); Mercz, J. (1); Steyer, C. (1); Baumeister, B. (1); Petry, W. (1) 1 - Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II), Technische Universität München, Germany

Tuesday parallel sessions I: Fuel Cycle from Front End to Back End
4:50PM -5:50PM CEST

RRFM2020-A0087	REPORT ON U3Si2/Al DISPERSION FUEL FOR HIGH-POWER RESEARCH REACTORS: analysis and resolution plan	Kim, Y. S. (1); Oaks, A. (1); Ye, B. (1); Jamison, L. (1); Mo, K. (1); Miao, Y. (1); Mei, Z. (1); Hofman, G. (1); Yacout, A. (1); Robinson, A. (2); Keiser, D. (2); Leenaers, A. (3) 1 - ANL, United States 2 - INL, United States 3 - SCK.CEN, Belgium

RRFM2020-A0107	Failure of LEU U-10Mo Monolithic Fuel Test Specimens During Irradiation	Cole, J. I. (1); Glagolenko, I. (1); Jones, W. (1); Jue, J.-F. (1); Housley, G. (1); Keiser jr., D. (1); Marshall, M. (1); Ozaltun, H. (1); Robinson, A. (1); Smith, J. (1); Schulthess, J. (1) 1 - Idaho National Laboratory, United States
RRFM2020-A0133	High Density Silicide Irradiations at BR2: Irradiation Results of the HiPROSIT and COBRA-FUTURE Experiments	Leenaers, A. (1); Van Eyken, J. (1); Van den Berghe, S. (1); Wight, J. (1); Stepnik, B. (2); Allenou, J. (2); Rontard, C. (2); Schwarz, C. (3); Baumeister, B. (3); Petry, W. (3); Palancher, H. (4); Hervieu, E. (4); Calzavara, Y. (5); Guyon, H. (5) 1 - SCK CEN, Belgium 2 - Framatome, France 3 - FRM II TUM, Germany 4 - CEA, France 5 - ILL, France

Tuesday parallel sessions II – Utilisation of Research Reactors
2:30PM -3:30PM CEST

RRFM2020-A0001	The idea of heat pump integration into the MARIA research reactor secondary cooling loop	Lipka, M. (1); Malicki, M. (2); Migdal, M. (1); Zwierzchowski, R. (3) 1 - National Centre for Nuclear Research, Poland 2 - New Energy Transfer, Poland 3 - Warsaw University of Technology, Poland
RRFM2020-A0006	Sustainability Management System Model for Operating Organizations of Nuclear Research Reactors.	Kibrit, E. (1); Aquino, A. R. D. (1) 1 - Instituto de Pesquisas Energéticas e Nucleares, IPEN–CNEN/SP, Brazil
RRFM2020-A0014	High-Resolution Residual Stress Neutron Diffraction Measurements in NPI Řež at Medium Power Research Reactor LVR-15	Mikula, P. (1); Strunz, P. (1); Šaroun, J. (1); Ryukhtin, V. (1) 1 - Nuclear Physics Institute ASCR, v.v.i., Czech Republic

Tuesday parallel sessions II – Utilisation of Research Reactors
3:40PM -4:40PM CEST

RRFM2020-A0034	THE COMPLETE ACTIVATION ANALYSIS LABORATORY: THERMAL, EPITHERMAL, CYCLIC, COMPTON SUPPRESSION, GAMMA-GAMMA AND PROMPT GAMMA FACILITIES	Landsberger, S. (1); Charlton, W. (1); Artnak, J. (1); Drescher, A. (1); Lohmeier, D. (2); Martinez, F. (2); Jose, P. (2) 1 - University of Texas, United States 2 - Los Alamos National Laboratory, United States
RRFM2020-A0066	The CABRI fast neutron Hodoscope: Calibration campaign results	Chevalier, V. (1); Mirotta, S. (1); Monchalin, N. (1) 1 - IRSN, France

RRFM2020-A0096	ADVANCED COLD NEUTRON SOURCES AT THE REACTOR PIK:(Status and development prospects)	Mityukhlyaev, V. (1); Onegin, M. (1) 1 - Petersburg Nuclear Physics Institute named by B.P.Konstantinov of NRC «Kurchatov Institute», Russian Federation

Tuesday parallel sessions II – Utilisation of Research Reactors

4:50PM – 6:30PM

RRFM2020-A0130	The VENUS facility from thermal to fast. An outlook of the last 10 years.	Kochetkov, A. (1); Billebaud, A. (2); Krasa, A. (1); Lecouey, J.-L. (2); Lecolley, F. R. (2); Lehau, G. (2); Marie, N. (2); Messaudi, N. (1); Vittiglio, G. (1); Wagemans, J. (1) 1 - SCK CEN, Belgium 2 - CNRS, France
RRFM2020-A0143	INCREASING NEUTRON BEAM FLUX BY CORE OPTIMIZATION	Steinitz, U. (1); Hayat, R. R. (1); Krakovich, A. (1); Makmal, T. (1); Neder, I. (1) 1 - Soreq Nuclear Research Center, Israel
RRFM2020-A0148	FIRST EXPERIMENTS ON THE NEW NEUTRON RADIOGRAPHY AND TOMOGRAPHY FACILITY AT THE WWR-K REACTOR	Shaimerdenov, A. (1); Mukhametuly, B. (1); Aitkulov, M. (1); Dyussambayev, D. (1); Nakipov, D. (1); Kenzhin, Y. (1); Nazarov, K. (2); Kichanov, S. (2); Kozlenko, D. (2) 1 - The Institute of Nuclear Physics, Kazakhstan 2 - Joint Institute for Nuclear Research, Russian Federation
RRFM2020-A0124	Teaching nuclear physics with the EVOC platform	Bonnaud, L.-J. (1); Wohleber, X. (2); Bailly, I. (1); Perrette, X. (1); Caranicolas, A. (3); Grard, H. (1) 1 - French Atomic and Alternative Energies Commission, National Institute for Nuclear Science and Technology, Saclay Centre, France 2 - French Atomic and Alternative Energies Commission, Nuclear Energy Division, Saclay Centre, France 3 - French Atomic and Alternative Energies Commission, Technological Research Division, Saclay Centre, France
RRFM2020-A0057	Establishment of the Integrated Research Reactor Utilization Review IAEA peer review service	Pessoa Barradas, N. (1); Borio di Tigliole, A. (1); Ridikas, D. (1); Sharma, R. (1) 1 - International Atomic Energy Agency, Austria

Wednesday 14 October

Plenary Sessions – Impact of the COVID19 Crisis on Research Reactors

(1PM – 2:45PM CET)

Interview Steven van Dyck, Reactor Manager of BR2, SCKCEN, Belgium

The impact of the COVID19 Crisis on a research reactor in operation

Keynote speech by Joao Osso, IAEA

Supply of Medical Radioisotopes and Radiopharmaceuticals – measures taken, and lessons learned

Panel Discussion: stakeholder view

- Bernard Ponsart, SCKCEN
- Gilles Degauque, TRANSRAD
- Ira Goldman, Lantheus Holdings, Security of Supply WG NMeu
- Wim Oyen, EANM

Moderated by Joao Osso, IAEA

Interview with Gilles Bignan, JHR User Interface Facility Manager, CEA

The impact of the COVID 19 Crisis on a new build project

2:45PM – 3:15PM Break and time to visit our exhibitors

Wednesday parallel sessions I: Fuel Cycle
3:15PM – 4:55PM

RRFM2020-A0149	Characterizations Of The U-7Mo Dispersed Fuel For The SEMPER FIDELIS In-Pile Test	Khair, M. (1); Callarec, E. (1); Tougait, O. (1); Allenou, J. (2); Stepnik, B. (2); Touzin, M. (3); Beclin, F. (3); Leenaers, A. (4); Palancher, H. (5) 1 - Unité de Catalyse et Chimie du Solide, Université de Lille, Cité Scientifique, F-59650 Villeneuve d'Ascq, France, France 2 - Framatome, CERCA, SPL, ZI Les Bérauds, 54 avenue de la déportation, BP 114, F-26104 Romans-sur-Isère, France, France 3 - Unité Matériaux et Transformations, Université de Lille, Cité Scientifique, F-59650 Villeneuve d'Ascq, France, France 4 - SCK CEN, Nuclear Material Science Institute, Boeretang 200, 2400 Mol, Belgium , Belgium 5 - CEA, DES, IRESNE, DEC, F-13108 Saint-Paul-lez-Durance, France, France

RRFM2020-A0159	Evaluating the origin of non-metallic inclusions in as-cast U-10Mo nuclear fuel	Kautz, E. (1); Shahrezaei, S. (1); Devaraj, A. (1); Soulami, A. (1); Frank, M. (1); Athon, M. (1); Lavender, C. (1); Joshi, V. (1) 1 - Pacific Northwest National Laboratory, United States
RRFM2020-A0069	MIT RESEARCH REACTOR LOW ENRICHED URANIUM FUEL CONVERSION STATUS UPDATE	Hu, L.-W. (1); Sun, K. (1); Dave, A. (1); Wilson, E. (2); Jaluvka, D. (2); Pham, S. (2) 1 - MIT Nuclear Reactor Laboratory, United States 2 - Argonne National Laboratory, United States
RRFM2020-A0153	LOW ENRICHMENT URANIUM NUCLEAR FUEL BASED ON URANIUM-ZIRCONIUM CARBONITRIDE:OF METHODICAL REACTOR EXPERIMENT AND THE RESULTS THEREOF	Sikorin, S. (1); Kuzmin, A. (1); Polozov, S. (1); Grigorovich, T. (1); Tukhvatulin, S. (2); Galev, I. (2); Mokrushin, A. (2); Bakhin, A. (2); Bazyuk, S. (2); Vishnevsky, V. (2); Izhutov, A. (3); Burukin, A. (3); Kaiser, D. (4); Bolshinsky, I. (4); Gohar, Y. (5) 1 - State Scientific Institution "JIPNR-Sosny", Belarus 2 - LUCH FSUE, Russian Federation 3 - JSC "SSC RIAR", Russian Federation 4 - Idaho National Laboratory , United States 5 - Argonne National Laboratory, United States
RRFM2020-A0158	Modeling the Effect of Microstructure and Rolling Treatment on Thickness Variation and Static Recrystallization Behavior in Monolithic U-10Mo Fuel Foils	Soulami, A. (1); Li, L. (1); Frazier, W. (1); Choi, K. S. (1); Lavender, C. (1); Joshi, V. (1) 1 - Pacific Northwest National Laboratory, United States

Wednesday parallel sessions I: Fuel Cycle
5:00PM – 6:20PM

RRFM2020-A0076	COMPREHENSIVE SOLUTIONS FOR RESEARCH REACTORS' BACK-END OPERATIONS	Chabeuf, J.-M. (1); Le Blevennec, R. (2); Talbi, A. (3); Valery, J.-F. (3); Vo van, V. (3) 1 - Orano DS, France 2 - Orano TN, France 3 - Orano Cycle, France
RRFM2020-A0117	CONVERGING PLANS FOR SPENT NUCLEAR FUEL MANAGEMENT AT FIR 1 TRIGA REACTOR	Auterinen, I. (1); Airila, M. (1) 1 - VTT Technical Research Centre of Finland, Finland
RRFM2020-A0155	PREPARATIONS FOR SHIPMENT OF SPENT NUCLEAR FUEL KAZAKHSTAN TO THE RUSSIAN FEDERATION	Dewes, J. (1); Bolshinsky, I. (1); Gnyrya, V. (2); Koyanbayev, Y. (2); Korovikov, A. (2); Chakrov, P. (3) 1 - Idaho National Laboratory, United States 2 - National Nuclear Center of the Kazakhstan Ministry of Energy, Kazakhstan 3 - International Atomic Energy Agency, Austria
RRFM2020-A0157	COLD TRIAL OF THE CASTOR® MTR3 AT THE FRM II RESEARCH REACTOR	Romanowski, D. (1) 1 - GNS Gesellschaft für Nuklear-Service mbH, Germany

Wednesday parallel sessions II: Utilisation
3:15PM – 4:55PM

RRFM2020-A0078	Importance of High Performance Research and Test Reactors in the U.S.	Wilson, E. (1); Newton, jr., T. (2); Foyto, L. (3); Hu, L.-W. (4); Jenkins, J. (5); Meszaros, J. (6) 1 - Argonne National Laboratory, United States 2 - National Institute of Standards and Technology, United States 3 - University of Missouri-Columbia Research Reactor, United States 4 - Massachusetts Institute of Technology, United States 5 - Idaho National Laboratory, United States 6 - Oak Ridge National Laboratory, United States
RRFM2020-A0050	Stables isotopes supply by Orano to RR community	D Hennezel A. (1); Bertrand, P. (1); Bigot, L. (1) 1 - Orano Cycle, France
RRFM2020-A0072	Optimization of Material Testing Research (MTR) ReactorsIsotope Production	Abdalaziz , R. O. (1); Ali Amin, E. (2) 1 - Sudan Atomic Energy Commission, Sudan 2 - Egyptian Nuclear & Radiological Regulatory Authority, Egypt
RRFM2020-A0082	Present status and new developments of Boron Neutron Capture Therapy: moving from research reactors to in-hospital based accelerator technologies	Ridikas, D. (1); Swainson, I. (1); Igawa, K. (2); Belyakov, O. (1); Ono, K. (3); Kamitani, K. (1) 1 - International Atomic Energy Agency, Vienna International Centre, Vienna, Austria 2 - Neutron Therapy Research Centre, Okayama University, Okayama, Japan 3 - Kansai BNCT Medical Center, Osaka Medical College, Osaka, Japan, Japan
RRFM2020-A0008	THERMAL HYDRAULIC ANALYSIS OF COBALT AND IRIDIUM PRODUCTION IN A NUCLEAR RESEARCH REACTOR	Elsaied, M. (1); Badawi, A. (2); Mohamed, N. (1); El Saghir, A. (2); Abo Elnour , A. (3) 1 - ETRR-2, Atomic Energy Authority, Egypt 2 - Department of Nuclear and Radiation Engineering, Alexandria University , Egypt 3 - Atomic Reactors Department, Atomic Energy Authority, Egypt

Wednesday parallel sessions II: New Research Reactor Projects
5:00PM – 6:20PM

RRFM2020-A0028	A New Critical Assembly : STACY	Araki, S. (1); Kobayashi, F. (1); Guniji, S. (1); Izawa, K. (1); Tonoike, K. (1); Ogawa, K. (1) 1 - Japan Atomic Energy Agency, Japan
RRFM2020-A0131	CONSTRUCTION OF LOW-POWER RESEARCH REACTOR FOR CENTERS FOR NUCLEAR SCIENCE AND TECHNOLOGY	Fomin, D. (1); Izhutov, A. (1); Svistunov, V. (1); Shabanov, I. (1); Pimenov, V. (1); Kuatbekov, R. (2) 1 - JSC State Scientific Center - Research Institute of Atomic Reactors, Russian Federation 2 - JSC RUSATOM OVERSEAS, Russian Federation
RRFM2020-A0083	REALISING A SAFE, HIGH UTILISATION RESEARCH REACTOR – DEVELOPMENT OF THE PALLAS PROJECT	Mcgrath, M. (1); Tielens, T. (1); Van der Walt, M. (1) 1 - PALLAS, Netherlands
RRFM2020-A0147	Conceptual design of nuclear micro-reactors	Ruiz, K. (1); Villarino, E. (2); Marino, A. (1) 1 - Comisión Nacional de Energía Atómica, Argentina 2 - INVAP, Argentina

Thursday Technical Sessions: Operation & maintenance and ageing management

1PM – 2PM CEST

RRFM2020-A0021	REFURBISHMENT OF RESEARCH REACTORS IN THE RUSSIAN FEDERATION: ACHIEVEMENTS AND REGULATORY ISSUES	Sapozhnikov, A. (1) 1 - Rostechnadzor, Russian Federation
RRFM2020-A0022	High Flux Reactor Continued Safe Operation - Update 2020	Stefanini, L. (1); Ratti, L. (1); Wouters, O. (1); De Haan-de Wilde, C. (1) 1 - NRG, Netherlands
RRFM2020-A0041	Optimization of the IR-8 reactor maintenance as an experimental base for structural materials and perspective fuel compositions research	Erak, D. (1); Nasonov, V. (1); Pesnya, Y. (1); Kruglikov, A. (1); Glyva, K. (1); Trofimchuk, V. (1) 1 - NRC Kurchatov institute, Russian Federation

Thursday Technical Sessions: Decommissioning and dismantling of research reactors and waste management (parallel I)

2:05PM – 3:25PM CEST

RRFM2020-A0119	IAEA assistance in research reactor decommissioning	Michal, V. (1) 1 - IAEA, Austria
RRFM2020-A0121	Summary of IAEA Technical Meeting Concerning Research Reactor Radioactive Waste	Marshall, F. (1); Robbins, R. (1) 1 - International Atomic Energy Agency, Austria
RRFM2020-A0151	Giving birth to the first decommissioning licence in Finland. Case FiR 1 TRIGA reactor at VTT	Airila, M. (1) 1 - VTT Technical Research Centre of Finland Ltd, Finland
RRFM2020-A0139	Decommissioning CONSORT – Reactor Vessel and Bioshield Dismantling	Phillips, H. (1); Chambers, T. (1) 1 - Imperial College, United Kingdom

Thursday Technical Sessions: Decommissioning and dismantling of research reactors and waste management (parallel I)

3:30PM – 4:50 CEST

RRFM2020-A0154	FLOW CHARACTERISTICS FOR A SIPHON BREAKER DESIGN OF OPEN POOLS RESEARCH REACTORS	Carlevaris, R. (1); Doval, A. (1) 1 - INVAP SE, Argentina
RRFM2020-A0061	Logistic Solutions for Research Reactors Waste Management	Talbi, A. (1); Le Blevennec, R. (2); Grandhomme, C. (2) 1 - Orano, France 2 - Orano TN, France
RRFM2020-A0146	EXPERTISE AND CAPABILITIES OF LUCH FSUE IN URANIUM-CONTAINING MATERIALS RECYCLING	Karbolin, P. (1); Kornilov, P. (1); Shestykh, D. (1); Fedin, O. (1); Deniskin, V. (1) 1 - LUCH FSUE, Russian Federation
RRFM2020-A0012	Identification of Risk Factor and Evaluation of Associated Consequences of IRT-5000 Research Reactor Pool	Ahmed, B. (1)

		1 - Ministry of Health and Environment / Radiation Protection Center, Iraq
RRFM2020-A0055	Liquid SNF Removal and Decommissioning of IIN 3M Research Reactor	Baytelesov, S. (1); Derganov, D. (2); Kungurov, F. (1); Kuzmin, I. (2); Michal, V. (3); Salikhbaev, U. (3) 1 - Institute of Nuclear Physics, Uzbekistan 2 - Sosny R&D Company, Russian Federation 3 - International Atomic Energy Agency, Austria

Thursday Technical Sessions: Research Reactor safety and security (parallel II)
2:05PM – 3:25PM CEST

RRFM2020-A0037	PRELIMINARY ASSESSMENT OF THE SAFETY CRITERIA FOR THE 4EVERTEST FUEL ASSEMBLY IRRADIATION IN THE FRAME OF THE LEU-FOREVER PROJECT	Romanello, V. (1); Dambrosio, A. (1); Ernest, J. (1); Zabcikova, M. (2); Hrehor, M. (2); Boyard, M. (3); Huet, F. (3) 1 - Research Center Rez (CVR), Czech Republic 2 - National Radiation Protection Institute (SURO), Czech Republic 3 - TechnicAtome (TA), France
RRFM2020-A0070	IMPACT ASSESSMENT FOR THE MIT RESEARCH REACTOR LEU FUEL FABRICATION	Allen, D. (1); Dave, A. (1); Sun, K. (1); Hu, L.-W. (1); Pham, S. (2); Jaluvka, D. (2); Wilson, E. (2) 1 - MIT Nuclear Reactor Laboratory, United States 2 - Argonne National Laboratory, United States
RRFM2020-A0097	Storage and Criticality Analysis for University of Missouri Research Reactor Low-Enriched Uranium Fuel Element Conversion	Yoon, D. (1); Cowherd, W. (1); Stillman, J. (1); Feldman, E. (1); Wilson, E. (1); Foyto, L. (2); Kutikkad, K. (2); Peters, N. (2) 1 - Argonne National Laboratory, United States 2 - University of Missouri-Columbia Research Reactor, United States

Thursday Technical Sessions: Research Reactor safety and security (parallel II)
3:30PM – 4:50 CEST

RRFM2020-A0114	First Periodic Safety Review in MARIA Research Reactor after 45 years of operation	Wilińska, E. (1) 1 - National Centre for Nuclear Research, Poland
RRFM2020-A0118	Comparison of RODOS and LASAIR for simulation of dispersion scenarios after severe accidents in TRIGA MARK II reactor	Langegger, E. (1); Böck, H. (1); Villa, M. (1); Hofer, P. (2) 1 - Atominstitut, TU Wien, Austria 2 - Ministry for Sustainability and Tourism, Division I/7 Radiation Protection , Austria
RRFM2020-A0142	Study of the impact of using different WIMSD Lattice Code libraries on the Neutronic Cross section values	Abdalaziz, R. O. (1); Alfaki, A. (1) 1 - Sudan Atomic Energy Commission - Radiation & Nuclear Safety Institute , Sudan
RRFM2020-A0003	COMPUTER SECURITY: FOCUS ON DIGITAL NUCLEAR SAFETY I&C PLATFORM	Duthou, A. (1); Magot, D. (1) 1 - Rolls-Royce Civil Nuclear, France

RRFM2020-A0152	Theoretical Investigation of the Effect of Flux-Trap inside MTR Core on the Power-Peaking Factor and Burnup	Neder, I. (1); Steinitz, U. (1); Hayat, R. (1) 1 - Soreq Nuclear Research Center, Israel

Thursday Technical Sessions: Innovative methods in reactor physics and thermo-hydraulics (parallel III)
2:05PM – 3:25PM CEST

RRFM2020-A0071	Involute Working Group – Progress towards Validation of CFD for Involute-Plate Reactors Safety Analysis	Bojanowski, C. (1); Bergeron, A. (1); Licht, J. (1) 1 - Argonne National Laboratory, United States
RRFM2020-A0079	Progress on Reactor Analysis Code Benchmark to AFIP-7 Experiment	Stillman, J. (1); Peguero, L. (1); Smith, M. (1); Jaluvka, D. (1); Mohamed, W. (1); Wilson, E. (1) 1 - Argonne National Laboratory, United States
RRFM2020-A0144	EXTENSIONS OF SUBCHANFLOW FOR THERMAL HYDRAULIC ANALYSIS OF MTR-CORES	Almachi Nacimba, J. C. (1); Imke, U. (1); Sanchez Espinoza , V. H. (1) 1 - Karlsruhe Institute of Technology (KIT), Institute for Neutron Physics and Reactor Technology (INR), Germany
RRFM2020-A0020	A USER PERSPECTIVE ON AN IAEA PROJECT: "BENCHMARKS OF COMPUTATIONAL TOOLS AGAINST EXPERIMENTAL DATA ON FUEL BURNUP AND MATERIAL ACTIVATION FOR UTILIZATION, OPERATION AND SAFETY ANALYSIS OF RESEARCH REACTORS"	Mladin, M. (1) 1 - Institute for Nuclear Research Pitesti, Romania

Thursday Technical Sessions: Innovative methods in reactor physics and thermo-hydraulics (parallel III)
3:30PM – 4:50 CEST

RRFM2020-A0024	Deterministic and Stochastic assessment of an Education & Training neutronic session in TechnicAtome	Maresq, M. (1); Bouret, C. (1); Chabert, L. (1); Manifacier, L. (1) 1 - TechnicAtome, France
RRFM2020-A0029	OPTIMIZED BR2 CONTROL ROD CONFIGURATIONS FOR THE TOWARD COBRA FUEL WITH GADOLINIUM ABSORBER	Kalcheva, S. (1); Van den Branden, G. (1); Van Dyck, S. (1); Van den Berghe, S. (1) 1 - SCK-CEN, Belgium
RRFM2020-A0063	Evaluation of various uncertainty propagation approaches as applied to the calculation of the SAFARI-1 peak clad temperature.	Khoza, S. (1); Erlank, A. (1); Bokov, P. (1); Van Heerden, F. (1); Prinsloo, R. (1); Montwedi, E. (1) 1 - Nuclear Energy Corporation of South Africa (Necsa), South Africa
RRFM2020-A0092	EVALUATION OF APPROXIMATIONS AND UNCERTAINTIES IN THEORETICAL MODELS DESCRIBING PULSE MODE OPERATION	Vavtar, I. (1); Čalič, D. (1); Pungerčič, A. (1); Snoj, L. (1) 1 - Jozef Stefan Institute, Slovenia

Thursday 15 October

5:10PM – 5:30PM CEST – Happy Hour: Closing of the Research Reactor Conference 2020 and announcement of research reactor conferences 2021

POSTER Presentations

RRFM2020-A0035	Lessons learned from the preparation of technical specifications of safety grade nuclear instrumentation systems for a new Korean research reactor	Suh, Y. (1) 1 - Korea Atomic Energy Research Institute, Korea, Republic of
RRFM2020-A0065	Modelling of U3Si2-Al dispersion fuel plates	Ye, B. (1); Hofman, G. (1); Yacout, A. (1); Bergeron, A. (1) 1 - Argonne National laboratory, United States
RRFM2020-A0095	COMPREHENSIVE NEUTRON FLUX AND SAFETY CRITICAL RADIATION MONITORING FOR TEST, RESEARCH AND TRAINING REACTORS	Gueldner, I. (1); Liebhart, E. (1) 1 - Mirion Technologies (MGPI H&B) GmbH, Germany
RRFM2020-A0141	Chemical thermodynamics of RuO2(s)	Nuta, I. (1); Chatillon, C. (1); Roki, F.-Z. (1); Fischer, E. (1) 1 - Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP, F-38000 Grenoble, France
RRFM2020-A0004	DIGITAL - ANALOG: CHOOSING THE MOST SUITABLE SAFETY I&C PLATFORM FOR RESEARCH REACTOR	Duthou, A. (1); Mauduit, J.-P. (1); Boue, A. (1) 1 - Rolls-Royce Civil Nuclear, France
RRFM2020-A0025	EXPERIMENTAL AND CALCULATED DATA ON CRITICALITY OF HEXAGONAL LATTICES OF 90 % ENRICHED URANIUM FUEL RODS WITH AND WITHOUT THE BORON ABSORBER RODS IN WATER	Sikorin, S. (1); Mandzik, S. (1); Polazau, S. (1); Kuzmin, A. (1); Damarad, Y. (1); Razmyslovich, Y. (1); Hryharovich, T. (1) 1 - The Joint Institute for Power and Nuclear Research-Sosny of the National Academy of Sciences of Belarus, Belarus
RRFM2020-A0064	Parametrical study for the coupling of a Silicon Carbide (SiC) detector and a calorimeter to measure simultaneously neutron flux and radiation absorbed dose rate in research reactors.	Valero, V. (1); Ottaviani, L. (1); Lyoussi, A. (2); Carette, M. (1); Brun, J. (1); Reynard-Carette, C. (1); Volte, A. (1) 1 - Aix Marseille Univ, Université de Toulon, CNRS, IM2NP, Marseille, France, France 2 - CEA, DEN, DER, Instrumentation Sensors and Dosimetry Laboratory, Cadarache, F-13108, Saint Paul-lez-Durance, France, France
RRFM2020-A0084	The MOBIL-APP program: a new international mobility program in the field of nuclear instrumentation for research reactors	Reynard-Carette, C. (1) 1 - Aix Marseille Univ, Université de Toulon, CNRS, IM2NP, Marseille, France, France
RRFM2020-A0086	Innovation in Waste Management	Talbi, A. (1); Chabeuf, J. M. (2) 1 - Orano, France 2 - Orano DS, France
RRFM2020-A0093	Microstructural characterization of an EMPIrE fresh monolithic mini-plate with Zr-PVD coating	Iltis, X. (1); Drouan, D. (1); Blay, T. (1); Zacharie-aubrun, I. (1); Sabathier, C. (1); Onofri-marroncle, C. (1); Palancher, H. (1); Baumeister, B. (2); Steyer, C. (2); Schwartz, C. (2); Petry, W. (2); Stepnik, B. (3); Allenou, J. (3); Hervieu, E. (4); Forgeron, T. (4)

		1 - CEA, DES, IRESNE, DEC, Cadarache, F-13108 Saint Paul Lez Durance, France 2 - FRMII, TUM, Lichtenbergstr. 1, D-85747 Garching, Germany 3 - FRAMATOME, CERCA, SPL, ZI Les Bérauds, 54 Avenue de la Déportation, BP 114, F-26104 Romans sur Isère, France 4 - CEA, DES, EC, DPE, Saclay, F-91191 Gif sur Yvette Cedex, France
RRFM2020-A0122	Proliferation Resistance Optimization Program (PRO-X)	Landers, C. (1); Dix, J. (1); Waud, B. (1); Dickerson, J. (1); Soule, M. (1); Stevens, J. (2); Morman, J. (2); Connaway, H. (2); Iyer, N. (3); Vinson, D. (3) 1 - U.S. Department of Energy, United States 2 - Argonne National Laboratory, United States 3 - Savannah River National Laboratory, United States 4 - International Atomic Energy Agency, Austria
RRFM2020-A0126	First LEU Fuel Coupons Manufacturing for KUCA Dry Cores Conversion	Allenou, J. (1); Stepnik, B. (1); Coullomb, C. (1); Rontard, C. (1); Unesaki, H. (2); Misawa, T. (2); Morman, J. (3); Stevens, J. (3) 1 - Framatome - CERCA, France 2 - KURNS, Japan 3 - ANL, United States
RRFM2020-A0127	Modeling of the UMo dispersed fuel plate hot rolling manufacturing process	Allenou, J. (1); Bourdat, G. (1); Stepnik, B. (1); Pigeat, X. (1); Querez, V. (1); Gaillac, A. (1) 1 - Framatome - CERCA, France
RRFM2020-A0128	3D printing initiative in Framatome-CERCA - Work in progress	Stepnik, B. (1); Liboutet, E. (1); Rontard, C. (1) 1 - Framatome, France
RRFM2020-A0013	Radiological risk of Ground Water at Al- Tuwaitha Nuclear Site	Ahmed, B. (1) 1 - Ministry of Health and Environment / Radiation Protection Center , Iraq
RRFM2020-A0053	Advanced spectrometry solutions for D&D towards clearance and characterization	Rotty, M. (1); Evrard, O. (2); Elseviers, J. (2) 1 - Mirion Technologies – Canberra, Z.1. Researchpark 80, 1731 Zellik -Belgium , Belgium 2 - Mirion Technologies – Canberra, Lammerdries Oost 25, 2250 Olen -Belgium, Belgium