



Programme Committee

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István Vidovszky, AEKI, Hungary
Nikolay Arkhangelskiy, ROSATOM, Russia
Vlastimil Juricek, NRI REZ, Czech Republic



Sunday 30 March 2014

17:00 - 19:00 Pre-registration

18:00 – 19:00 Welcome Drink

Monday 31 March 2014

Mo 8.30 - 9.10 Opening Session

Chair: E. Koonen, SCK•CEN, Belgium

Welcome Address

Dr. Marko Cepin, President of the Nuclear Society of Slovenia and ENS Vice-President

Opening Key-Note Speech

Dr. Luka Snoj, head of TRIGA reactor and head of Reactor physics division of Jozef Stefan Institute, Slovenia

Mo 9.10 - 10.50 International Topics

Chair: E. Koonen, SCK•CEN, Belgium; Co-chair: L.Snoj, Jozef Stefan Institute, Slovenia

RRFM2014-A0020	ARE RADIOISOTOPE SHORTAGES A THING OF THE PAST?: MOLYBDENUM-99/TECHNETIUM-99M SUPPLY AND DEMAND FORECAST, 2015-2020	Peykov, P. (1); Cameron R. (1) 1 - OECD - Nuclear Energy Agency (NEA), France
RRFM2014-A0062	2014 PROGRESS REPORT ON HEU MINIMIZATION ACTIVITIES IN ARGENTINA	Cristini, P. (1); De Lio, L. (1); Falcon, M. (1); Lopez, M. (1); Gonzalez, A. G. (1); Picchetti, B. (1); Taboada, H. (1); Vaccaro, J. (1) 1 - COMISION NACIONAL DE ENERGIA ATOMICA, Argentina
RRFM2014-A0077	OVERVIEW OF THE INTERNATIONAL GLOBAL THREAT REDUCTION PROGRAM	Staples, P. (1) 1 - Department of Energy/National Nuclear Security Administration , United States
RRFM2014-A0087	STATUS OF U-MO FUEL DEVELOPMENT FOR RESEARCH AND TEST REACTORS IN KAERI	Park, J. M. (1); Jeong, Y. J. (1); Lee, K. H. (1); Lee, Y. S. (1); Yim, J. S. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0078	OVERVIEW OF THE GLOBAL THREAT REDUCTION'S REACTOR CONVERSION PROGRAM	Landers, C. (1) 1 - Department of Energy/National Nuclear Security Administration , United States

10:50 – 11:20 Coffee break



**Mo 11.20 - 13.00 Parallel Session:
LEU Fuel development & qualification I**

Chair: S.Van den Berghe, SCK•CEN, Belgium

RRFM2014-A0034	ISOTHERMAL TRANSFORMATION KINETICS IN URANIUM MOLYBDENUM ALLOYS	Säubert, S. (1); Jungwirth, R. (1); Zweifel, T. (1); Chiang, H.-Y. (1); Breitskreutz, H. (1); Petry, W. (1) 1 - Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II), Germany
RRFM2014-A0043	UMO POWDER ATOMIZED / HYDRIDED.COMPARISON BASED ON INTERACTION ANNEALING AND OUT-OF-PILE SWELLING TEST CONDUCTED ON DISPERSION TYPE MINIPLATES	Olivares, L. (1); Lisboa, J. (1); Marin, J. (1); Chavez, J. C. (1); Barrera, M. (1) 1 - Chilean Commission for Nuclear Energy, Chile
RRFM2014-A0048	THE FEASIBILITY OF MG AS THE MATRIX MATERIAL OF UMO FUELS:TEM AND μ -XRD STUDIES	Chiang, H.-Y. (1); Petry, W. (1); Döblinger, M. (2); Park, S. (3) 1 - Forschungsneutronenquelle Heinz Maier-Leibnitz (FRM II) Technische Universität München, Germany 2 - Department Chemie Ludwig-Maximilians-Universität München, Germany 3 - Sektion Kristallographie Ludwig-Maximilians-Universität München, Germany
RRFM2014-A0068	NEW ORDERED PHASE IN THE QUASI-BINARY UAL ₃ -USI ₃ SYSTEM	Rafailov, G. (1); Dahan, I. (1); Meshi, L. (2) 1 - Materials Department, Nuclear Research Center of Negev (NRCN), Israel 2 - Department of Materials Engineering, Ben-Gurion University of the Negev, Israel
RRFM2014-A0118	THE RESEARCH REACTOR CONVERSION TECHNOLOGY PROGRAM ROADMAP	Iyer, N. (1) 1 - Department of Energy/National Nuclear Security Administration , United States

**Mo 11.20 - 13.00 Parallel Session:
Utilisation of Research Reactors**

Chair: A.Borio di Tigliole, IAEA

RRFM2014-A0017	PRODUCTION OF RADIOISOTOPES FOR MEDICAL USE ON THE JULES HOROWITZ REACTOR	Antony, M. (1); Coulon, J.-P. (1); Gay, S. (1); Martin, G. (1) 1 - CEA, France
RRFM2014-A0025	ADVANCED REACTOR PHYSISCS EXERCISES AT THE TRIGA MARK II REACTOR	Snoj, L. (1); Rupnik, S. (1); Jazbec, A. (1) 1 - Jozef Stefan Institute, Slovenia
RRFM2014-A0035	"RAPID TURNAROUND EXPERIMENTS" AT THE ADVANCED TEST REACTOR NATIONAL SCIENTIFIC USER FACILITY	Marshall, F. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0045	NUCLEAR RENAISSANCE AT THE UNIVERSITY OF CALIFORNIA IRVINE TRIGA REACTOR	Shaka, A. (1); Miller, G. (1); Nilsson, M. (2) 1 - Department of Chemistry, University of California Irvine, United States 2 - Department of Chemical Engineering and Materials, University of California Irvine, United States



RRFM2014-A0054	MEASUREMENTS OF THE IN-CORE NEUTRON FLUX DISTRIBUTION AND ENERGY SPECTRUM AT THE TRIGA MARK II REACTOR OF THE VIENNA UNIVERSITY OF TECHNOLOGY/ATOMINSTITUT	Cagnazzo, M. (1); Bock, H. (1); Raith, C. (1); Stummer, T. (1); Villa, M. (1) 1 - Vienna University of Technology / Atominstitut, Austria
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13:00 – 14:00 Lunch

Mo 14.00 - 16.00 Parallel Session: LEU fuel development & qualification II

Chair: D.Wachs, Idaho National Laboratory, United States

RRFM2014-A0050	IRRADIATION OF SI AND ZRN COATED U(MO) DISPERSION PLATES AT HIGH POWER IN BR2 : PIE RESULTS ON THE SELENIUM PLATES	Leenaers, A. (1); Van den Berghe, S. (1); Detavernier, C. (2) 1 - SCK•CEN, Belgium 2 - Ghent University, Belgium
RRFM2014-A0069	MODELING OF U-MO FUEL SWELLING TO HIGH BURNUP	Ye, B. (1); Kim, Y. S. (1); Rest, J. (1); Hofman, G. (1) 1 - Argonne National Laboratory, United States
RRFM2014-A0070	SEM CHARACTERIZATION OF THE HIGH BURN-UP MICROSTRUCTURE OF U-7MO ALLOY	Keiser, D. (1); Jue, J.-F. (1); Gan, J. (1); Miller, B. (1); Robinson, A. (1); Medvedev, P. (1); Wachs, D. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0093	STABILITY STUDY OF THE RERTR FUEL MICROSTRUCTURE	Gan, J. (1); Keiser, D. (1); Miller, B. (1); Wachs, D. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0094	POST IRRADIATION EXAMINATIONS OF THE RERTR-12 EXPERIMENT	Robinson, A. (1); Rice, F. (1); Meyer, M. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0095	U.S. PROGRESS IN THE DEVELOPMENT OF U-MO MONOLITHIC RESEARCH REACTOR FUELS	Meyer, M. (1); Rabin, B. (1); Glagolenko, I. (1); Medvedev, P. (1); Woolstenhulme, N. (1); Moore, G. (1); Robinson, A. (1); Keiser, D. (1); Wachs, D. (1); Hofman, G. (2) 1 - Idaho National Laboratory, United States 2 - Argonne National Laboratory, United States

Mo 14.00 - 16.00 Parallel Session: Utilisation of Research Reactors II

Chair: H. Böck, Atominstitut, Austria

RRFM2014-A0038	CAPABILITIES AND CAPACITIES OF RESEARCH REACTORS TOWARDS DEPLOYMENT OF INNOVATIVE NUCLEAR ENERGY SYSTEMS AND TECHNOLOGIES. IAEA CATALOGUE UNDER DEVELOPMENT.	Khoroshev, M. (1); Bradley, E. (1); Borio di Tigliole, A. (1) 1 - IAEA, Austria
RRFM2014-A0061	THE IAEA ACTIVITIES IN SUPPORT OF NEUTRON BEAM APPLICATIONS	Peld, N. (1); Ridikas, D. (1); Desai, T. (1) 1 - IAEA, Austria

RRFM2014-A0072	THERMOHYDRAULIC DESIGN OF THE LORELEI EXPERIMENTAL SETUP IN JHR	Katz, M. (1); Gitelman, D. (2); Shenha, H. (2); Weiss, Y. (2); Sasson, A. (2); Tarabelli, D. (3); Ferry, L. (3); Gonnier, C. (3) 1 - NRCN, Israel 2 - ROTEM Ind., Israel 3 - French Atomic Energy Commission (CEA) - Cadarache Centre, France
RRFM2014-A0122	PRIMARILY POSITIVE PERCEPTIONS: A SURVEY OF RESEARCH REACTOR OPERATORS ON THE BENEFITS AND PITFALLS OF CONVERTING FROM HEU TO LEU	Dalnoki-Veress, J. (. (1) 1 - James Martin Center for Nonproliferation Studies (CNS), Monterey Institute of International Studies, United States
RRFM2014-A0140	EXPERIMENTAL PROGRAMS OUTLOOKS IN MTRS FOR SUPPORTING DEVELOPMENT OF SODIUM COOLED FAST REACTOR FUELS AND MATERIALS	Phélip, M. (1); Le Flem, M. (2); Parrat, D. (1); Pelletier, M. (1); Jaecki, P. (3) 1 - Commissariat à l'énergie atomique et aux énergies alternatives, Nuclear Energy Division, Fuel Study Department, France 2 - Commissariat à l'énergie atomique et aux énergies alternatives, Nuclear Energy Division, Nuclear Material Department, France 3 - Commissariat à l'énergie atomique et aux énergies alternatives, Nuclear Energy Division, Reactor Study Department, RJH, France

16:00 – 16:20 Coffee break

Mo 16.20 -18.20 Parallel Session: LEU fuel development & qualification III

Chair: H.Breitkreutz, Technical University Munich, Germany

RRFM2014-A0030	IN-PILE IRRADIATED U-MO/AL(SI) DISPERSED NUCLEAR FUEL BEHAVIOUR UNDER THERMAL ANNEALING: FISSION GAS RELEASE AND MICROSTRUCTURE EVOLUTIONS	Zweifel, T. (1); Valot, C. (1); Pontillon, Y. (1); Lamontagne, J. (1); Blay, T. (1); Petry, W. (2); Palancher, H. (1) 1 - CEA, DEN, DEC, France 2 - Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II), Germany
RRFM2014-A0091	TEM CHARACTERIZATION OF HIGH BURN-UP MICROSTRUCTURE OF U-7MO ALLOY	Gan, J. (1); Miller, B. (1); Keiser, D. (1); Robinson, A. (1); Madden, J. (1); Medvedev, P. (1); Wachs, D. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0092	CHARACTERIZATION OF FUEL-CLADDING BOND STRENGTH USING LASER SHOCK	Smith, J. (1); Cottle, D. (1); Rabin, B. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0101	SHUTDOWN-INDUCED TENSILE STRESS IN MONOLITHIC MINIPLATES AS A POSSIBLE CAUSE OF PLATE PILLOWING AT VERY HIGH BURNUP.	Medvedev, P. (1); Ozaltun, H. (1); Rabin, B. (1); Robinson, A. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0104	POST-IRRADIATION ANALYSIS OF U-SILICIDE-COATED OR U-NITRIDE-COATED U-MO DISPERSION FUEL IN AL TESTED IN KOMO-5	Kim, Y. S. (1); Park, J. M. (2); Lee, K. H. (2); Yoo, B. O. (2); Ryu, H. J. (3) 1 - ANL, United States 2 - KAERI, Republic of Korea 3 - KAIST, Republic of Korea



RRFM2014-A0105	SWELLING OF U-MO/AL-SI DISPERSION FUEL UNDER IRRADIATION – NON-DESTRUCTIVE ANALYSES OF THE AFIP-1 PLATE	Wachs, D. (1); Robinson, A. (1); Lillo, M. (1); Kraft, N. (1); Hallman, L. (1) 1 - Idaho National Laboratory, United States
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**Mo 16.20 - 18.20 Parallel Session:
New Research Reactor Projects**

Chair: A.Borio di Tigliole, IAEA

RRFM2014-A0004	JULES HOROWITZ REACTOR: ORGANISATION FOR THE PREPARATION OF THE COMMISSIONING PHASE AND NORMAL OPERATION	Estrade, J. (1); Fabre, J.-L. (1); Marcille, O. (1); Bignan, G. (1); Blandin, C. (1) 1 - CEA, France
RRFM2014-A0040	RESEARCH REACTOR PROJECTS IN TUNISIA : CASE OF THE TUNISIAN SUB-CRITICAL ASSEMBLY PROJECT	Ben-Ismaïl, A. (1); Dridi, W. (1); Ben-Abdallah, M. (1); Nasri, M.-A. (1); Kahlaoui, N. (1); Reguigui, N. (1) 1 - National Center for Nuclear Sciences and Technology, Tunisia
RRFM2014-A0066	ADVANCE IN THE RA-10 REACTOR PROJECT	Blaumann, H. (1); Vertullo, A. (1) 1 - National Atomic Energy Commission, Argentina
RRFM2014-A0111	PROGRESS ON KJRR PROJECT	Wu, S. (1); Song, J. S. (1); Ha, J. J. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0120	RMB: THE NEW BRAZILIAN MULTIPURPOSE RESEARCH REACTOR	Soares, A. (1); Perrotta, J. (1) 1 - Comissão Nacional de Energia Nuclear, Brazil

Tuesday 1 April 2014

**Tu 8.50 - 10.30 Parallel Session:
LEU fuel development & qualification IV**

Chair: P.Adelfang, IAEA

RRFM2014-A0042	FABRICATION OF U-MO DISPERSION FUEL MINI-PLATE FOR HANARO IRRADIATION TEST IN KAERI	Jeong, Y. J. (1); Park, J. M. (1); Lee, K. H. (1); Lee, Y. S. (1); Cho, M. S. (1); Yang, S. W. (1); Yim, J. S. (1); Tahk, Y. W. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0064	UMO MONOLITHIC FUEL DEVELOPMENT PROGRESS IN AREVA-CERCA	Stepnik, B. (1); Grasse, M. (1); Coullomb, C. (1); Jarousse, C. (1); Geslin, D. (1); Petry, W. (2); Jungwirth, R. (2); Breikreutz, H. (2); Röhrmoser, A. (2); Huber, T. (2); Wachs, D. (3) 1 - AREVA-CERCA, France 2 - TUM-FRM2, Germany 3 - INL, United States

RRFM2014-A0067	ADVANCES IN GTRI FUEL FABRICATION CAPABILITY TECHNOLOGY	Burkes, D. (1); Paxton, D. (1); Maple, S. (1); Senor, D. (1); Longmire, H. (2); Dombrowski, D. (3); Cole, L. (4) 1 - Pacific Northwest National Laboratory, United States 2 - Y-12 National Security Complex, United States 3 - Los Alamos National Laboratory, United States 4 - Idaho National Laboratory, United States
RRFM2014-A0103	FRM II / CERCA UMO ATOMIZER PROJECT PROGRESS	Schenk, R. (1); Petry, W. (1); Stepnik, B. (2); Grasse, M. (2); Bourdat, G. (2); Moyroud, C. (2); Coullomb, C. (2); Jarousse, C. (2) 1 - FRM II, Technische Universität München (TUM), Germany 2 - AREVA CERCA, France
RRFM2014-A0109	Y-12 NATIONAL SECURITY COMPLEX COUPON FABRICATION	Gambrell, M. (1); Langham, C. (1); Moore, A. (1); Gooch, J. (1); Demint, A. (1) 1 - Y-12 National Security Complex, United States

**Tu 8.50 - 10.30 Parallel Session:
Innovative Methods in Research Reactor Analysis and Design I**

Chair: S. Curr, Rolls Royce, United Kingdom

RRFM2014-A0019	ANALYSIS OF SMALL RESEARCH REACTOR WITH UMO FUEL USING MCNPX AND MULTI-GROUP NODAL DIFFUSION METHOD	Jaradat, M. (1); Alkhafaji, S. (1); Park, C. J. (2); Lee, B. (2) 1 - Jordan Atomic Energy Commission, Jordan 2 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0031	CALCULATION OF KINETICS PARAMETERS OF THE JSI TRIGA REACTOR WITH TRIPOLI 4 AND MCNP	Henry, R. (1); Snoj, L. (2); Lengar, I. (2) 1 - Jozef Stefan Institute, Reactor Engineering Division (R4), Slovenia 2 - Jozef Stefan Institute, Reactor Physics (F8), Slovenia
RRFM2014-A0033	NEUTRONIC AND THERMAL HYDRAULIC CHARACTERISTICS OF U-MO FUEL MINI PLATES IRRADIATED IN HANARO REACTOR	Jo, D. (1); Kim, H. (1); Seo, C. G. (1); Chae, H. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea

10:30 – 10:50 Coffee break



Tu 10.50 - 12.30 Parallel Session: LEU fuel fabrication & conversion

Chair: J.Stevens, Argonne National Laboratory, United States

RRFM2014-A0124	INTERFACE FRACTURE CHARACTERIZATION OF PLASMA SPRAYED AND HIP BONDED METALLIC COATINGS USING BULGE TESTING	Hollis, K. (1); Liu, C. (1); Lovato, M. (1); Dombrowski, D. (1) 1 - Los Alamos National Laboratory, United States
RRFM2014-A0128	PROGRESS IN OPTIMIZATION OF U-10Mo FUEL CASTING BY MODELING AND EXPERIMENT	Aikin, R. (1); Dombrowski, D. (1) 1 - Los Alamos National Laboratory, United States
RRFM2014-A0131	CONTINUING LEU CONVERSION ACTIVITIES AT THE HIGH FLUX ISOTOPE REACTOR	Renfro, D. G. (1); Chandler, D. (1); Cook, D. H. (1); Freels, J. D. (1); Ilas, G. (1); Jain, P. K. (1); Pinkston, D. L. (1); Smith, K. A. (1) 1 - UT Battelle Oak Ridge National Laboratory, United States
RRFM2014-A0133	FUEL ELEMENT DESIGN AND ANALYSIS FOR ADVANCED TEST REACTOR CONVERSION TO LOW ENRICHED URANIUM FUEL	Dehart, M. (1); Pope, M. (1); Nigg, D. (1); Jamison, K. (1); Morrell, S. (1) 1 - Idaho National Laboratory, United States
RRFM2014-A0134	SAFETY ANALYSIS AND PLANNING FOR THE CONVERSION OF THE NIST CENTER FOR NEUTRON RESEARCH REACTOR TO LEU	O'Kelly, S. (1); Rowe, M. (1); Williams, R. (1); Diamond, D. (2); Baek, J. S. (2); Cheng, L.-Y. (2); Hanson, A. (2); Brown, N. (2) 1 - National Institute of Standards and Technology, United States 2 - Brookhaven National Laboratory, USA

Tu 10.50 - 12.30 Parallel Session: Research Reactor Operation and Maintenance

Chair: H. Gerstenberg, Technical University Munich, Germany

RRFM2014-A0018	CORROSION BEHAVIOR FOR CARBON STEEL IN RSG-GAS SECONDARY WATER COOLANT	Sunaryo, G. R. (1); Santoso, M. I. (2); Rahmat, A. (1) 1 - PTRKN - BATAN, Indonesia 2 - STTN - BATAN, Indonesia
RRFM2014-A0037	COMPARISON OF MEASURED AND CALCULATED INTEGRAL AND DIFFERENTIAL REACTIVITY WORTH OF CONTROL RODS IN A TRIGA REACTOR	Merljak, V. (1); Merljak, V. (2); Lengar, I. (2); Trkov, A. (2) 1 - Faculty of Mathematics and Physics, University of Ljubljana, Slovenia 2 - Reactor physics department, 'Jožef Stefan' Institute, Slovenia
RRFM2014-A0053	IMPROVED INSTRUMENTATION AND CONTROL (I&C) MAINTENANCE TECHNIQUES FOR RESEARCH REACTORS USING THE PLANT COMPUTER	Morris, C. (1) 1 - IAEA, Austria
RRFM2014-A0056	RESEARCH ACTIVITIES IN BATAN FOR THE BURNUP MEASUREMENT OF SILICIDE FUEL	Sembiring, T. M. (1) 1 - National Nuclear Energy Agency of Indonesia - BATAN, Indonesia
RRFM2014-A0126	IMPACT OF HEU TO LEU FUEL CONVERSION ON THE LIFETIME AND EFFICACY OF THE UNIVERSITY OF MISSOURI RESEARCH REACTOR BERYLLIUM REFLECTOR	Foyto, L. (1); Mckibben, J. C. (1); Peters, N. (1); Saddler, J. (1) 1 - University of Missouri-Columbia Research Reactor, United States



12:30 – 13:20 Lunch

13:20 – 14:20 Poster Session

Tu 14.20 - 16.00 Parallel Session:

Fuel cycle issues

Chair: Y.Calcavara, Institut Laue-Langevin, France

RRFM2014-A0023	INFLUENCE OF DEPLETED MOLYBDENUM-95 ON MONOLITHIC UMO FUEL PLATE DESIGNS FOR FRM II	Breitkreutz, H. (1); Röhrmoser, A. (1); Petry, W. (1) 1 - Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II), Technische Universität München, Germany
RRFM2014-A0098	TEST PLAN FOR MINI PLATES IRRADIATION AND PIE FOR U-7MO FUEL QUALIFICATION	Yim, J. S. (1); Tahk, Y. W. (1); Kim, H. J. (1); Oh, J. Y. (1); Lee, B. H. (1); Park, J. M. (1); Jeong, Y. J. (2); Lee, K. H. (2) 1 - Nuclear Fuel Design for Research Reactor, KAERI, Republic of Korea 2 - Research Reactor Fuel Development, KAERI, Republic of Korea
RRFM2014-A0108	RESULTS OF THE TRIAL OF LEAD TEST ASSEMBLIES IN THE WWR-K REACTOR	Arinkin, F. (1); Chakrov, P. (1); Chekushina, L. (1); Gizatulin, S. (1); Koltochnik, S. (1); Shaimerdenov, A. (1); Hanan, N. (2); Garner, P. (2); Roglans-Ribas, J. (2) 1 - The Kazakhstan Ministry of Energy and Mineral Resources, The Institute of Nuclear Physics, Kazakhstan 2 - The Argonne National Laboratory, United States
RRFM2014-A0113	LOW ENRICHMENT URANIUM FUEL ELEMENT DESIGNS WITH MONOLITHIC U-10MO FUEL AND UN-FINISHED CLADDING FOR THE MIT RESEARCH REACTOR	Wilson, E. (1); Bergeron, A. (1); Yesilyurt, G. (1); Dunn, F. (1); Stevens, J. (1); Hu, L. W. (2); Newton, T. (2) 1 - Argonne National Laboratory, United States 2 - MIT, United States
RRFM2014-A0117	EVALUATION OF U10MO FOR THE CONVERSION OF KUCA DRY CORES	Morman, J. (1); Aliberti, G. (1) 1 - Argonne National Laboratory, United States

Tu 14.20 - 16.00 Parallel Session:

Innovative Methods in Research Reactor Analysis and Design II

Chair: István Vidovszky, AEKI, Hungary

RRFM2014-A0088	A 3D THERMO-MECHANICAL MODEL TO PREDICT BALLOONING AND BURST BEHAVIOR OF ZIRCALOY-4 FUEL CLADDING DURING LOCA TRANSIENTS IN LWR, EMPLOYING COMMERCIAL NUMERICAL SIMULATION SOFTWARE.	Landau, E. (1); Weiss, Y. (2); Szanto, M. (2) 1 - Department of Nuclear Engineering, Ben Gurion University, Israel 2 - Rotem Industries LTD,, Israel
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RRFM2014-A0097	MEASUREMENT AND CHARACTERIZATION OF THE INTEGRAL AND FAST NEUTRON FLUX DISTRIBUTION IN THE TRIGA MARK II REACTOR CORE.	Chiesa, D. (1); Clemenza, M. (1); Nastasi, M. (1); Pozzi, S. (1); Prata, M. (2); Previtali, E. (3); Salvini, A. (2); Scionti, G. (1); Sisti, M. (1) 1 - Università degli Studi di Milano-Bicocca, Dipartimento di Fisica, Italy 2 - Università di Pavia, Laboratorio di Energia Nucleare Applicata (LENA), Italy 3 - Istituto Nazionale di Fisica Nucleare sez. Milano-Bicocca, Italy
RRFM2014-A0106	EXPERIMENTAL STUDY OF THERMOSIPHON CIRCULATION OF WATER THROUGH A TRIANGLE ROD BUNDLE	Aharon, Y. (1); Hochbaum, I. (1) 1 - NRCN, Israel
RRFM2014-A0107	FUEL BURNUP MODELIZATION WITH THE MONTE CARLO CODE MCNP5 AND CORE RECONFIGURATION PREDICTION FOR THE TRIGA MARK II REACTOR AT THE UNIVERSITY OF PAVIA	Alloni, D. (1); Cammi, A. (2); Chiesa, D. (3); Clemenza, M. (3); Manera, S. (1); Pozzi, S. (3); Prata, M. (1); Previtali, E. (4); Salvini, A. (1); Sartori, A. (2); Sisti, M. (4); Zanetti, M. (2) 1 - Laboratorio Energia Nucleare Applicata (L.E.N.A.) of the University of Pavia, Italy 2 - Energy Department of Polytechnical University of Milan, Italy 3 - Physics Department "G. Occhialini" of the University of Milano-Bicocca, Italy 4 - INFN Section of Milano Bicocca, Italy
RRFM2014-A0112	REVERSAL OF OFI AND CHF IN RESEARCH REACTORS: APPLICATION TO THE BR2 HEU AND LEU CORES	Kalimullah, M. (1); Olson, A. P. (1); Feldman, E. E. (1); Dionne, B. (1); Kalcheva, S. (2); Van den Branden, G. (2); Koonen, E. (2) 1 - Argonne National Laboratory, United States 2 - SCK•CEN, BR2 Reactor Department, Belgium

16:00 – 16:20 Coffee break

Tu 16.20 - 17.40 Parallel Session:

Back end of the fuel cycle I

Chair: X.Domingo, AREVA NC, France

RRFM2014-A0041	THE NEWEST CASK DESIGN FOR INTERNATIONAL SHIPMENTS IN SUPPORT OF RESEARCH REACTOR AND LABORATORIES STAKEHOLDERS: TN-LC PACKAGE	Guibert, N. (1) 1 - AREVA TN, United States
RRFM2014-A0044	RADIOACTIVE WASTE ANALYSIS OF RESEARCH REACTOR SPENT FUEL	Khan, R. (1); Hussain, I. (1); Muhammad, A. (2); Khan, S. (1); Stummer, T. (3) 1 - Pakistan Institute of Engineering and Applied Sciences (PIEAS), Pakistan 2 - Pakistan Institute of Nuclear Science and Technology (PINSTECH), Pakistan 3 - Atominstytut/Vienna University of Technology, Austria

RRFM2014-A0080	GLOBAL THREAT REDUCTION INITIATIVE'S U.S.-ORIGIN NUCLEAR MATERIAL REMOVAL PROGRAM: 2014 UPDATE	Messick, C. (1); Galan, J. (1) 1 - U.S. Department of Energy - National Nuclear Security Administration, United States
RRFM2014-A0084	PREPARATIONS FOR THE DECOMMISSIONING OF THE FINNISH TRIGA FIR 1 – SPENT FUEL BACK-END MANAGEMENT AND DISTRIBUTION OF THE UNSPENT FUEL	Auterinen, I. (1); Viitanen, T. (1); Rätty, A. (1); Häkkinen, S. (1); Kotiluoto, P. (1) 1 - VTT Technical Research Centre of Finland, Finland

RRFM Conference Dinner

Wednesday 2 April 2014

We 9.00 - 11.00 Parallel Session: Back end of the fuel cycle II

Chair: B. Stepnik, AREVA CERCA, France

RRFM2014-A0052	AVAILABLE REPROCESSING AND RECYCLING SERVICES FOR RESEARCH REACTOR SPENT NUCLEAR FUEL (INTRODUCTION OF A NEW IAEA REPORT)	Tozser, S. (1); Adelfang, P. (1); Bradley, E. (1); Budu, M. (2); Chiguer, M. (3) 1 - IAEA, Austria 2 - Research and Development Company SOSNY, Russian Federation 3 - AREVA, France
RRFM2014-A0015	AIR SHIPMENT OF SPENT NUCLEAR FUEL FROM THE BUDAPEST RESEARCH REACTOR	Dewes, J. (1); Gajdos, F. (2); Vidovszky, I. (2) 1 - Savannah River National Laboratory, United States 2 - MTA Centre for Energy Research, Hungary
RRFM2014-A0110	STATUS OF SILICIDE FUELS REPROCESSING AT LA HAGUE PLANT	Eysseric, C. (1); Juvenelle, A. (1); Reynier-Tronche, N. (1); Feraud, J. (2); Randriamanantena, T. (2); Ode, D. (2); Lorrain, B. (2); Valery, J.F. (3); Domingo, X. (3) 1 - CEA DEN/DRCP/DIR, France 2 - CEA DEN/DTEC/SGCS, France 3 - AREVA NC, France
RRFM2014-A0115	RESEARCH REACTOR URANIUM SUPPLY PROGRAM UPDATE	Nelson, T. (1) 1 - Y-12 National Security Complex, USA
RRFM2014-A0135	DEPLETION / DECAY CHARACTERISTICS OF PARR-1 LEU FUEL	Mahmood, T. (1); Muhammad, A. (1); Iqbal, M. (1) 1 - PINSTECH, Pakistan Atomic Energy Commission, Pakistan
RRFM2014-A0145	US DOE SPENT NUCLEAR FUEL PROGRAM UPDATE	Deleon, E. (1); Nigam, H. (1) 1 - US Department of Energy, Office of Environmental Management, United States



We 9.00 - 11.00 Parallel Session: Safety and Security of Research Reactors

Chair: P. Adelfang, IAEA

RRFM2014-A0002	REGULATORY ASSESSMENT OF THE PERFORMANCE OF RESEARCH REACTORS FOR RE-LICENSING	Erdebil, I. (1) 1 - Canadian Nuclear Safety Commission, Canada
RRFM2014-A0014	TRANSIENT ANALYSIS BEHAVIOR FOR THE JRTR RESEARCH REACTOR UNDER LOSS OF ELECTRICAL POWER ACCIDENT	Al-Yahia, O. (1); Jo, D. (2); Alkhafaji, S. (1); Albat, M. (1) 1 - Jordan Atomic Energy Commission, Jordan 2 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0021	TRANSIENT ANALYSIS OF THE IR-8 REACTOR MIXED LOADINGS DURING CONVERSION FROM HEU TO LEU	Nasonov, V. (1); Pesnya, Y. (1); Sidorenko, A. (1); Hanan, N. (2); Garner, P. (2) 1 - National Research Centre «Kurchatov Institute» (NRC KI), Russian Federation 2 - Argonne National Laboratory (ANL), United States
RRFM2014-A0022	PROGRESS IN ASSESS SAFETY OF THE IR-8 REACTOR DURING CONVERSION TO LEU FUEL	Erak, D. (1); Nasonov, V. (1); Taliev, A. (1); Pesnya, Y. (1); Sidorenko, A. (1); Dubovskiy, Y. (1); Pavlenko, V. (1); Smirnov, L. (1); Danichev, V. (1) 1 - National Research Centre «Kurchatov Institute» (NRC KI), Russian Federation
RRFM2014-A0027	SAFETY ANALYSIS FOR CONVERSION OF IRT MEPHI RESEARCH REACTOR TO LEU FUEL	Alferov, V. P. (1); Kryuchkov, E. F. (1); Shchurovskaya, M. V. (1); Hanan, N. A. (2); Garner, P. L. (2); Kontogeorgakos, D. (2) 1 - National Research Nuclear University MEPhI, Russian Federation 2 - Argonne National Laboratory, United States
RRFM2014-A0137	INTERFACE BETWEEN SAFETY AND SECURITY FOR RESEARCH REACTORS	Shokr, A. (1); Torres Vidal, C. (1); Lolich, J. (1); Clarke, M. (1); 1 - IAEA

11:00 – 11:20 Coffee break

We 11.20 - 12.40 Parallel Session: Innovative Methods in Research Reactor Analysis and Design III

Chair: S. Curr, Rolls Royce, United Kingdom

RRFM2014-A0060	STATUS AND CALL FOR PROJECT PROPOSALS RELATED TO THE NEW IAEA CRP ON "BENCHMARKS AGAINST EXPERIMENTAL DATA ON FUEL BURNUP AND TARGET/MATERIAL ACTIVATION"	Ridikas, D. (1); Peld, N. (1); Borio, A. (1); Kennedy, W. (1) 1 - IAEA, Austria
RRFM2014-A0011	MODELING THE CLADDING-OXIDE GROWTH AND ITS EFFECTS ON THE THERMO-MECHANICAL PERFORMANCE OF THE FUEL PLATES IN THE E-FUTURE-1 EXPERIMENT	Tentner, A. (1); Bergeron, A. (1); Kim, Y.-S. (1); Stevens, J. (1); Van den Berghe, S. (2); Kuzminov, V. (2) 1 - Argonne National Laboratory, United States 2 - SCK•CEN, Belgium



RRFM2014-A0081	MULTI-CHANNEL THERMAL HYDRAULIC ANALYSIS OF PLATE TYPE RESEARCH REACTORS	Albati, M. (1); Jo, D. (2); Alkhafaji, S. (1); Al-Yahia, O. (1) 1 - Jordan Atomic Energy Commission (JAEC), Jordan 2 - Korea Atomic Energy Research Institute (KAERI), Republic of Korea
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We 11.20 - 12.40 Parallel Session: Research Reactor Operation and Maintenance II

Chair: J. Lolich, IAEA

RRFM2014-A0057	DEVELOPMENT OF REACTOR INFORMATION SYSTEM AT JSI TRIGA MARK II REACTOR	Jazbec, A. (1); Snoj, L. (1); Smodis, B. (1) 1 - Jozef Stefan Institute, Slovenia
RRFM2014-A0059	REACTIVITY MEASUREMENTS AT THE TRIGA REACTOR USING SIGNAL FROM MULTIPLE FISSION CELLS	Lengar, I. (1); Merljak, V. (1) 1 - Jozef Stefan Institute, Slovenia
RRFM2014-A0102	FUEL MANAGEMENT AT ENEA TRIGA RC-1 REACTOR	Falconi, L. (1); Carta, M. (1); Palomba, M. (1); Sepielli, M. (1) 1 - ENEA, Italy
RRFM2014-A0123	THE RESULTS OF REPLACEMENT OF THE PUMPS IN PRIMARY FUEL CHANNEL COOLING CIRCUIT IN MARIA REACTOR.	Krzysztozek, G. (1); Pytel, K. (1) 1 - National Centre for Nuclear Research, Poland

12:40 – 13:20 Lunch

We 13.20 - 15.00 International Topics II

Chair: E. Koonen, SCK•CEN, Belgium; Co-chair: P. Adelfang, IAEA

RRFM2014-A0001	VIENNA RELOAD, USED TRIGA FUEL BURNS AGAIN (A PACKAGING AND TRANSPORT STORY)	Adam, J. (1) 1 - NAC International Inc., United States
RRFM2014-A0028	PRELIMINARY ANALYSIS OF THE IMPACT OF FUEL DENSITY ON THE RESEARCH REACTOR FUEL CYCLE	Ryu, H. J. (1); Seo, C. G. (2); Adelfang, P. (3) 1 - Korea Advanced Institute of Science and Technology, Republic of Korea 2 - Korea Atomic Energy Research Institute, Republic of Korea 3 - International Atomic Energy Agency, Austria
RRFM2014-A0121	IAEA ASSISTANCE IN THE DEVELOPMENT OF NEW RESEARCH REACTOR PROJECTS	Borio di Tigliole, A. (1); Bradley, E. (1); Zhukova, A. (1); Adelfang, P. (1); Shokr, A. (1); Ridikas, D. (1) 1 - International Atomic Energy Agency, Austria
RRFM2014-A0132	AFTER THE 2014 NUCLEAR SECURITY SUMMIT: AN END TO HEU USE ON MO-99 PRODUCTION?	Pomper, M. (1) 1 - James Martin Center for Nonproliferation Studies, Monterey Institute, United States
	"PROGRESS OF MNSR CONVERSION FROM HEU TO LEU"	Li Yiguo China Institute of Atomic Energy People's Republic of China



We 15.00 - 15.30 Closing Session

Chair: E. Koonen, SCK•CEN, Belgium

ANNOUNCEMENT OF THE WINNER OF THE POSTER AWARD

Thursday 3 April 2014

Technical Tours



Poster

RRFM2014-A0051	INFLUENCE OF THERMAL ANNEALING ON THE SPECIFIC HEAT OF DIFFERENT DISPERSION U-(7-8)WT%MO FUEL	Reiter, C. (1); Breitzkreutz, H. (1); Huber, T. (1); Zweifel, T. (1); Petry, W. (1); 1 - Forschungsneutronenquelle Heinz Maier-Leibnitz (FRM II), Technische Universität München, Germany
RRFM2014-A0003	STUDY OF METHODS FOR PHASE CHARACTERIZATION IN INTERMETALLIC UALX	Durazzo, M. (1); Conturbia, G. D. L. C. (1); Garcia, R. H. L. (1); Saliba-Silva, A. M. (1) 1 - Nuclear and Energy Research Institute - IPEN-CNEN/SP, Brazil
RRFM2014-A0006	BENCHMARK CRITICALITY EXPERIMENTS FOR URANIUM-WATER HETEROGENEOUS CONFIGURATIONS WITH LOW ENRICHMENT UZRCN FUEL	Sikorin, S. (1); Mandzik, S. (1); Polazau, S. (1); Hryharovich, T. (1); Soltan, I. (1); Gohar, Y. (2); Talamo, A. (2); Zhong, Z. (2); Bolshinsky, I. (3); Tukhvatulin, S. (4); Zhalilov, R. (4); Vishnevsky, V. (4); Daragan, I. (4) 1 - Joint Institute for Power and Nuclear Research - Sosny, Belarus 2 - Argonne National Laboratory, United States 3 - Idaho National Laboratory, United States 4 - Scientific Research Institute Scientific Industrial Association "LUCH", Russian Federation
RRFM2014-A0007	ADVANCES IN HIGH TEMPERATURE NUCLEAR FUELS	Udovic, B. (1) 1 - Društvo jedrskih strokovnjakov Slovenije - Nuclear Society of Slovenia, Slovenia
RRFM2014-A0008	PASSIVE RESIDUAL HEAT REMOVAL SYSTEM OF AN OPEN-POOL TYPE RESEARCH REACTOR USING GRAVITY CORE COOLING TANK	Lee, K.-Y. (1); Chi, D.-Y. (1); Kim, S. H. (1); Seo, K. (1); Yoon, J. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0009	SERPENT CODE SIMULATION OF IPR-R1 TRIGA REACTOR	Araújo Silva, V. (1); Meireles, S. (1); Dos Santos, A. A. (1); Campolina, D. (1); Mesquita, A. (1) 1 - Centro de Desenvolvimento da Tecnologia Nuclear (CDTN/CNEN), Brazil
RRFM2014-A0010	NEUTRONIC COMPARISON OF THE U3SI2/AL AND U-MO/AL DISPERSION FUELS	O. R. Muniz, R. (1); B. Domingos, D. (1); Dos Santos, A. (1); T. E. Silva, A. (1) 1 - IPEN-CNEN, SP, Brazil
RRFM2014-A0012	ASSESSMENT OF GLOBAL UNCERTAINTY WITH 5-MW POOL-TYPE RESEARCH REACTOR	Yum, S. (1); Park, S. (1); Chung, Y. (1) 1 - Korea Atomic Energy Research Institute (KAERI), Republic of Korea
RRFM2014-A0024	BIOLOGICAL SHIELDING CALCULATIONS AND DESIGN FOR THE SCRWFQT TEST LOOP AT THE LVR-15 REACTOR	Soltes, J. (1); Vojacek, A. (1); Ruzickova, M. (1); Frybort, O. (1) 1 - Research Centre Rez, Czech Republic

RRFM2014-A0026	TRANSPORT CFX SIMULATION OF ACTIVATED RADIONUCLIDE THROUGH THE TRIGA REACTOR POOLS	Henry, R. (1); Tiselj, I. (1); Stepisnik, M. (2) 1 - Jozef Stefan Institute, Reactor Engineering Division (R4), Slovenia 2 - Jozef Stefan Institute, Radiation Protection Unit (RPU) - SVPIIS, Slovenia
RRFM2014-A0029	UTILIZATION OF A UNIVERSITY REACTOR FOR PUBLIC ACCEPTANCE	Kim, M. H. (1) 1 - Kyung Hee University, Republic of Korea
RRFM2014-A0039	INTERDIFFUSION STUDIES BETWEEN A U7WT%MO ALLOY AND ZIRCALOY-4	Araldi Cardoso, K. (1); F. Urano de Carvalho, E. (1); Durazzo, M. (1); G. Riella, H. (2); 1 - Nuclear and Energy Research Institute, Brazil 2 - Santa Catarina Federal University, Brazil
RRFM2014-A0046	IRRADIATION TEST CONDITIONS OF U-7MO DISPERSION FUEL FOR KJRR FUEL QUALIFICATION	Tahk, Y.-W. (1); Kim, H.-J. (1); Oh, J.-Y. (1); Lee, B.-H. (1); Park, J.-M. (1); Yim, J.-S. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0049	NEUTRONIC CALCULATIONS USING DIFFERENT METHODOLOGIES (TRANSPORT AND MONTE CARLO) TO CHARACTERIZATION AND TECHNICAL SPECIFICATION GENERATION OF TARGETS FOR 99MO PRODUCTION BY FISSION IN THE MULTIPURPOSE BRAZILIAN REACTOR (RMB)	Borges Domingos, D. (1); Teixeira E Silva, A. (1); Dos Santos, A. (1) 1 - IPEN-CNEN/SP, Brazil
RRFM2014-A0055	INSPECTION SYSTEM FOR U-MO PLATE FUELS USING X-RAY TESTING AND ULTRASONIC TESTING METHODS.	Lee, Y.-S. (1); Lee, K.-H. (1); Sim, C.-M. (1); Jeong, Y.-J. (1); Lee, H.-I. (1); Park, J.-M. (1) 1 - Korea Atomic Energy Research Institute, Republic of Korea
RRFM2014-A0065	IMPROVED POWER MEASUREMENTS AT THE JSI TRIGA REACTOR IN LJUBLJANA USING MULTIPLE DETECTORS	Žerovnik, G. (1); Snoj, L. (1); Trkov, A. (1); Barbot, L. (2); Fourmentel, D. (2); Villard, J.-F. (2) 1 - Jožef Stefan Institute, Slovenia 2 - CEA Cadarache, France
RRFM2014-A0071	COATED U(MO) FUEL: AS-FABRICATED MICROSTRUCTURES	Perez, E. (1); Keiser, D. (1); Leenaers, A. (2); Van den Berghe, S. (2) 1 - Idaho National Laboratory, United States 2 - SCK•CEN, Belgium
RRFM2014-A0073	GROWTH BEHAVIOUR OF INTERMETALLIC COMPOUNDS DURING REACTIVE DIFFUSION BETWEEN ALUMINUM AND MAGNESIUM AT 573 - 673 K	Xiao, L. (1); Wang, N. (1) 1 - Atomic Energy of Canada Limited Chalk River Laboratories, Canada
RRFM2014-A0074	THERMAL DESIGN OF THE LORELEI TEST DEVICE USING A COMSOL INVERSE SOLVER	Shenha, H. (1); Gitelman, D. (1); Preker, I. (1); Arbel-Haddad, M. (2); Ferry, L. (3); Weiss, Y. (1); Katz, M. (2) 1 - ROTEM Ind., Israel 2 - NRCN, Israel 3 - French Atomic Energy Commission (CEA) - Cadarache Centre, France

RRFM2014-A0075	INVESTIGATION INTO THE EFFECTS OF CORE CONVERSION ON THE NEUTRON TEMPERATURE IN THE IRRADIATION CHANNELS OF NIRR-1	Ibrahim, Y. V. (1); Jonah, S. A. (1); Ajuji, A. S. (1) 1 - Centre for Energy Research and Training, Ahmadu Bello University, Zaria, Nigeria
RRFM2014-A0076	NUMERICAL SIMULATION OF A SINGLE-PHASE CLOSED-LOOP THERMOSYPHON IN THE LORELEI TEST DEVICE	Gitelman, D. (1); Tarabelli, D. (2); Shenha, H. (1); Weiss, Y. (1); Katz, M. (3); Gonnier, C. (2); Sasson, A. (1) 1 - ROTEM Ind., Israel 2 - French Atomic Energy Commission (CEA) - Cadarache Centre, France 3 - NRCN, Israel
RRFM2014-A0085	FISSION-INDUCED CREEP OF U-MO/AL DISPERSION FUEL MEAT	Kim, Y. S. (1); Jeong, G. Y. (2); Sohn, D.-S. (2) 1 - ANL, United States 2 - UNIST, Republic of Korea
RRFM2014-A0086	POST-IRRADIATION EXAMINATION OF KOMO-5 IRRADIATION TEST FOR THE HANARO FULL SIZE U-MO DISPERSION FUEL	Lee, K. H. (1); Park, J. M. (1); Ryu, H. J. (2); Jeong, Y. J. (1); Nam, J. M. (1); Lee, Y. S. (1); Ok, Y. B. (1); Jung, Y. H. (1); Seo, C. G. (1); Kim, Y. S. (3) 1 - Korea Atomic Energy Research Institute, Republic of Korea 2 - Korea Advanced Institute of Science and Technology, Republic of Korea 3 - Argonne National Laboratory, United States
RRFM2014-A0089	CONCEPT OF THE LORELEI TEST DEVICE FOR LOCA EXPERIMENT IN THE JHR REACTOR	Szanto, M. (1); Moran, N. (1); Ferry, L. (2); Azulay, A. (1); Mileguir, O. (1); Weiss, Y. (1) 1 - Rotem Industries LTD, Israel 2 - French Atomic Energy Commission (CEA) - Cadarache Centre, France
RRFM2014-A0099	DEVELOPMENT OF U(MO) FUEL MINIPLATES DISPERSED IN AL(SI) MATRIX. MICROSTRUCTURAL CHARACTERIZATION.	Mirandou, M. (1); Aricó, S. (1); Balart, S. (1); Fabro, J. (1) 1 - Comisión Nacional de Energía Atómica (CNEA), Argentina
RRFM2014-A0100	NEUTRON IRRADIATION OF U3SI5 AND AL43MO4U6 COMPOUNDS. FIRST RESULTS.	Mirandou, M. (1); Gonzalez, R. (1); Aricó, S. (1); Fortis, A. (1) 1 - Comisión Nacional de Energía Atómica (CNEA), Argentina
RRFM2014-A0119	INSIGHTS ON THE KINETIC AND MECHANISM BEHAVIORS OF LAYER FORMATION IN UAL2-AL DIFFUSION COUPLE.	Moussa, C. (1); Tougait, O. (1); Pasturel, M. (1); Peron, I. (1); Geslin, D. (2); Jarousse, C. (2); Stepnik, B. (2) 1 - Institut des Sciences Chimiques de Rennes, France 2 - AREVA-CERCA, France
RRFM2014-A0130	A STUDY ON THE CHANGE OF THE HOT AND AVERAGE CHANNELS PHYSICS DUE TO A SUDDEN LINEAR DECREASE IN THE FLOW RATE	Altamimi, R. (1) 1 - University of Science and Technology (UST), Republic of Korea
RRFM2014-A0125	PROGRESS IN DEVELOPMENT OF LARGE, FORMED HIP CANS FOR CLADDING OF U-MO FUEL	Clarke, K. (1); Crapps, J. (1); Tucker, L. (1); Dvornak, M. (1); Hudson, R. (1); Aikin, B. (1); Dombrowski, D. (1) 1 - Los Alamos National Laboratory, United States



RRFM2014-A0129	EFFECT OF COLD DEFORMATION AND ANNEALING TEMPERATURE ON U-10MO FUEL FOIL GEOMETRY	Alexander, D. (1); Clarke, K. (1); Scott, J. (1); Montalvo, J. (1); Dombrowski, D. (1) 1 - Los Alamos National Laboratory, United States
RRFM2014-A0063	THERMAL-FLUID SIMULATIONS OF U-MO/AL AND U-MO/MG RESEARCH REACTOR FUEL	Piro, M. (1); Leitch, B. (1); Wang, N. (1) 1 - Chalk River Laboratory, Canada
RRFM2014-A0136	Metallographic Study on alloy Zyr-4 used in manufacture of monolithic miniplates	Gonzalez, A. G. (1); Munoz, C. A. (1); Arnaldo, G. J. (2) 1 - Nuclear Fuel Cycle Management, Constituyentes Atomic Center, National Commission of Atomic Energy, Argentina 2 - Materials Management, Department of Characterization and fracture mechanics, National Commission of Atomic Energy, Argentina
RRFM2014-A0138	DIGITAL SAFETY AND I&C SYSTEMS AND NEUTRON INSTRUMENTATION SUBSYSTEMS	Matousek, J. (1); Kochova, M. (1); Herrmann, J. (1) 1 - I&C, dataPartner s.r.o, Czech republic
RRFM2014-A0139	DETERMINATION OF UNCONTROLLED PARAMETERS OF WWR-KN EFAS	Techerepnin, Y. S. (1); Sokolov, S. A. (1); Bulkin, S. Y. (1); Lukichev, V. A. (1); Kravtsova, O. A. (1); Radaev, A. I. (1); Derikot, A. P. (1) 1 - JSC 'NIKIET', Russian Federation
RRFM2014-A0144	FLUX REGAIN MEASURES AT CONVERSION FRM II TO LOWER ENRICHMENT	Röhrmoser, A. (1) 1 - Forschungsneutronenquelle Heinz Maier-Leibnitz, Technische Universität München, Germany