

The U.S. Department of Energy / National Nuclear Security Administration's Office of Material Management and Minimization will host "RERTR-2017 – 38th International Meeting on Reduced Enrichment for Research and Test Reactors" in Chicago, Illinois, USA from November 12-16, 2017.

Technical Program (Preliminary)

This document is still subject to minor changes and is to be considered as PRELIMINARY. Please check frequently back with us for updates. Updated versions of this document will be published as soon as they become available on the RERTR web site at http://www.rertr.anl.gov/meeting_announcements/2017/agenda.html.

The Meeting Organizers:





Sunday, November 12

Embassy Suites Chicago Downtown/Magnificent Mile Hotel

Registration: 4:30 – 6:00 pm, Chicago River Ballroom Foyer

Welcome Reception: 6:00 – 8:00 pm, Atrium Dining Room (Main Floor)

#	Session Title	Time	Paper Title	Presenter		
			Monday, November 13	. 10001101		
	Meeting Room: Embassy Suites, Chicago River Ballroom					
	Opening and Welcome John Stevens	9:00 am	Welcome to Chicago and the RERTR-2017 International Meeting	Matthew Tirrell Deputy Laboratory Director for Science, Argonne National Laboratory		
1	Global Progress in HEU Minimization 9:15 au Chaired by John Stevens		HEU Minimization, An International Collaboration	Jessica Halse (DOE-NNSA)		
		9:15 am	HERACLES Overview	Yann Guinard (AREVA NP, CERCA)		
			Completion of Ghana's MNSR Conversion from HEU to LEU	Henry Cecil Odoi (GAEC)		
	10:00 am Coffee Break, Chicago River Ballroom Foyer					
		10:30 am	IAEA Activities in Support of HEU Minimization: 2017 Update	Frances Marshall (IAEA)		
	Global Progress in HEU Minimization (<i>Continued)</i>		First One-Year Operation of the WWR-K Research Reactor with LEU Fuel	Asset Shaimerdenov (KZ- INP)		
	Chaired by Chris Landers		Fuel Conversion Overview of MARIA Reactor (NCBJ Swierk – Poland)	Cyrille Rontard (AREVA- NP)		
			Current State of Conversion of the IGR Reactor and IVG.1M Reactor to LEU Fuel	Ildar Derbyshev (IAE-NNC)		
			12:00 pm Lunch Break			
			Role of the Regulatory Body in Ghana's MNSR Conversion from HEU to LEU	Rex Abrefah (NRA-G)		
2	MNSR and Other International Conversions to LEU Operation	1:30 pm	Status Report on NIRR-1 Conversion Activities: From LEU Feasibility Search To Conversion Proper	Sunday Jonah (CERT)		
	Chaired by James Morman		Neutronic and Safety Analysis of KUCA Wet Core using LEU Fuel	Hironobu Unesaki (KURRI)		
			The NIRR-1 HEU to LEU Conversion: The Value of Risk and Material Attractiveness	Stephen Dahunsi (INS)		
		3:00 pm Co	ffee Break, Chicago River Ballroom Foyer			
		3:30 pm	European Developments for Monolithic UMo Fuel: A Status Report	Harald Breitkreutz (FRM II)		
	Fuel Development and Qualification		Progress on U.S. High Performance Research Reactor LEU Fuel Element Designs	Erik Wilson (ANL)		
3	Chaired by Sven Van den		U.S. Progress in U-Mo Monolithic Fuel Qualification Swelling of UMo Dispersion Fuel Dependence	Barry Rabin (INL) Gerard Hofman (ANL)		
	Berghe		on Mo Content and Fission Rate Swelling Analysis and Verification of U-10Mo	Adam Robinson (INL)		
			Monolithic Fuel			
			5:30 pm Adjourn			
	RERTR-2017 Dinner and Activities – Pinstripes (Walking directions will be provided.) Dinner and Drinks 6:30 pm (Complimentary); Bowling and Bocce (Cash Bar) 8:30 to 10:30 pm					
			Tuesday, November 14			
Meeting Room: Embassy Suites, Chicago River Ballroom						
	Perspectives on HEU	8:00 am	Eliminating All HEU from Indonesia	Jessica Jagmin Brookins (DOE-NNSA)		
4	Removal and Operations		JAEA-LANL Experiments Supporting the Remove Program HEU Removal from Kazakhstan	George McKenzie IV (LANL) Stanley Moses (INL)		
	Chaired by Tiffany Blanchard- Case		Enhancing Readiness to Respond to Emerging	R. E. Agee (DOE-NNSA)		
			Threats: Exercise Corvina Loco	IN. L. AYEE (DUE-MINOA)		

			Research Reactor Spent Fuel Management: Growing Needs and Available Services	Vanessa Vo Van (AREVA- NC)
			Research Reactor Silicide Fuel Reprocessing at La Hague Plant	Jean-Francois Valery (AREVA-NC)
		10:00 am Co	offee Break, Chicago River Ballroom Foyer	
			Updates on the MIT Research Reactor (MITR) Conversion from Highly Enriched Uranium to Low Enriched Uranium Fuel	Lin-Wen Hu (MIT)
F	High Performance Reactor Conversions Chaired by Scott Ravenhill	10:30 am	Conversion Status of the University of Missouri- Columbia Research Reactor from Highly- Enriched to Low-Enriched Uranium Fuel	Les Foyto (UM-C)
5			Activities in Support of Conversion of the NBSR to LEU Fuel	Thomas Newton (NIST)
			ATR LEU Conversion Update	Thomas Maddock (INL)
			Continuing LEU Conversion Activities at the High Flux Isotope Reactor	David Renfro (ORNL)
			12:30 pm Lunch Break	
		1:30 pm	Status of Transient Reactor Test Facility (TREAT) Conversion Preparations	Doug Burns (INL)
6	Conversion Analysis (1)		An Overview of Analyses for the LEU Conversion of the Transient Reactor Test Facility (TREAT)	Heather Connaway (ANL)
	Chaired by Sunday Jonah		Transition Core Calculations for LEU Conversion of NBSR	David Diamond (BNL)
			Verification and Application of New Lateral Heat Conduction Capability in PLTEMP/ANL Code	Son Pham (ANL)
		3:00 pm Co	ffee Break, Chicago River Ballroom Foyer	
			USHPRR Fuel Fabrication Pillar Process Optimizations and Future Plans	Jared Wight (PNNL)
		3:30 pm	Progress on the Fabrication and Scale Up of TREAT Fuel Blocks	Douglas Burns (INL)
7	Fuel Development – Fabrication Technology		Irradiation of U-Mo/Mg Dispersion Fuel in the NRU Reactor	Ning Wang (CNL)
	Chaired by Natraj Iyer		Design Demonstration Elements (DDE) and Full- Size Multi-Plate Test of HFIR (FSP-HFIR) Scoping Study	Greg Housley (INL)
			Impacts of Pacific Northwest National Laboratory R&D in Support of the USHPRR Fuel Fabrication Pillar	Nick Lombardo (PNNL)
		Cotup F	5:30 pm Adjourn	
		Setup P	Posters, Chicago River Ballroom Foyer Assessment of the Total Effective Dose	Francis Otoo (GAEC)
		6:30 –	Equivalent for Hypothetical Accidental Release from the LEU GHARR-1 Core	
			Preparation on the Coated U-7Mo Mini-plates for HAMP-2(HANARO) Irradiation Test	Yong Jin Jeong (KAERI)
			Effect of Fission Rate on the Intergranular Gas Bubble Swelling - A Phase-Field Study Characterizations of the LEU UMo Powders	Zhi-Gang Mei (ANL) Florence Vanni (AREVA-
	Postor Session and		Used in EMPIRE Irradiation Experiment	NP)
	Poster Session and Reception		Analysis of Thermal Conductivity of U-Mo/AI and U-Mo/AI-5Si Dispersion Fuel	Tae Won Cho (UNIST)
8	Chicago River Ballroom Foyer	8:00 pm	Development Options for the TUM PVD Zr Application Process for Monolithic U-Mo Fuel	Bruno Baumeister (FRM II)
	Chaired by John Holland		Preliminary Manufacturing Studies of the KUCA LEU Conversion Fuels	Bertrand Stepnik (AREVA- NP)
			Inspection of Reactor Vessel and Pool for Ghana's MNSR after Core Removal	Henry Cecil Odoi (GAEC)
			Comparison of Moritz, Fabrega, Saha-Zuber, and Whittle-Forgan Criteria for OFI with 75 Experiments	M. Kalimullah (ANL)
			Preliminary Results of Design Calculation for Research Reactor Using VVR-KN Fuel with Nominal Power 10 MW	Kien-Cuong Nguyen (VINATOM)

			U-10Mo Conversion Burnup Benchmarking	Joseph Nielsen (INL)
			Activities for Full-Size LEU Fuel Plates Development of Temperature-Controlled	Yin-Bin Miao (ANL)
			Irradiation Station for Heavy-Ion Irradiations in ATLAS	
			Evaluation of Effect of Post-Fabrication Voids on the Performance of C2TWP Mini-Plates	Walid Mohamed (ANL)
			Ultrasound high resolution imaging of research reactor fuel cladding thickness	E. Le Clézio (CNRS)
			Investigation of High Energy Heavy Ion Irradiation of ALD Coated LEU U-Mo in a Dispersion Fuel Mini Plate	Kun Mo (ANL)
			The TN®MW, a New Optimized Cask for Research Reactors' Waste Management	Assia Talbi (AREVA-NC)
			Wednesday, November 15	
		Meeting Roor	n: Embassy Suites, Chicago River Ballroom U.S. Contributions to Manufacturing of the	Latif Yacout (ANL)
			EMPIRE UMo Irradiation Experiment	, <i>,</i> , ,
			Manufacturing of the SEMPER FIDELIS UMo Irradiation Experiment	Bertrand Stepnik (AREVA- NP)
9	Fuel Irradiation Testing and Characterization Chaired by Yeon Soo Kim	8:00 am	Update on the Progress and Plans for Large- Size Plate Irradiation Testing of Monolithic Fuels	Nicolas Woolstenhulme (INL)
			MiniPlate – 2 (MP–2) Experiment Conceptual Design for Irradiation in the Advanced Test Reactor	Irina Glagolenko (INL)
			Recent Results from the Microstructural Characterization of Irradiated LEU-Mo Fuels	Dennis Keiser (INL)
		10:00 am Co	offee Break, Chicago River Ballroom Foyer	
			Overview of PLTEMP/ANL Verification and Validation	M. Kalimullah (ANL)
10	Conversion Analysis (2)	10:30 am	Impact of Fuel Heterogeneity on Neutronic Characteristics of U-Mo Dispersion LEU Fuel	Hironobu Unesaki (KURRI)
10	Chaired by Erik Wilson	10.30 am	Generic Test Plate Assembly Flow Testing Update	Warren Jones (INL)
			Reduced Enrichment for Naval Propulsion Reactors	Alan Kuperman (UT)
			12:00 pm Lunch Break	
			Microstructure of Fresh As-Atomized and Annealed U-7Mo Particles: Grain Growth and Mo Homogenization	Hervé Palancher (CEA)
	Fuel Performance		Overview of Out-of-Pile Testing Activities to Support U-Mo Monolithic Fuel Qualification	James Cole (INL)
11	Measurement, Analysis and Modeling (1)	1:00 pm	Pore Pressure Estimation in Irradiated UMo	Daniele Salvato (SCK- CEN)
	Chaired by Adam Robinson		Fission-Induced Swelling of U-7Mo Fuel	Yeon Soo Kim (ANL)
			Summary of Properties and Fuel Performance Data for USHPRR U-10Mo LEU Conversion Analysis	Laura Jamison (ANL)
		3:00 pm Co	ffee Break, Chicago River Ballroom Foyer	
			Inter-Diffusion Layer Formation in U-Mo/AI Dispersion Fuel at High Power	Bei Ye (ANL)
	Fuel Performance		Analysis of the Effect of Interaction Layer on Thermo-Physical Properties of U-Mo/AI Dispersion Fuel	Tae Won Cho (UNIST)
12	Measurement, Analysis and Modeling (2)	3:30 pm	Deflection of Plates by Flow Channel Disparities in Research Reactor Fuel	Cezary Bojanowski (ANL)
	Chaired by Harald Breitkreutz		High-Resolution Ultrasonic Sensor for Channel Gap Thickness Measurement	Meriem Chrifi Alaoui (CNRS)
			PRIME code for Thermo-Mechanical Performance Analysis for U-Mo/AI Dispersion Fuel	Gwan Yoon Jeong (UNIST)
		John Stev	5:30 pm Summary and Closure vens (ANL) and Jeff Chamberlin (DOE-NNSA)	

Adjourn					
Thursday	Optional Technical Tour of Argonne National Laboratory Facilities (Bus transportation provided)				
November 16	Buses will depart the Embassy Suites Hotel at 8:00 am. Following the tour, one bus will stop at O'Hare (approx. 12:30 pm); the other will stop by Midway (approx. 12:30 pm) before returning to the Embassy Suites Hotel at 1:00 pm.				