

Sunday, November 4
Sheraton Grand Hotel and Spa

Registration: 4:30 – 6:00 pm, Atrium (Level 2)

Welcome Reception: 6:00 – 7:30 pm, Atrium End Section

#	Session Title	Time	Paper Title	Presenter
Monday, November 5 Meeting Room: Sheraton Grand Hotel, Edinburgh Suite (Level 2)				
	Opening and Welcome John Stevens	9:00 am	Welcome to Edinburgh and the RERTR-2018 International Meeting	Graham Webber Deputy Director, UK Department for Business, Energy and Industrial Strategy
1	Global Progress in HEU Minimization Chaired by Chris Landers (DOE-NNSA)	9:15 am	Welcome Remarks	Brent Park Deputy Administrator for Defense Nuclear Nonproliferation, US Department of Energy's National Nuclear Security Administration
			HEU Minimization, An International Collaboration	Peter Hanlon (DOE-NNSA)
			Conversion of Nigeria's MNSR and Lessons Learned from Operator Perspective	Sunday Jonah (CERT)
			Status of U-Mo Qualification Program and KJRR Project in Korea	Sangik Wu (KAERI)
10:00 am Coffee Break, Shared Atrium Area				
2	LEU Conversion and HEU Removal Operations – Lessons Learned Chaired by Andrew Gray (INS)	10:30 am	Status of Ghana's MNSR; One Year after Conversion to LEU	Henry Odoi (GAEC)
			Conversion Project of the WWR-K Research Reactor: Summary of Activities	Asset Shaimerdenov (KZ-INP)
			Preparations for Shipment of Irradiated HEU Nuclear Fuel from Nigeria to China	John Dewes (INL)
			When the Party Ends: Maintaining Support for Reactor Conversion in Challenging Times	Miles Pomper (James Martin Center)
12:00 pm Lunch Break				
3	LEU Fuel Design Chaired by Geert Van den Branden (SCK•CEN)	1:30 pm	Preliminary Uranium Manufacturing Studies of the KUCA LEU Conversion Fuels	Jérôme Allenou (Framatome – CERCA™)
			US High Performance Research Reactor Preliminary Design Milestone for Conversion to Low Enriched Uranium Fuel	Erik Wilson (ANL)
			Progress of Transient Reactor Test Facility (TREAT) Low Enriched Uranium (LEU) Conversion	Buddy Hartman (INL)
			Smallest Thinkable LEU Elements for FRM II with Most Progressive and Also Most Conservative Fuel Options	Anton Röhrmoser (FRM II)
			Current Status of the DNRR and Conceptual Design of New Research Reactor Using LEU Fuels with High Power and Multi-Purpose	Kien Cuong Nguyen (VINATOM)
3:30 pm Coffee Break, Shared Atrium Area				
4	LEU Fuel Qualification Chaired by Godwin Omeje (NNRA)	4:00 pm	U-Mo Monolithic Fuel Qualification for US High Performance Research Reactors	James Cole (INL)
			Progress of Mini-Plate Irradiation Testing for U-Mo Monolithic Fuel Qualification	Margaret Marshall (INL)
			Qualification of HANARO Fuel at KAERI	Jong Man Park (KAERI)
			Preliminary Results of Qualification Tests for LEU Fuel for Research Reactors IVG.1M and IGR of the National Nuclear Center of the Republic of Kazakhstan	Alexandr Vurim (IAE-NNC)
			IAEA Activities on the Safety of Research Reactors: 2018 Update	David Sears (IAEA)
6:00 pm Adjourn				

Tuesday, November 6				
Meeting Room: Sheraton Grand Hotel, Edinburgh Suite				
5	Fuel Fabrication Technology I Chaired by Ross Finlay (ANSTO)	8:00 am	CERCA™ Building the Future Investment in Fabrication Facility Upgrade for Long Term Security of Supply	Yann Guinard (Framatome-CERCA™)
			USHPRR Fuel Fabrication Pillar Fabrication Status, Process Optimizations and Future Plans	Jared Wight (PNNL)
			Analysis of U-10Mo Fuel Plate Fabrication Data	Curt Lavender (PNNL)
			Production of Surrogate Fuel Plates with Monolithic Gradient Foils	Bruno Baumeister (FRM II)
9:30 am Coffee Break, Shared Atrium Area				
6	High Performance Reactor Conversions Chaired by Erik Wilson (ANL)	10:00 am	Recent Progress on the MIT Research Reactor (MITR) Conversion from Highly Enriched Uranium to Low Enriched Uranium Fuel	Lin-Wen Hu (MIT)
			Conversion Status of the University of Missouri-Columbia Research Reactor from Highly Enriched to Low-Enriched Uranium Fuel	Les Foyto (MURR)
			Activities in Support of Conversion of the NBSR to LEU Fuel	Tom Newton (NIST)
			Continuing LEU Conversion Activities at the High Flux Isotope Reactor	David Renfro (ORNL)
			Status on the ATR LEU Conversion and Insertion of Lead Test Elements	Eric Woolstenhulme (INL)/ Kyle Metzroth (MPR)
12:00 pm Lunch Break				
7	Fuel Fabrication Technology II Chaired by Luis Olivares (CCHEN)	1:30 pm	USHPRR Fuel Fabrication Pillar MP-1 Process Improvements and Future Plans	Bruce Nielson (INL)
			Silicide Fuel Plate Manufacturing at BWX Technologies	Mike Nilles (BWXT)
			CERCA™'s 40 Years' Experience in U ₃ Si ₂ Fuel Manufacturing	Bertrand Stepnik (Framatome-CERCA™)
			Development of an Efficient Mechanical Performance Model for U-Mo/Al Dispersion Fuel	Latif Yacout (ANL)
			Research Reactors Back-End Operations: Growing Needs and Available Services	Vanessa Vo Van (Orano Cycle)
3:30 pm Coffee Break, Shared Atrium Area				
8	Utilizing Reactor Consortia Chaired by Eric Hervieu (CEA)	4:00 pm	National Scientific User Facility Irradiation Capabilities at the Idaho National Laboratory	Joe Nielsen (INL)
			Progress Update in Advanced Materials and Instrumentation Irradiation Tests at the MIT Research Reactor	Lin-Wen Hu (MIT)
			IAEA Designated International Centres based on Research Reactors (ICERRs)	Tom Hanlon (IAEA)
			On the Utilization of Research Reactors at Kyoto University and Kindai University, Japan	Hironobu Unesaki (Kyoto University)
			TN® Lab – A New Multimodal High Activity Radionuclide Transport Cask	Renaud Le Blévennec (Orano TN)
6:00 pm Poster Session, Refreshments, Shared Atrium Area				
		6:00 – 7:30 pm	Results of the MP-1 Low and Medium Power Experiment Fabrication at BWX Technologies	Gunes Argon (BWXT)
			Surface Characterization of As-Produced and Oxidized UMo Atomized Powder	Bertrand Stepnik (Framatome – CERCA™)
			Non-destructive PIE of Irradiated KJRR-LTA of U-Mo Dispersion Fuel	Young-Wook Tahk (KAERI)
			Lessons Learned from the Safety Assessments/Licensing of NIRR-1 to LEU Fuel	Kayode Adedoyin (NNRA)
			Hot Isostatic Pressing Process Optimization of 6061 Aluminum Cladding for U-10Mo Fuel Plates	Erik Luther (LANL)

9	Poster Session – Refreshments Chaired by Caryn Warsaw (ANL)		The Impact of Process Modeling and Characterization on the Fabrication of MP-1 and Future Experiments	Vineet Joshi (PNNL)
			Uranium Adsorption from Uranium Silicide Alkaline Dissolution Using a Strong Base Anion Exchanger	Jabulani Gama (Necsa)
			Statistical Study of U-Mo-Zry-4 Miniplates Fabrication Process	Marisol López (CNEA)
			Safety Analysis of Kharkov Low-Enriched Fuel Assembly	Yuri Mahlers (INR)
			Characterization Status of the LEU High Density Uranium Zirconium Carbon Nitride Fuel for Different Utilizations	Igor Bolshinsky (INL)
			Back In Line: WWR-SM Research Reactor Operation, Plans for the Future	Sapar Baytelesov (UZ-INP)
			Progress in the Development of Irradiation Targets for Production of Mo-99 in Brazil	Michelangelo Durazzo (IPEN/CNEN-SP)
			Validation Against Experimental Data of the INVAP Calculation Line for Mo-99 Production from LEU Plates	Facundo Boschetti (INVAP)
			Y-12 National Security Complex U-Mo Casting Update	Hollie Longmire (Y-12)
			U.S. High Performance Research Reactor Fuel Element Specifications	David Jaluvka (ANL)
			The Mo Distribution and Grain Refining in Monolithic U-Mo Fuels	Jan-Fong Jue (INL)
			INVAP Experience in Human Resources Training and Qualification in Research Reactor Analysis	Eduardo Villarino (INVAP)
			Phase Quantification in Uranium Aluminide Ingot	Giovanni Conturbia (IPEN/CNEN-SP)
			Benchmark Evaluation of Reduced Enrichment Experiments to Expand Available International Handbook Validation Data	Margaret Marshall (INL)
	Generic Test Plate Assembly Flow Testing Update 2018	Warren Jones (INL)		

7:30 pm Adjourn

Wednesday, November 7

Meeting Room: Sheraton Grand Hotel, Edinburgh Suite

10	Fuel Irradiation Testing and Characterization Chaired by Facundo Boschetti (INVAP)	8:00 am	Performance of Two COBRA-HEU LTAs with Gadolinium Absorbers Irradiated in the BR2 Reactor	Steven Van Dyck (SCK•CEN)
			European MiniPlate Irradiation Experiment (EMPIRE) Status Update	Irina Glagolenko (INL)
			Microstructural Characterization in Support of the EMPIRE Irradiation Experiment	Dennis Keiser (INL)
			Experiment Validation Protocol for Flux Wire Measurements in the Advanced Test Reactor	Joe Nielsen (INL)
			SEMPER FIDELIS Irradiation Status Report and First Results	Sven Van den Berghe (SCK•CEN)

10:00 am Coffee Break, Shared Atrium Area

11	Conversion and Systems Analyses Chaired by Henri Cecil Odoi (GAEC)	10:30 am	Development of Hot Channel Factors for Pin-Type Fuel in an Annular Geometry	Jeremy Licht (ANL)
			Systems Engineering Application to U.S. High Performance Research Reactor Conversion Program	Mike Cercy (SRNL)
			Experimental Validation of CFD Turbulent Models Relevant for Involute-Plate Reactor	Aurelien Bergeron (ANL)
			INVAP Nuclear Engineering Department Calculation Suite	Eduardo Villarino (INVAP)
			Validation of the HOR Reactor Model	August Winkelman (Delft)

12:30 pm Lunch Break

12	Fuel Performance Measurement, Analysis and Modeling Chaired by Les Foyto (MURR)	2:00 pm	Comparison of Properties and Fuel Performance Data Presented in the Preliminary UMo Report with Current US High Performance Design Basis Analyses	David Jaluvka (ANL)
			Follow on Investigation of U-Mo Monolithic Fuel Swelling in the AFIP-6 MK II Experiment	Adam Robinson (INL)
			UT Signals Processing for Characterization of UMo Fuel Plates	Luis Olivares (CCHEN)
			Simulation of U-Mo Full-Size Fuel Plates – Recent DART-2D Enhancements	Bei Ye (ANL)
			Microstructural Characterization of SEMPER FIDELIS Fresh Fuel Plates	Hervé Palancher (CEA)
5 Minute Break				
4:00 pm Summary and Closure Chris Landers (DOE-NNSA) and John Stevens (ANL)				
Adjourn				

Wednesday, November 7 and Thursday, November 8	Optional Technical Tour — Hosted by International Nuclear Services (INS) of the New INF3-Class Shipping Vessel <i>PACIFIC EGRET</i> Operated by Pacific Nuclear Transport LTD (Bus transportation provided) Buses will depart the Sheraton Grand Hotel and Spa on Wednesday, November 7 at 1:30 pm and 3:00 pm and Thursday, November 8 at 9:00 am and 10:30 am
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