

# RERTR 2009 — 31<sup>st</sup> INTERNATIONAL MEETING ON REDUCED ENRICHMENT FOR RESEARCH AND TEST REACTORS

November 1-5, 2009  
Kempinski Hotel Beijing Lufthansa Center  
Beijing, China



The U.S. Department of Energy / National Nuclear Security Administration's Office of Global Threat Reduction in cooperation with the China Atomic Energy Authority and International Atomic Energy Agency will host the "RERTR 2009 International Meeting on Reduced Enrichment for Research and Test Reactors." The meeting is organized by Argonne National Laboratory, China Institute of Atomic Energy and Idaho National Laboratory and will be held in Beijing, China from November 1-5, 2009. This will be the 31st annual meeting in a series on the same general subject regarding the conversion of reactors within the Global Threat Reduction Initiative (GTRI).

## Technical Program (Draft)

Last modified: Oct. 23, 2009

Please note that this version of the RERTR 2009 Technical Program:

- Is **still a draft** and may still undergo changes.

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The Meeting Organizers:



**RERTR 2009 — 31<sup>st</sup> International Meeting on Reduced Enrichment for Research and Test Reactors**  
Beijing, China, November 1-5, 2009

**PROGRAM**

**Sunday**

Registration: 3:00 – 6:00 p.m., Jade Ballroom Foyer  
Reception: 6:00 – 8:00 p.m., UChicago Argonne LLC and Battelle Energy Alliance  
Jade Ballroom A and Kalfeng Room

Session	Session Title	Time	Paper Title	Authors
<b>Monday</b>				
Meeting Room: Jade Ballroom B&C, Kempinski Hotel Beijing Lufthansa Center				
	<b>Welcome to China and RERTR-2009</b>	<b>9:00 AM</b>	A Welcome from the President of the China Institute of Atomic Energy	Zhao ZhiXiang
	<b>Opening Programmatic Remarks</b>		1 An Overview of the NNSA Global Threat Reduction Programs Goals for HEU Minimization 2 International Atomic Energy Agency Programs Supporting HEU Minimization	A. Bieniawski P. Adelfang
<b>10:00 - 10:15 am Coffee Break and Refreshments</b>				
<b>1</b>	<b>International Perspectives and Progress on HEU Minimization - Part 1</b> <i>Co-Chairs: A. Krass and E. Koonen</i>	<b>10:15 AM</b>	1 A Road Map for HEU Clean-Out Future Objectives of HEU Minimization – The Norwegian Perspective 2 Current Status of Reduced Enrichment Program for Research Reactors in Japan 3 HEU Minimization Programs Status and Plans at IAEA 4 The United States Research Reactor (FRR) Spent Nuclear Fuel (SNF) Acceptance Program - 2009 Update	O. Reistad, S. Hustveit, W. Beere H. Unesaki, T. Kitamura P. Adelfang C. Messick, J. Taylor, M. Niehus
<b>12:00 - 2:00 pm - Lunch Break</b>				
<b>2</b>	<b>International Perspectives and Progress on HEU Minimization - Part 2</b> <i>Co-chairs: N. Arkhangelskiy and R. Schultz</i>	<b>2:00 PM</b>	1 New Strategies for HEU Minimization 2 2009 Progress Report on RERTR Activities in Argentina 3 Core Conversion Scenario of the Budapest Research Reactor 4 Status of the U.S. Domestic Reactor Conversion Program 5 AREVA-CERCA A Committed Support to His Partners to Succeed GTRI Program	M. Pomper, C. Hansell, W. Potter S. Balart, P. Cristini, A. Gonzalez, R. González, J. Hermida, M. López, M. Mirandou, H. Taboada S. Tózsér, J. Gadó, I. Benkovic E. Woolstenhulme, D. Hewit C. Jarousse, N. Franck, P. Colomb, L. Halle, A. Kocher, J. Macias
<b>3:45 - 4:00 p.m. Coffee Break and Refreshments</b>				
<b>3</b>	<b>International Programs and Perspectives on Fuel Development</b> <i>Co-Chairs: D. Sears and C. K. Kim</i>	<b>4:00 PM</b>	1 US Progress in LEU Fuel Development 2 Current Status of the Development of High Density LEU Fuel for Russian Research Reactors 3 The Development Status of U-Mo Alloy Fuel in NPIC 4 The LEONIDAS and US Partnership for UMo Dispersion Fuel Qualification 5 Method of Utilizing the Stabilizing Effect of Silicon in U-Mo-Al Dispersion Fuel and Minimum Si Addition Required for Given Operating Conditions	D. Wachs A. Vatulin, I. Dobrikova, V. Suprun, G. Kulakov, A. Izhutov, E. Novoselov, V. Alexandrov, A. Ykovlev, V. Shishin C. Yin, J. Chen, C. Sun, Y. Liu E. Koonen, H. Guyon, P. Lemoine, C. Jarousse, D. Wachs, J. Stevens G. Hofman, Y-S. Kim, A. Robinson
<b>6:00 p.m. Adjourn</b>				
<b>Tuesday</b>				
Meeting Room: Jade Ballroom B&C, Kempinski Hotel Beijing Lufthansa Center				
<b>4</b>	<b>Conversion Experience and Planning</b> <i>Co-Chairs: J. Matos and Xia Pu</i>	<b>8:00 a.m.</b>	1 RA-6 Reactor Conversion and Neutronic Tests of the New Silicides Fuel Core 2 Conversion of the Oregon State University TRIGA Reactor from HEU Fuel to LEU Fuel 3 Plan of WWR-K Reactor Conversion to LEU Fuel 4 Irradiation Testing of the LEU Fuel in MARIA Research Reactor 5 Preliminary Results of Full Core Conversion from HEU to LEU of the Dalat Nuclear Research Reactor 6 Enrichment Reduction Possibility for MEPHI Research Reactor	H. Blaumann, J. Longhino, F. Sánchez, E. Lopasso, F. Lezczycynski, D. Ferraro, F. Brollo, C. Fernández, A. Gómez, P. Bellino S. Keller, S. Reese F. Arinkin, Sh. Gizatulini, S. Koltochnik, A. Tuleushev, P. Chakrov, L. Chekushina, P. Garner, N. Hanan, J. Roglans-Ribas G. Krzysztoszek and K. Pytel P. Lam, L. Vinh, H. Nghiem, N. Cuong, L. Vien V. Alferov, E. Kryuchkov, M. Shchurovskaya
<b>10:00 - 10:15 a.m. Coffee Break and Refreshments</b>				
<b>5</b>	<b>Fuel Development - Irradiation Testing</b> <i>Co-Chairs: D. Keiser and S. Balart</i>	<b>10:15 a.m.</b>	1 Results of the IRIS4 Irradiation in OSIRIS Reactor 2 The Status of LEU U-Mo Fuel Investigation in the MIR Reactor 3 Qualification of the BR2-EVITA Loop and Irradiation of the First JHR Lead Test Assembly 4 Irradiation Performance of U-Mo alloy Based 'Monolithic' Plate-type Fuel Design Selection 5 Effect of Burnup and Irradiation Temperature on Crystalline Phase Evolution in Al-U-Mo Dispersion Fuel	M. Ripert, F. Charollais, M. C. Anselmet, X. Tiratay, P. Lemoine A. Izhutov, V. Alexandrov, A. Novosyolov, V. Starkov, A. Sheldyakov, V. Shishin, V. Yakovlev, I. Dobrikova, A. Vatulin, V. Suprun, Ye. Kartashov, V. Lukichev P. Lemoine, M. Anselmet, E. Koonen, Ph. Benoit, Ph. Gouat, G. Miras, S. Brisson A. Robinson, G. Chang, D. Keiser, D. Wachs, and D. Porter D. Sears, B. Leitch, G. Edwards, I. Swainson, R. Rogge
<b>12:15 - 1:30 p.m. Lunch Break</b>				

Tuesday Program continues on next page ->

<b>6</b>	<b>Fuel Development Poster Session, Beijing Room</b> <i>Organizer: J. Holland</i>	<b>1:30 p.m.</b>	1	Manufacturing and Characterization of LEU Dispersion Miniplates Based on Hydrided Powders	L. Olivares, J. Marin, J. Lisboa and M. Barrera
			2	A Library of LEU Fuel Materials Properties for Research Reactors	T. Totev, G. Hofman J. Rest, Y. Kim, M. Looby, D. Burkes, D. Wachs, M. Meyer, S. Hayes
			3	Current Activities in the Out of Pile Investigations of the Interaction Between UMo and Al or Al Alloys	S. Balart, L. Kniznik, C. Komar Varela, P. Gargano, M. Mirandou, S. Aricó, P. Alonso, G. Rubiolo, L. Gribaudo
			4	Characterization of the Diffusion Layer in U-Mo/Zr-4 Diffusion Couple	J. Chen, C. Yin, C. Sun, Y. Liu
			5	Optimization of a Pressure-Sintering Formation Process for a Plate Fuel with Single-Layer - Arraying U-Mo Large Particles and a Preliminary Fabrication of Fuel Micro-Plate	C. Kim, S. Jang, H. Ryu, J. Park, K-H. Choi
			6	SEM and TEM Characterization of As-Fabricated U-Mo Dispersion Fuel Plates	D. Keiser, Jr., B. Yao, E. Perez, Y.H. Sohn
			7	Characterization of Interaction Layer in U-Mo/Al Diffusion-Couple	Y. Liu, C. Yin, C. Sun, J. Chen
			8	Implementation of RELAP5-3D System Model to Supplement the Design of the Hydro-Mechanical Fuel Test Facility	W. Marcum, A. Arnold, B. Woods, D. Wachs
			9	The Applications of Spatially Resolved Positron Annihilation Spectroscopy to RERTR Fuel Plates	M. Okuniewski, and D. Akers
			10	An Integrated Approach to the Mechanical Behavior	M. Okuniewski, D. Wachs, D. Burkes, R. Prabhakaran, F. Rice, P. Medvedev
			11	Interdiffusion in Diffusion Couples: U-Mo vs. Al-Si	E. Perez, B. Yao, Y. Sohn, D. Keiser
			12	U-Mo Plate Blistering	F. Rice, D. Wachs, A. Robinson, R. Lind
			13	Processes to Obtain Metallic Uranium from UF <sub>6</sub>	P. Rojas, H. Contreras, A. Garrao, F. Valdés
			14	Fabrication of Coated U-Mo Powder and the Effect of Si Content on the Interaction Layer Growth	H. Ryu, J. S. Park, J. Shim, Y. Lee, J. M. Park, C. Kim
			15	Irradiation Testing of Full-Size Dispersion and Monolithic Fuel Plates in the ATR	D. Wachs, D. Utterbeck, J. Wight, G. Chang, M. Lillo, G. Roth, J. Williams, S. Taylor, R. Ambrosek, M. Drigert, N. Kraft, A. Robinson
			16	Study on In-Pile Performance of Silicide Fuel Under Power Transient	K. Yanagisawa
			17	Recent Progress in Plasma Spaying, Plate Forming and HIP Can Development for Monolithic Fuel Plate Fabrication	D. Dombrowski, K. Hollis, D. Alexander, K. Clarke, P. Hochanadel, P. Burgardt, A. Duffield, M. Pena, J. Katz
			18	Corrosion of Aluminum Alloys in Water at Temperatures up to 100 °C	O. Golosov
			19	Advances in the Study of High Density Fuels in CNEA	M. López, R. González, A. González, H. Taboada
<b>2:45 - 3:00 p.m. Coffee Break and Refreshments</b>					
<b>7</b>	<b>Mo-99 Production Development</b> <i>Co-Chairs: R. Hamilton and K. Alldred</i>	<b>3:00 p.m.</b>	1	Installation and Commissioning a New LEU Based Mo-99 Plant in Australia	M. Druce
			2	Overview of Argonne Progress in Developing LEU-Based Processes for the Production of Mo-99	G. Vandegrift, D. Stepinski, A. Ziegler, E. Krahn, J. Fortner, K. Quigley, C. Mertz, S. Chmerisov, J. Jerden Jr., A. Hebden, A. Guelis, and A. Bakel
			3	On a New Way of Large-Scale Mo-99 Production in Molten Salt Fluoride Fuel	D. Chuvilin, V. Zagryadskiy
			4	Update on Operational Experience of Zirconium Molybdate – Mo-99 Gel Generator Production in India	S. Sarkar, C. Kothalkar, P. Naskar, P. Saraswathy, A.Dey, A. Kohli, V.Meera, V. Venugopal
			5	Fostering Additional Sources of Molybdenum-99 Production for Supporting Nuclear Medicine Services and Progress in the IAEA CRP on Molybdenum Production from LEU or Neutron Activation	N. Ramamoorthy, I. Goldman, P. Adelfang
<b>5:30 p.m. Adjourn</b>					

Wednesday Program follows on next page ->

**Wednesday — Parallel Sessions**  
**Meeting Room 1: Jade Ballroom B&C, Sessions 8, 9, 10**  
**Meeting Room 2: Beijing Room, Sessions 11, 12, 13, 14**

Wednesday Meeting Room 1: Jade Ballroom B&C, Kempinski Hotel Beijing Lufthansa Center			
<b>8</b>	<b>US High Performance Reactor Conversion</b> <i>Co-Chairs: D. Hewit, J. Stevens</i>	<b>8:00 a.m.</b>	<ol style="list-style-type: none"> <li>1 Completion of Feasibility Studies on Using LEU Fuel in MIT Reactor T.H. Newton, Jr., L-W Hu, G. E. Kohse, E. E. Pilat, B. Forget, P. K. Romano, S. Wong, Y. Wang</li> <li>2 Summary of the University of Missouri Research Reactor HEU to LEU Conversion Feasibility Study J. McKibben, K. Kutikkad, L. Foyt, B. Dionne, E. Feldman, J. Stevens, J. Stillman</li> <li>3 LEU Conversion Activities at the High Flux Isotope Reactor-Simplifying the Foil Design - Preparing the Reactor R. Primm, III, G. Ilas, J. Sease, J. Miller, T. Guida</li> <li>4 Conversion of the NIST Research Reactor-Maintaining Core Geometry to Avoid a Startup Core R. Williams, W. Richards, S. O'Kelly, J. Michael Rowe, D. Diamond, A. Hanson, L-Y. Cheng, A. Cuadra</li> <li>5 ATR PDQ and MCWO Fuel Burnup Analysis Codes Evaluation G. Chang, P. Roth, M. Lillo</li> </ol>
<b>10:00 - 10:15 a.m. Coffee Break and Refreshments</b>			
<b>9</b>	<b>Fuel Development - Fabrication</b> <i>Co-Chairs: L. Olivares and J. Gan</i>	<b>10:15 a.m.</b>	<ol style="list-style-type: none"> <li>1 Fuel Fabrication Capability (FFC) Project D. Dombrowski</li> <li>2 Monolithic Fuel Fabrication Process Development at the Idaho National Laboratory G. Moore, F. Rice, N. Woolstenhulme, J-F. Jue, B. Park, S. Steffler, N. Hallinan, M. Chapple</li> <li>3 Update on Uranium-Molybdenum Fuel Foil Fabrication Development Activities at the Y-12 National Security Complex A. DeMint, J. Gooch, H. Longmire, T. Andes</li> <li>4 Pyrochemical Recovery of Uranium from Monolithic U-10Mo Fuel Scrap J. Figueroa, M. Williamson, A. Bakel, and G. Vandegrift</li> </ol>
<b>12:15 - 1:30 p.m. Lunch Break</b>			
<b>Poster Session 2, Beijing Room, 1:30 - 2:45 p.m.</b>			
<b>2:45 - 3:00 p.m. Coffee Break and Refreshments</b>			
<b>10</b>	<b>HEU Minimization in Sub-Critical Facilities</b> <i>Co-Chairs: Y. Mahlers and M. Baryshnikov</i>	<b>3:00 p.m.</b>	<ol style="list-style-type: none"> <li>1 Yalina-Booster Facility Performance with Low Enriched Uranium Y. Gohar, A. Talamo, I. Bolshinsky, H. Kiyavitskaya</li> <li>2 Neutron Source on the Base of Sub-Critical Assembly Driven by Linear Accelerator I. Karnaukhov, A. Zelinsky, I. Neklyudov, V. Krasnorutziy</li> <li>3 The Sub Critical Core of IPEN-MB-01 Driven by a Neutron Source in The Framework of the IAEA Collaborative Work on Low Enrichment Uranium(LEU) Fuel Utilization in Accelerator Driven Sub Assembly System J. Maiorino, T. Carluccio</li> <li>4 Fuel Cycle Analyses of the KIPT Neutron Source Facility With Low Enriched Uranium Fuel Z. Zhong and Y. Gohar</li> </ol>
<b>5:00 p.m. Adjourn 6:00 – 9:00 p.m. Reception — Jade Ballroom A and Kafeng Room, Sponsored by The Babcock &amp; Wilcox Company</b>			
Wednesday Meeting Room 2: Beijing Room, Kempinski Hotel Beijing Lufthansa Center			
<b>11</b>	<b>Minimization, Transportation and Fuel Disposition</b> <i>Co-Chairs: C. Messick and G. Gruber</i>	<b>8:00 a.m.</b>	<ol style="list-style-type: none"> <li>1 Experience in Certification of Transportations Under RRRFR Program A. Buchelnikov</li> <li>2 Thermal Decay Heat of High Enriched Uranium Spent Nuclear Fuel of TAJOURA Nuclear Research Reactor F. Bsebsu</li> <li>3 Approaches and Methods to Ensure Safety of International Transport of Russian Research Reactor SNF S. Komarov, M. Baryshnikov, B. Kanashov and A. Smirnov, A. Buchelnikov</li> <li>4 Shipment of Spent Nuclear Fuel (SNF) From Badan Tenaga Nuklir National Reactor in Serpong-tangrang Indonesia to the Savannah River Site in Aiken SC E. Parker, C. Messick, I. Suryantoro, T. Andes, M. Valenzano</li> <li>5 Loading and Utilization of NAC-LWT at Research and Test Reactor Facilities J. Adam</li> </ol>
<b>10:00 - 10:15 a.m. Coffee Break and Refreshments</b>			
<b>12</b>	<b>Mo-99 Production - Technology Development</b> <i>Co-Chairs: F. Wijtsma and Luo Zhifu</i>	<b>10:15 a.m.</b>	<ol style="list-style-type: none"> <li>1 Engineering of LEU-Foil Based Mo-99 Target for High Volume Production G. Solbrekken, K. Turner, C. Allen</li> <li>2 Alternative Methods for Digesting Irradiated LEU Foil Targets to Produce Mo-99 in Alkaline Media A. Guelis, A. Bakel, J. Jerden, K. Quigley and G. Vandegrift, M. Precek</li> <li>3 A Simple, Inexpensive and User-friendly Technique for Separation of Tc-99m from Mo-99 Produced by Neutron Activation of Mo-98 via the Mo-98(n,g)Mo-99 S. Chattopadhyay, S. Saha Das and L. Barua</li> <li>4 Modeling of Excessive Power Accidents for a Proposed Research Reactor in Core Fission Mo-99 Production M. Gaheen, M. Shaat</li> <li>5 An Evaluation of Mo-99 Target Waste Proliferation Risks F. Dalnoki-Veress, C. Hansell, M. Pomper</li> </ol>
<b>12:15 - 1:30 p.m. Lunch Break</b>			
<b>13</b>	<b>HEU Minimization Poster Session, Beijing Room</b> <i>Organizer: J. Holland</i>	<b>1:30 p.m.</b>	<ol style="list-style-type: none"> <li>1 Dissolution of U-10Mo Fuel for Aqueous Processing of Scrap Metal A. Ziegler, L. Maggos, D. Stepinski, A. Bakel, and G. Vandegrift</li> <li>2 Combating Illicit Trafficking of Nuclear Materials in Kenya S. Kiti, R. Kinyua</li> <li>3 Realization of Mixed Core Configurations in Core Conversion for the DALAT Nuclear Research Reactor P. Lam, N. Dien, L. Vinh, H. Nghiem, L.Vien, N. Cuong</li> <li>4 Measurements of Composition and Rates of Gas Generated in an Aqueous Homogeneous S. Chemerisov, A. Guelis, A. Bakel, and G. Vandegrift</li> <li>5 Sorbent Selection for Mo-99 Recovery from Irradiated Aqueous Homogeneous Reactor Fuel Solutions D. Stepinski, A. Ziegler, J. Jerden, J. Fortner, K. Quigley, C. Mertz, A. Guelis, S. Chemerisov, A. Bakel and G. Vandegrift</li> <li>6 RoMol-99 – An Innovative Small-Scale LEU-Based Mo-99 Production Process G-J. Beyer, R. Muenze, D. Novotny, M. Ahmad, M. Jehangir</li> </ol>

Wednesday Program continues on next page ->

			7 Optimization and Scale-up of a Nitric Acid Dissolver System for LEU-Foil Targets for Mo-99 Production	J. Jerden Jr., A. Hebden, A. Bakel and G. Vandegriff
			8 LEU Fuel Burnable Absorber Evaluation and Recommendations	T. Totev
			9 The Role of HEU Minimization in Furthering Nonproliferation and Disarmament	C. Hansell
			10 Safety Analysis for the First Loading of LEU Fuel into the WWR-M Research Reactor in Ukraine	Y. Mahlers
			11 Preliminary Thermal-Hydraulic Analysis of Testing LEU Lead Test Assemblies in WWR-K Reactor	F. Arinkin, L. Chekushina, Sh. Gizatulina, S. Koltochnik, A. Shaimerdenov, and P. Chakrov, P. Garner, N. Hanan
			12 New Friction Factor Correlation for the MIT Reactor Fuel Elements	S. Wong, L-W. Hu, M. Kazimi
			13 Flow-Induced Deformation of Foil-Based Fuel Plates	G. Solbrekken, J. Kennedy
			14 Program for Domestic Production of Mo-99 in the United States	G. Dale, J. Ireland, N. Pope
			15 Comparison of Pressure Drop Measurements and Calculations for HEU and LEU Fuel Assemblies for MARIA Reactor	P. Garner, N. Hanan, W. Mielezsczenko
			16 Effects of Fuel Plate and Assembly Position Tolerances on Steady-State Thermal Performance of the University of Missouri Research Reactor (MURR) LEU Core	E. Feldman, B. Dionne, J. Stevens, J. Stillman
<b>2:45 - 3:00 p.m. Coffee Break and Refreshments</b>				
<b>14</b>	<b>Fuel Performance - Part 1</b> <i>Co-Chairs: R. Finlay and G. Hofman</i>	<b>3:00 p.m.</b>	1 Microstructure of RERTR DU-Alloys Irradiated with Krypton Ions	J. Gan, D. Keiser, D. Wachs, B. Miller, T. Allen, M. Kirk, J. Rest
			2 Transmission Electron Microscopy Investigation of Irradiated Atomised and Ground U(MO) Dispersion Fuel, With or Without Si Added to the Matrix	W. Van Renterghem, A. Leenaers, S. Van Den Bergh, M.-C. Anselmet, F. Charollais, P. Lemoine, W. Petry
			3 SEM Characterization of an Irradiated Dispersion Fuel Plate with U-10 Mo Particles and 6061 AL Matrix	D. Keiser, J. Jue, A. Robinson, P. Medvedev, M. Finlay
			4 Microstructural Analysis of Ground UMo Fuel With and Without Si Added to the Matrix, Irradiated to High Burn Up	A. Leenaers, S. Van de Bergh, F. Charollais, P. Lemoine, C. Jarousse, A. Röhrmoser, W. Petry
			5 Optimization of the Si Content in UMO-Al Si Fuel Plates	R. Jungwirth, H. Breitzkreutz, W. Petry, A. Röhrmoser, W. Schmid, H. Palancher, C. Jarousse
			6 In-Situ High Temperature Neutron Diffraction Study of Phase Evolution in U-7Wt.% Mo/Al and U-7Wt.% Mo/Al-5Wt.% Si Fuel Rods	J. Yang, H. Ryu and J. Park
<b>5:30 p.m. Adjourn</b> <b>6:00 – 8:00 p.m. Reception — Jade Ballroom A and Kalfeng Room, Sponsored by The Babcock &amp; Wilcox Company</b>				
<b>Thursday</b>				
<b>Meeting Room: Jade Ballroom B&amp;C, Kempinski Hotel Beijing Lufthansa Center</b>				
<b>15</b>	<b>Safety Analysis</b> <i>Co-Chairs: A. Adams and J. Marques</i>	<b>8:00 a.m.</b>	1 HEU/LEU Conversion of TRIGA Reactors	A. Veca, J. Bolin, C. Ellis, J. Crozier, L. Halle
			2 Loss of Coolant Analysis for the Oregon State University Triga Reactor	F.E. Dunn, J.E. Matos
			3 Oregon State TRIGA Reactor Conversion Analysis Highlights	S. Keller, W. Marcum, B. Woods, S. Reese, T. Palmer, M. Hartman, J. Matos, J. Stevens, F. Dunn, E. Feldman
			4 Analysis of a Hypothetical Partial Loss-of-Coolant Accident in the University of Wisconsin TRIGA-Fueled Research Reactor	E. Feldman, T. Sofu, J. Matos
			5 Evaluation of the Thermal-Hydraulics Operating Limits of the HEU-LEU Transition Cores for the MITR	Y. Wang, L-W. Hu
<b>10:00 - 10:15 a.m. Coffee Break and Refreshments</b>				
<b>16</b>	<b>Fuel Performance - Part 2</b> <i>Co-Chairs: S. Van den Berghe and A. Vatulin</i>	<b>10:15 a.m.</b>	1 Calculation of Uranium Molybdenum Dispersion Fuel Swelling by Matrix Creep Method	X. Liu, T. iecheng Lu, Z. Xing, D. Qian, Y. Deng, Y. Liu
			2 Analysis of Fission Gas Bubbles and Microstructures of Irradiated U-Mo Fuel	Y-S. Kim, G. Hofman, J. Rest, Y-S. Choo, A. Robinson
			3 MTR Plates 3D Mechanical Modeling with MAIA	V. Marelle, J.M. Gatt
			4 Effect of In-Pile Degredation of Thermal Conductivity on the Maximum Temperature of the Plate-Type U-Mo Dispersion Fuels	P. Medvedev
			5 Kinetics of the Interaction Layer Formation Between Gamma-UMo and Aluminum by Thermal and Gravimetric Analysis	F. Oliveira, E. Carvalho, H. Riella
<b>12:15 - 1:30 p.m. Lunch Break</b>				
<b>17</b>	<b>Conversion Analysis and Methods</b> <i>Co-Chairs: C. McKibben and H. Blaumann</i>	<b>1:30 p.m.</b>	1 IRT-SOFIA Conversion Feasibility Study	T. Apostolov, S. Belousov, N. Hanan, J. Matos
			2 CERCA Fuel Assembly Testing in MARIA Reactor-Safety Analysis Summary and Testing Program Scope	K. Pytel, W. Mielezsczenko, J. Lechniak, A. Moldysz, K. Andrzejewski, T. Kulikowska, Z. Marcinkowska, P. Garner, N. Hanan
			3 Conversion of WWR-SM Reactor INP AS Republic of Uzbekistan	U. Salikhbaev, A. Dosimbaev, S. Baytelesov, F. Kungurov
			4 Implementation and Verification of Mishima's CHF Data at Low Flow and Atmospheric Pressure in the PLTEMP/ANL Code	M. Kalimullah, N. Hanan, E. Feldman, and A. Olson
<b>3:00 - 3:15 p.m. Coffee Break and Refreshments</b>				
			5 Detailed BR2 Steady-State and Decay Power Distributions During 1963 A/400/1 Flow Test	B. Dionne, C. Tzanos, J. Matos
			6 Application of PARET/V7.5 for the Transient Analysis of the BR2 Reactor: Reactivity Insertion Transients with Automatic Power Reduction by the Control Rods	S. Kalcheva, E. Koonen, A. Olson, J. Matos
			7 Characteristics of the WWR-K Test Core and the LEU LTAs to be Placed in the Central Experimental Beryllium Device	F. Arinkin, P. Chakrov, L. Chekushina, Sh. Gizatulina, S. Koltochnik, N. Hanan and P. Garner
<b>18</b>	<b>Round Table, Summary and Closure</b> <i>Co-Chairs: J. Rojans and Yong Chun Gao</i>	<b>4:30 p.m.</b>		
<b>5:30 p.m. Adjourn</b>				