

**International Conference**

# **GLOBAL 2005**

**Nuclear Energy Systems for  
Future Generation and Global Sustainability**

October 9-13, 2005

Tsukuba International Congress Center,  
Tsukuba, Japan



**Official Program**

## Background

The GLOBAL conference series was started in 1993. During the first decade of the GLOBAL conference series, from 1993 to 2003, circumstances surrounding the use of nuclear systems have gradually but surely changed. Improvement in the total cost of nuclear power generation, and resolution of difficult fuel cycle concerns are allowing the world to favorably consider nuclear power generation. Progress in the repository projects for safe disposal of high-level radioactive wastes in the United States of America and some other countries has begun to demonstrate a feasible solution to the central issue of the back-end of the fuel cycle. New trends in energy utilization, such as the notable technical progress of the hydrogen fuel cells, have suggested additional opportunities for nuclear technologies with respect to the carbon-free hydrogen production. Under the changing circumstance in this decade, extensive research and development projects for reactor technology, fuel cycle technology, as well as transmutation technology have progressed in various countries. The projects include international Generation IV (Gen-IV), US's Advanced Fuel Cycle Initiative (AFCI), Japan's Feasibility Study (FS), IAEA's Innovative Nuclear Reactors and Fuel Cycle (INPRO) and so on.

Based upon achievements in this past decade, substantive and quantitative discussions on the theme of new nuclear technologies can be expected to continue in the new decade of the GLOBAL series, and GLOBAL 2005 will be the starting point of this.

## Conference Scope

The GLOBAL series has successfully provided a global forum for discussions about the future nuclear energy systems with emphasis on the advancement of the fuel cycle technologies. Based on this traditional principle, GLOBAL 2005 will cover a wide range of subjects related to the advancement of nuclear technologies, providing up-to-date information. This conference concentrates on advanced system concepts, reactors, fuels, materials, reprocessing, partitioning & transmutation, waste management, nuclear utilization, and other related innovative technologies. Special emphasis will be placed on the status and results of the international studies for developing next generation systems. It will also be a good opportunity for review and discussion of the related national policies, plans and status, international cooperation, as well as the common world issues, such as the assurance of non-proliferation, prevention of nuclear terrorism, achieving favorable public perception, public education, and fostering of next generation technical experts.

---

## Contents

Background	1
Conference Scope	1
Program, tabulated	2
Floor plan	4
Program, session by day	5
Exhibition	10
Organization	11

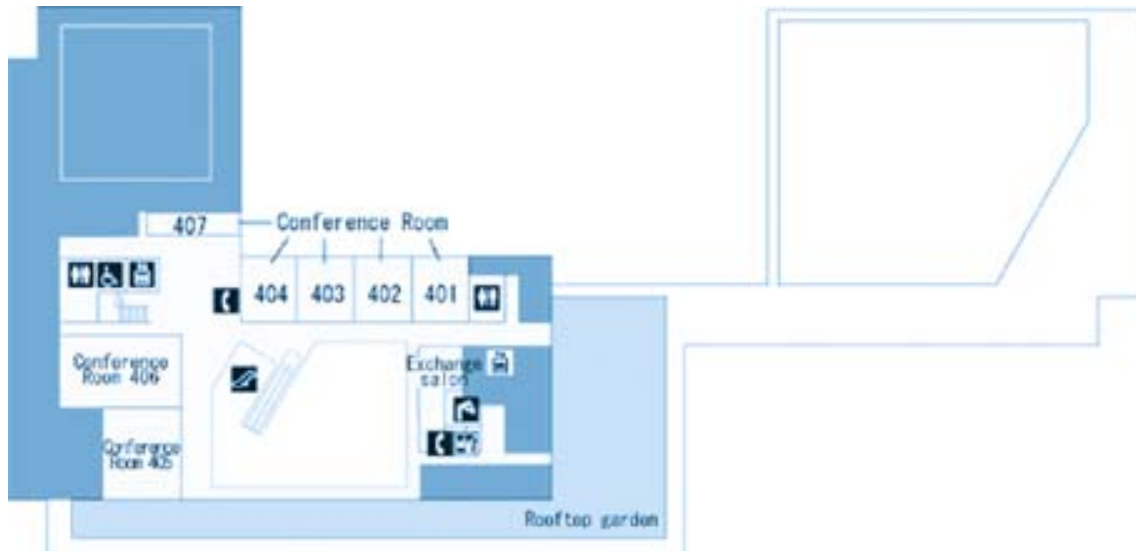
## Program, at a glance

		Main Convention Hall	Multi Purpose Hall	Conference Room	Convention Hall	Conference Room	Conference Room
				101+102	200	201	202A
Sunday Oct. 9	Registration 16 :00-						
	17:45 - 20:00			Reception			
Monday Oct.10	Registration 8 :00-						
	9:00 - 12:10	Opening Plenary I	Exhibition				
	Luncheon			Poster	Presidentail Lunch		
	13:30 - 15:20 4 Oral+10 min	Joint program with Tsukuba city, -16:15			2B Panel	5A-I	8D-I
	Coffee Break						
	15:50 - 18:10 5 Oral+15min					5A-II	8D-II
	18:30 - 20:00			Poster session			
Tuesday Oct.11	Registration 8 :00-						
	8:30 - 10:50	Plenary Panel I					
	11:00 - 12:50 4 Oral+10 min		Exhibition	Poster	15B	6C-I	8A-I
	Luncheon				Lunch		
	14:10 - 16:00 4 Oral+10 min				11B-2	6C-II	8A-II
	Coffee Break						
	16:30 - 18:20 4 Oral+10 min				11B-2 Panel	6C-III	8A-III
	18:30 - 20:00				Night session - 21:00		
Wednesday Oct.12	Registration 8 :00-						
	8:30 - 10:00	Plenary II					
	10:10 - 12:30 5 Oral+15 min		Exhibition	Poster	14A	3E-I	7C-I
	Luncheon				Lunch		
	13:50 - 15:40 4 Oral+10 min				2C Panel	3E-II	7C-II
	Coffee Break						
	16:10 - 18:00 4 Oral+10 min					3B	7C-III
	Banquet 18:30-20:30						
Thursday Oct.13	Registration 8 :00-						
	8:30 - 10:50	Plenary Panel II					
	11:00 - 12:50 4 Oral+10 min		Exhibition	Poster		3F-I	6D-I
	Luncheon				Lunch		
	14:10 - 16:00 4 Oral+10 min				15A	3F-II	6D-II
	Coffee Break						
	16:20 - 17:10	Closing session					

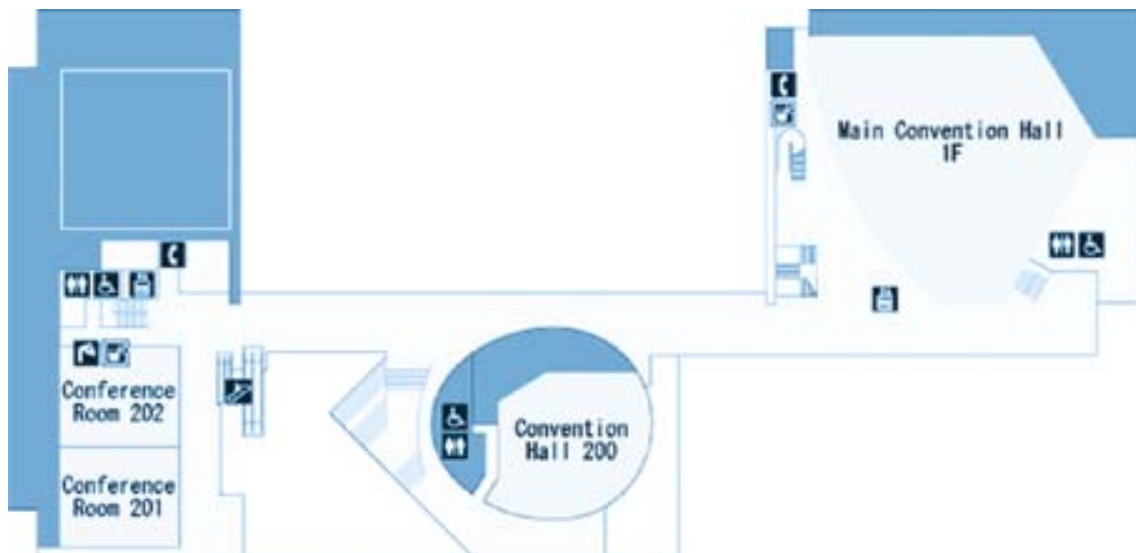
Conference Room	Convention Hall	Conference Room	Conference Room	Conference Room	Conference Room	Conference Room	Conference Room	Conference Room
202B	300	303	304	402	403	404	405	406
1B	13A-I	6A-I	9A		5C-I		7A-I	4D-I
	13A-II	6A-II	9B		5C-II	4E	7A-II	4D-II
2D	1A	3A	4D-III	6B-I	5C-III		10A-I	4B-I
9C	14B-I	3C	4D-IV	6B-II	5B-I		7B-I	4B-II
9D	14B-II	3D	4D-V	6B-III	5B-II		7B-II	4B-III
4A-I	6B-IV	5B-III	12-I	4D-VI	8A-IV	10B-I	11A-1	8C
4C	6C-IV	5B-IV	12-II	4D-VII	8A-V	10B-II	11B-1	8E
4A-II	6C-V	13B		4C	8A-VI	10B-III	11B-1	
4C	11A-2	5D-I		4A-III	8B		10A-II	
4C	11A-2	5D-II		4A-IV			10A-III	

## Floor Plan

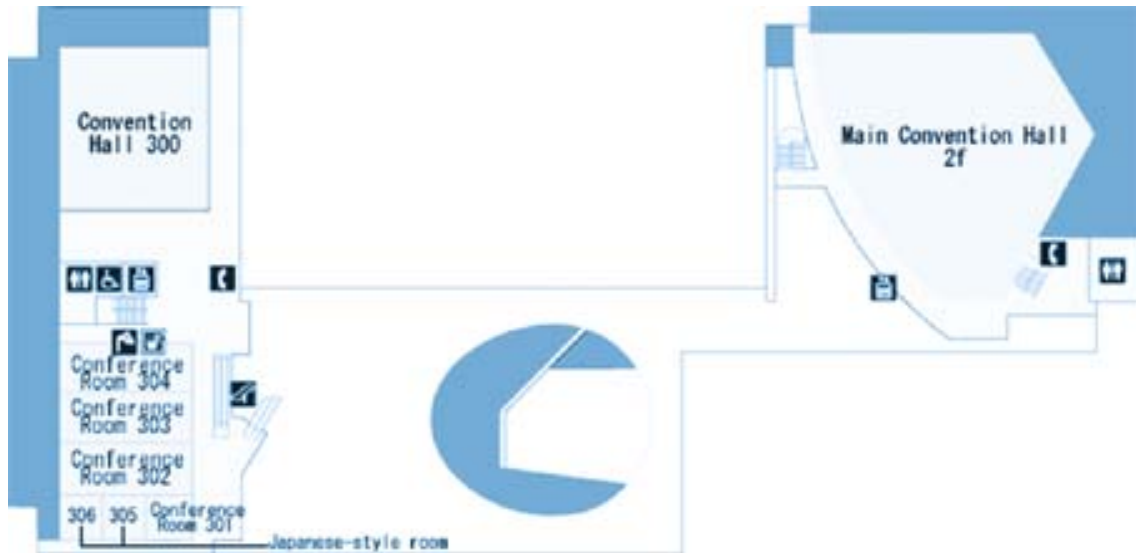
1F



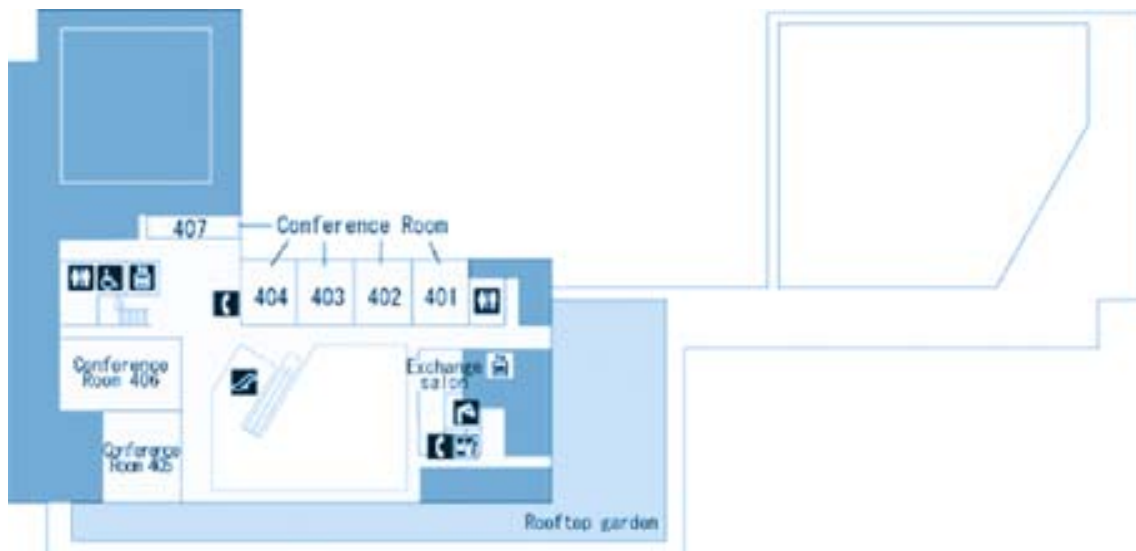
2F



3F



4F



## Program

Oct. 10, 9:00-9:30, Main Convention Hall

Welcom Address

- (No title)  
Mr. K. Ichihara (Tsukuba City)
- (No title)  
Prof. A. Serizawa (AESJ)

Oct. 10, 9:30-12:10, Main Convention Hall

Plenary I

- Dr. Harold F. McFarlane (INL),
- (No title)  
Dr. J. Grossenbacher (INL)
- (No title)  
Dr. B. R. Barre (ENS)
- (No title)  
Dr. S. Kondo (AEC)
- (No title)  
Mr. Y. Sokolov (IAEA)
- (No title)  
Prof. M. Xu (CEFR, CIAE)

Oct. 10, 13:30-18:10, 200

2B Panel Discussion; Asian research activities and their future

- Prof. K. Kanda (JEPI), Dr. Paul J. Fehrenbach (AECL)
- (No title)  
Dr. Y. H. Jung (KAERI)
- 511 Status and Prospects of Sustainable Nuclear Power Supply in China Mr. M. Xu (CIAE)
- (No title)  
Dr. B. Raj (IGCA)
- (No title)  
Dr. S. Soentono (BATAN)
- (No title)  
Dr. Nahrul Khair Alang Md. Rashid (MINT)
- (No title)  
Mr. T. Nagata (JAEA)

Oct. 10, 13:10-15:20, 201

5A UOX and MOX fuels technology advancement I

- Dr. A. V. Bychkov (RIAR), Mr. M. Morihira (JNC)
- 582 RIAR Experience on Application of Vibropacked Fuel in Fast Reactors  
Dr. A. Bychkov (RIAR), Dr. V. A. Kisly (RIAR), Mr. O. Shishalov (RIAR), Dr. O. Skiba (RIAR)
- 109 PIE results of comparative irradiation tests in HFR for sphere-pac fuel, pellet fuel and vipac Fuel  
Dr. M. Morihira (JNC), Mr. M. Nakamura (JNC), Dr. C. Hellwig (PSI), Dr. K. Bakker (NRG), Mr. T. Ozawa (JNC), Dr. G. Bart (PSI), Mr. Y. Kihara (JNC)
- 166 BELGONUCLEAIRE MOX fuel : a quality minded product.  
Mr. Y. Vanderborck (Belgonucleaire), Mr. E. Pelckmans (Belgonucleaire), Mr. M. De Vleeschhauwer (Belgonucleaire), Mr. C. Verheyen (Belgonucleaire), Mr. L. Mertens (Belgonucleaire)
- 578 RECYCLE OF VIBROPAC MOX-FUEL IN THE BOR-60 REACTOR  
Dr. A. Bychkov (RIAR), Dr. V. A. Kisly (RIAR), Mr. O. Shishalov (RIAR), Dr. F. Krukov (RIAR), Dr. D. Markov (RIAR), Dr. A. Novosylov (RIAR)

Oct. 10, 15:50-18:10, 201

5A UOX and MOX fuels technology advancement II

- Dr. A. V. Bychkov (RIAR), Mr. M. Morihira (JNC)

007 FUJI, an initial sintering comparison test for pelletized-, sphere-pac-and vipac-fast breeder reactor (FBR) mixed oxide (MOX) fuel.  
Dr. G. Bart (PSI), Dr. K. Bakker (NRG), Dr. C. Hellwig (PSI), Mr. Y. Kihara (JNC), Mr. T. Ozawa (JNC)

432 USING COATED KERNELS FUELS FOR BURNING PLUTONIUM IN A PWR ASSEMBLY  
Prof. E. M. Leite (CCTN), Prof. C. Lima (CCTN)

093 Application of mixed uranium-plutonium fuel and modified thorium-based fuel in light-water reactors for achieving high burn-up and non-proliferation of nuclear materials  
Dr. G. G. Kulikov (ISTC), Mr. E. G. Kulikov (MEPHI), Prof. A. N. Shmelev (MEPHI), Dr. V. A. Apse (MEPHI)

521 Option of dry process of LWR and FBR fuel  
Mr. O. Amano (TEPCO), Dr. P. Boczar (AECL), Dr. J. Sullivan (AECL), Dr. D. Dyck (AECL)

542 ADVANCED HIGH THROUGHPUT MOX FUEL FABRICATION TECHNOLOGY & SUSTAINABLE DEVELOPMENT  
Dr. J. Krellmann (MELOX)

Oct. 10, 13:10-15:20, 202A

8D Advancement in HLW and SF disposal I

- Prof. J. Ahn (UC Berkeley), Prof. Y. Inagaki (Kyushu U.)
- 563 Coupled geochemical/hydrogeological modelling to assess the origin of salinity at the Tono area (Japan)  
Dr. J. Guimera (ENVIROS), Dr. D. Arcos (ENVIROS), Mr. E. Ruiz (ENVIROS), Mr. M. Luna (ENVIROS), Mr. S. Jordana (ENVIROS), Dr. H. Saegusa (JNC)
- 018 Migration Behavior of Np(V) Ions and Np(V)-humic Acid Colloids through Quartz-packed Columns  
Dr. S. Nagasaki (U. Tokyo), Prof. S. Tanaka (U. Tokyo)
- 319 A DENSITY FUNCTIONAL THEORY STUDY ON REDOX REACTION OF ACTINIDES  
Dr. T. Toraishi (U. Tokyo), Mr. M. Kawaguchi (U. Tokyo), Prof. T. Tsuneda (U. Tokyo), Dr. S. Nagasaki (U. Tokyo), Prof. S. Tanaka (U. Tokyo)
- 504 Experimental study on long-term safety assessment considering uncertainties for geological disposal of radioactive wastes: JAERI status at 2005  
Dr. T. Yamaguchi (JAERI), Mr. Y. Sakamoto (JAERI), Mr. Y. Iida (JAERI), Ms. K. Negishi (JAERI), Mr. H. Taki (JAERI), Mr. M. Akai (JAERI), Ms. F. Jinno (JAERI), Mr. Y. Kimura (JAERI), Mr. M. Ueda (JAERI), Dr. T. Tanaka (JAERI), Dr. S. Nakayama (JAERI)

Oct. 10, 15:50-18:10, 202A

8D Advancement in HLW and SF disposal II

- Mr. E. Ruiz (Enviros Spain), Prof. Y. Niibori (Tohoku U.)
- 188 Linear Programming Approach for Modeling Solidification of HLW from ATW Fuel Cycle  
Mr. M. Cheon (UCB), Prof. J. Ahn (UCB)
- 306 Markov Chain Model for Particle Migration at the Repository Scale  
Mr. D. Kawasaki (UCB), Prof. J. Ahn (UCB), Prof. P. L. Chambre (UCB)
- 145 Uncertainty Analysis of Multiple Canister Repository Model by Earth Simulator  
Mr. K. Tsujimoto (MMC), Prof. J. Ahn (UCB)
- 245 Buffer Construction Technique by Means of Granular Bentonite  
Mr. R. Masuda (RWMC), Mr. H. Tada (RWMC), Mr. H. Asano (RWMC), Mr. T. Mori (Obayashi), Mr. T. Shimura (Obayashi), Mr. T. Matsuda (Obayashi), Mr. M. Uyama (Obayashi)

- 382 Remote Handling and Emplacement Technology for Waste Package and Buffer Material at HLW Repository - Feasibility Study on Transportation Techniques Employing Air-Bearing System for Pre-Assembled Package at Drift Tunnel-  
Ms. Y. Iwata (IHI), Mr. T. Yosida (IHI), Mr. T. Kanno (IHI), Mr. H. Tada (RWMC), Mr. R. Masuda (RWMC), Mr. H. Asano (RWMC), Mr. S. Nagao (CoTech), Mr. M. Fukui (CoTech)
- Oct. 10, 15:50-18:10, 202B  
1B Needs and roles of nuclear systems under global environmental demands  
Dr. J-M Delbecq (EDF), Prof. M. Saito (TITech)
- IL006 Invited Lecture: Long-term Energy Technology Development Strategy Planning  
Dr. M. Akai (AIST), Dr. M. Akiyama (IAE), Dr. K. Ashida (METI)
- 243 NUCLEAR SYSTEM FOR PROBLEMS OF ENVIRONMENT, ECONOMY, AND ENERGY (1) Nuclear Energy Role and Potential for Energy System in Asia  
Dr. H. Ujita (IAE), Dr. K. Matsui (IAE), Prof. H. Sekimoto (TITECH)
- 226 NUCLEAR SYSTEM FOR PROBLEMS OF ENVIRONMENT, ECONOMY, AND ENERGY (2) Nuclear System and Global Policy Of CO2 Emission Constraint  
Mr. K. Ikeda (MHI), Mr. M. Hatano (IAE), Mr. K. Aoki (ARTECH)
- 317 Development of analytical method of evaluation of best-mixed power generating systems reflecting public preferences and of willingness-to-pay for external values - For better social approval for the 'nuclear power' -  
Mr. K. Fukuda (Kyushu U.), Mr. N. Shikasho (Kyushu U.), Mr. T. Matsumoto (Kyushu U.), Dr. K. Morita (Kyushu U.)
- 005 Radiation and Environmental Safety  
Dr. B. C. Ekechukwu (UPM), Prof. M. B. Zohadie (U. Putra Malaysia)
- Oct. 10, 13:10-15:20, 300  
13A Latest Status on ongoing Fuel Cycle Optimization I  
Dr. K. Matsui (IAE), Dr. T. Abram (BNFL)  
The International Project on Innovative Nuclear Reactor and Fuel Cycle (INPRO)  
Mr. Y. A. Sokolov (IAEA)
- 588 Progress of the Generation IV Nuclear Energy System Development Project  
Mr. Y. Sagayama (JNC)
- 543 The Generation IV International Research Programme: The UK Contribution  
Mr. T. Abram (Nexia Solutions), Dr. T. Lennox (NNC)
- 592 Fuel cycle optimization: French industry experience with recycling, and perspectives  
Dr. P. Bernard (CEA)
- Oct. 10, 15:50-18:10, 300  
13A Latest Status on ongoing Fuel Cycle Optimization II  
Dr. K. Matsui (IAE), Dr. T. Abram (BNFL)
- 380 Feasibility Study on Commercialized Fast Reactor Cycle Systems (1) Current Status of the Phase-II Study  
Mr. Y. Sagayama (JNC)
- 388 Feasibility Study on Commercialized Fast Reactor Cycle Systems (2) Prospect of promising FR cycle concept and its deployment scenario  
Mr. R. Nakai (JNC), Mr. S. Fujii (JNC), Mr. K. Takakuma (JNC), Mr. A. Kato (JNC)
- 435 Feasibility Study on Commercialized Fast Reactor Cycle Systems / Current Status of the FR System Design  
Mr. S. Kotake (JNC), Mr. Y. Sakamoto (JNC), Mr. M. Ando (JNC)
- Oct. 10, 13:10-15:20, 303  
6A Evolutions of current PUREX reprocessing I  
Prof. K. Takeshita (TITech), Prof. K. L. Nash (Washington S. U.)
- IL009 Invited Lecture: Advanced and sustainable fuel cycles for innovative reactor systems  
Dr. J. Glatz (EC)
- 150 MOX reprocessing : the success of the first industrial campaign on UP2-800 COGEMA Plant  
Mr. J. Emin (COGEMA), Ms. A. Zimmermann (COGEMA), Ms. A. Tribout-maurizi (SGN), Mr. J. Dancausse (CEA)
- 375 WASTE MANAGEMENT EXPERIENCE DURING ALL THE LIFE CYCLE OF REPROCESSING FACILITIES FROM COMMISSIONING TILL DECOMMISSIONING : TO DAY'S SITUATION AND FUTURE TRENDS  
Mr. G. Decobert (COGEMA), Dr. J. Devezeaux (COGEMA), Mr. M. Maurin (COGEMA)
- 229 Spectrophotometric determination of Pu in high radioactive liquid waste of reprocessing plant  
Mr. S. Taguchi (JNC), Mr. N. Surugaya (JNC), Mr. S. Sato (JNC), Dr. T. Hiyama (JNC)
- Oct. 10, 15:50-18:10, 303  
6A Evolutions of current PUREX reprocessing II  
Dr. M. Ozawa (JNC),
- 396 A JNFL-COGEMA cooperation: a focus on the Uranium Test of the Rokkasho Mura Reprocessing Plant  
Mr. Jean-Paul Griffon (COGEMA Rokkasho), Mr. Yoshihiro Ohtou (JNFL)
- 397 Outline of Test Operation at Rokkasho Reprocessing Plant  
Mr. Kunio Fujita (JNFL), Mr. Hisato Komatsu (JNFL), Mr. Yoshihiro Ohtou (JNFL), Mr. Satoshi Yoshioka (JNFL),
- 398 Uranium Test on the Head-end Facility at Rokkasho Reprocessing Plant  
Mr. Takashi Hamada (JNFL), Mr. Hiroaki Yamaguchi (JNFL), Mr. Masatugu Hashizumi (JNFL), Mr. Shuji Kawabe (JNFL), Mr. Yoshiro Yamamoto (JNFL)
- 400 Uranium Test on the Separation Facility at Rokkasho Reprocessing Plant  
Mr. Tadahiro Iseki (JNFL), Mr. Naoki Takahashi (JNFL), Mr. Yuuji Tanaka (JNFL)
- 401 Uranium Test on the Purification Facility at Rokkasho Reprocessing Plant  
Mr. Takeshi Nitta (JNFL), Mr. Takashi Matsuda (JNFL)
- 402 Uranium Test on the Uranium denitration Facility at Rokkasho Reprocessing Plant  
Mr. Nobuyuki Arai (JNFL), Mr. Naoya Sakagami (JNFL), Mr. Shigeo Senoo (JNFL), Mr. Hiroshi Someya (Mitsubishi Material)
- 403 Chemical Test on the Vitrification Facility at Rokkasho Reprocessing Plant  
Mr. Yuji Takahashi (JNFL), Mr. Masahiro Yoshioka (JNFL), Mr. Hitoshi Muramoto (JNFL), Mr. Norio Kanehira (JNFL), Mr. Takaaki Oba (JNFL)
- 404 Remote Maintenance in the Vitrification Cell at Rokkasho Reprocessing Plant  
Mr. Yuji Takahashi (JNFL), Mr. Yutaka Akashi (JNFL), Mr. Naoyuki Koga (JNFL), Mr. Kazuyoshi Sudo (JNFL), Mr. Wataru Koizumi (JNFL)
- 405 Spent Solvent Treatment Process at Rokkasho Reprocessing Plant  
Mr. Munenori Saka (JNFL), Mr. Toshiyuki Araya (JNFL), Mr. Tomohiro Kitamura (JNFL), Mr. Toshiyuki Wakamatsu (JNFL), Mr. Akihiro Sasaki (JNFL)



- 406 Study of Analytical Method in the analysis Facility at Rokkasho Reprocessing Plant  
Mr. Kiyoshi Anzai (JNFL), Mr. Tomoyuki Hishi (JNFL), Mr. Yutaka Koiwa (JNFL)
- Oct. 10, 13:10-15:20, 304
- 9A Nuclear hydrogen production system development  
Dr. S. Herring (INL), Dr. T. Takeda (JAERI)
- IL008 Invited Lecture: THERMOCHEMICAL PRODUCTION OF HYDROGEN USING NUCLEAR HEAT: A SURVEY OF TECHNICAL AND ECONOMICAL ISSUES  
Dr. X. Vitart (CEA), Dr. P. Carles (CEA)
- 462 The Potential of Nuclear Reactors in Combined Heat and Power Applications  
Dr. K. Verfondern (FZ-Juelich), Dr. W. Von Lensa (FZ-Juelich), Dr. F. Alonso Zabalo (EA)
- 284 Analytical study on hydrogen dispersion in the HTGR Hydrogen Production System  
Dr. T. Nishihara (JAERI), Dr. H. Ohashi (JAERI), Mr. T. Murakami (JAERI), Dr. Y. Inagaki (JAERI)
- Oct. 10, 15:50-18:10, 304
- 9B Nuclear hydrogen production technologies  
Dr. K. Verfondern (FZJ), Dr. T. Nishihara (JAERI)
- 501 HIGH-TEMPERATURE ELECTROLYSIS FOR HYDROGEN PRODUCTION USING NUCLEAR ENERGY  
Dr. J. S. Herring (INL), Dr. J. E. O'brien (INL), Dr. C. M. Stoots (INL), Mr. G. L. Hawkes (INL), Mr. J. J. Hartvigsen (Ceramatec, Inc.)
- 097 The Hybrid Sulfur Cycle for Nuclear Hydrogen Production  
Dr. W. A. Summers (SRNL), Dr. M. B. Gorensenk (SRNL), Dr. M. R. Buckner (SRNL)
- 474 A Bench Scale Hydrogen Production Test by the Thermochemical Water-splitting Iodine-Sulfur Process  
Mr. S. Kubo (JAERI), Dr. K. Onuki (JAERI), Dr. R. Hino (JAERI)
- 427 Development of Hydrogen Production Technology by Thermo-Chemical Water Splitting IS Process  
Mr. A. Terada (JAERI), Mr. S. Kubo (JAERI), Mr. H. Okuda (JAERI), Mr. S. Kasahara (JAERI), Mr. N. Tanaka (JAERI), Mr. J. Iwatsuki (JAERI), Mr. H. Ota (JAERI), Dr. S. Ishikura (JAERI), Dr. K. Onuki (JAERI), Dr. R. Hino (JAERI)
- Oct. 10, 13:10-15:20, 403
- 5C Material advancement I  
Prof. T. R. Allen (U. Wisconsin), Mr. T. Kaito (JNC)
- IL001 Invited Lecture: Corrosion and Radiation Response of Advanced Ferritic-Martensitic Steels for Generation IV Application  
Prof. T. Allen (U. Wisconsin), Dr. L. Tan (U. Wisconsin), Dr. Y. Chen (U. Wisconsin), Dr. K. Sridharan (U. Wisconsin), Mr. X. Ren (U. Wisconsin), Mr. M. Machut (U. Wisconsin), Dr. J. Gan (INL), Mr. G. Gupta (U. Michigan), Dr. G. S. Was (U. Michigan), Dr. E. A. Kenik (ORNL), Dr. S. Ukai (JNC)
- 043 Development of ODS ferritic steel cladding for the advanced fast reactor fuels  
Mr. T. Kaito (JNC), Dr. S. Ukai (JNC), Dr. S. Ohtsuka (JNC), Mr. T. Narita (JNC)
- 558 Corrosion behavior of F/M steels and high Ni alloys in a supercritical water  
Dr. S. S. Hwang (KAERI), Mr. B. H. Lee (KAERI), Dr. J. Jang (KAERI)
- 196 M5TM ALLOY HIGH BURNUP BEHAVIOR AND WORLDWIDE LICENSING  
Mr. J. Mardon (FRAMATOME ANP), Ms. P. Hoffmann (FRAMATOME ANP), Mr. G. Garner (FRAMATOME ANP)
- Oct. 10, 15:50-18:10, 403
- 5C Material advancement II  
Prof. T. R. Allen (U. Wisconsin), Mr. T. Kaito (JNC)
- 033 Handbook on Heavy Liquid Metal Technology prepared in the frame of the OECD/NEA Working Party on Fuel Cycle  
Dr. C. Fazio (FZK), Dr. B. Na (OECD)
- 366 High Burnup Fuel Cladding Materials R&D --Nano-sized oxide dispersion strengthening steels--  
Prof. A. Kimura (Kyoto U.), Mr. H. Cho (Kyoto U.), Mr. N. Toda (Kyoto U.), Dr. R. Kasada (Kyoto U.), Dr. H. Kishimoto (Kyoto U.), Dr. N. Iwata (Kyoto U.), Dr. S. Ukai (JNC), Dr. M. Fujiwara (KOBELCO)
- 228 Development of LBE Loop (HELIOS) for Advanced Materials Studies  
Mr. S. H. Chang (SNU), Mr. S. Jeong (SNU), Prof. I. Hwang (SNU)
- 419 Corrosion and Stress Corrosion Cracking of Candidate Alloys for Supercritical Water-cooled Reactors  
Prof. T. Allen (U. Wisconsin), Dr. G. S. Was (U. Michigan)
- 466 Microstructure Engineering for Improved Intergranular Stress Corrosion Cracking Resistance of Stainless Steels.  
Dr. J. Marrow (U. Manchester), Mr. D. Engelberg (U. Manchester), Dr. A. Jivkov (U. Manchester), Dr. L. Babout (U. Manchester), Dr. N. Stevens (U. Manchester), Dr. P. Wood (U. Manchester), Ms. L. Li (U. Manchester), Dr. M. Preuss (U. Manchester), Dr. M. Kuroda (U. Manchester), Mr. J. Duff (U. Manchester), Dr. K. Govender (U. Manchester), Prof. A. Sherry (U. Manchester)
- Oct. 10, 15:50-18:10, 404
- 4E Non-classical reactor concepts; Molten Salt Reactor  
Dr. M. Ichimiya (JNC), Dr. Ludovic Mathieu (LPSC Grenoble)
- 089 Performances of a 200MWe Molten-Salt Reactor Operated in Thorium-Uranium Fuel-Cycle  
Prof. K. Mitachi (TUT), Dr. T. Yamamoto (TUT), Dr. R. Yoshioka (TUT)
- 133 Development of simulation tools for on-line reprocessing of the Molten Salt Reactor concept  
Dr. E. Walle (EDF), Dr. N. Simon (CEA), Ms. A. Huguet (EDF), Dr. O. Gastaldi (CEA), Mr. T. Penit (CEA)
- 428 Molten Salt Reactor: New Studies of the Core  
Mr. L. Mathieu (LPSC), Dr. D. Heuer (LPSC), Dr. A. Billebaud (LPSC), Prof. R. Brissot (LPSC), Dr. C. Le Brun (LPSC), Prof. E. Liatard (LPSC), Prof. J. Loiseaux (LPSC), Dr. O. Meplan (LPSC), Dr. E. Merle-lucotte (LPSC), Dr. A. Nuttin (LPSC), Dr. C. N. Garzenne (EDF), Dr. D. Lecarpentier (EDF), Dr. E. Walle (EDF)
- Oct. 10, 13:10-15:20, 405
- 7A P&T system I  
Mr. Inoue (CRIEPI), Mr. Warin (CEA)
- 163 ASSESSING THE ENVIRONMENTAL AND HEALTH IMPACT OF THE NUCLEAR FUEL CYCLE: METHODOLOGY AND APPLICATION TO PROSPECTIVE ACTINIDES RECYCLING OPTIONS  
Dr. C. N. Garzenne (EDF), Mr. J. Grouiller (CEA), Dr. D. Le-boulch (EDF), Dr. V. Moulin (CEA), Dr. P. Chino (ANDRA), Dr. J. Devezeaux (COGEMA), Dr. P. Devin (COGEMA), Dr. M. Lacam (COGEMA), Dr. B. Carlier (FRAMATOME ANP), Dr. M. Viala (IPPE), Dr. L. Leyval (CEA)
- 040 Intercomparison of Systems for TRU Recycling at Equilibrium  
Dr. M. Salvatores (CEA), Ms. C. Chabert (CEA), Prof. I. Slessarev (CEA), Mr. G. Youinou (CEA)

- 266 Parametric Survey on Possible Impact of Partitioning and Transmutation of High-level Radioactive Waste  
Dr. H. Oigawa (JAERI), Dr. N. Takaki (NMCC), Dr. T. Ikeda (JGC), Dr. T. Yokoo (CRIEPI), Dr. M. Takeuchi (NUMO), Dr. S. Nakayama (JAERI), Mr. K. Ikeda (MHI), Dr. Y. Morita (JAERI), Dr. M. Kamoshida (Hitachi), Dr. T. Inoue (CRIEPI), Dr. M. Ozawa (JNC), Dr. R. Fujita (Toshiba)
- Oct. 10, 15:50-18:10, 405  
7A P&T system II  
Mr. Inoue (CRIEPI), Mr. Warin (CEA)
- 496 Repository Impact of Limited Actinide Recycle  
Dr. R. A. Wigeland (ANL), Dr. T. H. Bauer (ANL), Dr. R. N. Hill (ANL), Dr. J. A. Stillman (ANL)
- 308 Systems Studies of Actinide Partitioning-Transmutation Recycle Methods  
Mr. E. D. Collins (ORNL), Mr. J. Renier (ORNL)
- 189 Expansion of Yucca Mountain Repository Capacity by ATW Fuel Cycle  
Mr. M. Cheon (UCB), Prof. J. Ahn (UCB)
- Oct. 10, 13:10-15:20, 406  
4D LMFR advanced design I; Development Program  
Dr. M. Ichimiya (JNC), Dr. C. Latge (CEA)
- 531 Invited Lecture: A Case for Small Modular Fast Reactor  
Dr. Y. Chang (ANL), Dr. M. Konomura (JNC), Mr. P. Lo Pinto (CEA)
- 437 Invited Lecture: Design Concept of KALIMER-600  
Dr. D. Hahn (KAERI), Mr. Y. Kim (KAERI), Dr. S. Kim (KAERI), Dr. J. Lee (KAERI), Dr. Y. Lee (KAERI)
- Invited Lecture: Design and Development of Sodium Cooled Fast Breeder Reactors in India  
Dr. Raj ()
  - Invited Lecture: (No title)  
Mr. V. Ivanov (DUMA)
- Oct. 10, 15:50-18:10, 406  
4B Evolutional and supercritical water cooled reactors I; SCWR-Reactor Design -I  
Prof. T. Schulenberg (INET), Prof. S. Koshizuka (U. Tokyo)
- 020 Supercritical Water-Cooled Pressure Channel Nuclear Reactors: Review and Status  
Dr. I. L. Pioro (AECL), Dr. R. B. Duffey (AECL), Dr. H. F. Khartabil (AECL)
- 239 Invited Lecture: Research and Development of Supercritical Water-Cooled Reactor (SCWR) in Japan  
Mr. K. Yamada (Toshiba), Prof. Y. Oka (U. Tokyo)
- 463 Conceptual Design of Indirect-Cycle, Natural Circulation Cooling Supercritical Water Reactor for Hydrogen Production  
Dr. K. Kitou (Hitachi), Mr. Y. Ishii (Hitachi)
- 246 Composite Core Design of High Power Density Supercritical Water Cooled Fast Reactor  
Mr. J. Yoo (U. Tokyo), Prof. Y. Oka (U. Tokyo), Prof. J. Liu (U. Tokyo)
- Oct. 11, 8:30-10:50, Main Convention Hall  
11A "Plenary Panel I; Proliferation Prevention in the Next Nuclear Era--Learning from the Past and Preparing for the Future organized by SCNN/ANS"  
Moderators; Mel Buckner ( USA - Savannah River National Laboratory), Immediate Past Chair of SCNN, and Tom Sanders (USA - Sandia National Laboratories), Chair of the SCNN.
- (No title)  
Dr. S. Eisenhower (Eisenhower Inst.)
  - (No title)  
Dr. J. Tuck (Baker, Donelson, Bearman, & Caldwell)
- (No title)  
Dr. J. S. Paul (DOE)
  - (No title)  
Dr. L. E. Shephard (SNL)
  - (No title)  
Dr. T. Kawata (JNC)
  - (No title)  
Dr. E. P. Velikhov (Kurchatov Inst.)
  - (No title)  
Dr. J. Bouchard (CEA)
- Oct. 11, 11:00-12:50, 200  
15B Available research resources  
Dr. Harold F. McFarlane (INL), Mr. T. Nishimura (CRIEPI)
- 147 The Neutron Data Measurement Facilities at EC-JRC-IRMM  
Dr. F. Hamsch (EC)
- 343 BTC the UK Focus for Nuclear Fission R&D  
Dr. G. Fairhall (Nexia Solutions), Dr. R. Taylor (Nexia Solutions)
- 533 Capabilities and Facilities available at the Advanced Test Reactor to Support Development of the Next Generation Reactors  
Mr. S. B. Grover (INL), Mr. R. V. Furstenuau (U.S. Dept. Energy)
- 569 Towards a nuclear energy technology roadmap: new service to the nuclear community  
Dr. L. G. Van Den Durlpel (LISTO), Mr. C. C. Thomas (Strateva)
- Oct. 11, 14:10-16:00, 200  
11B-2 Surplus Weapons Plutonium Disposition and Utilization Program  
Mr. K. Aratani (JNC), Dr. A. Chebeskov (IPPE)
- 570 Russian Weapon Plutonium Disposition in VVER-1000 reactors  
Dr. N. Ponomarev-stepnoi (Kurchatov Institute), Dr. A. M. Pavlovichev (Kurchatov Institute), Dr. Y. A. Styrin (Kurchatov Institute)
- 577 Weapons Plutonium Effective Utilization in BN-600 Fast Neutron Reactor with Vibropacked MOX-Fuel.  
Prof. V. M. Poplavskiy (IPPE), Dr. A. N. Chebeskov (IPPE), Dr. V. I. Matveev (IPPE), Dr. B. A. Vasiliev (OKBM), Mr. O. V. Mishin (OKBM), Mr. M. R. Farakshin (OKBM), Prof. A. A. Mayorshin (RIAR), Dr. A. Bychkov (RIAR), Dr. V. A. Kisly (RIAR), Mr. N. Uto (JNC), Mr. K. Sugino (JNC), Mr. T. Mizuno (JNC), Mr. N. Kawata (JNC), Mr. T. Funada (JNC), Mr. K. Aratani (JNC)
- 583 Demonstration experiment of 3 BN-600 MOX vibropac FAs irradiation for the excess weapons plutonium disposal  
Dr. A. Bychkov (RIAR), Dr. V. A. Kisly (RIAR), Mr. O. Shishalov (RIAR), Dr. A. Grachev (RIAR), Dr. O. Skiba (RIAR), Dr. A. Novosylov (RIAR), Dr. V. Tsykanov (RIAR), Dr. V. Ivanov (RIAR), Dr. A. Osipenko (RIAR), Dr. F. Kryukov (RIAR), Dr. V. Smirnov (RIAR), Dr. V. Dvoretzky (RIAR), Dr. N. Oshkanov (BNPP), Dr. V. Maltsev (BNPP), Dr. V. Vasil'ev (OKBM), Mr. T. Asaga (JNC), Mr. T. Ishii (JNC), Mr. K. Maeda (JNC)
- 116 Economic Efficiency of Fast Neutron Reactor Use for Surplus Ex-Weapons Plutonium Disposition in Developing Nuclear Power of Russia  
Prof. A. V. Zrodnikov (IPPE), Prof. V. M. Poplavskiy (IPPE), Dr. V. Usanov (IPPE), Dr. A. N. Chebeskov (IPPE), Ms. L. N. Reshetnikova (IPPE)
- 333 Gas Turbine - Modular Helium Reactor Design, Technology and Applications  
Mr. M. P. Labar (GA), Dr. A. Shenoy (GA), Dr. N. G. Kodochigov (OKBM)
- Oct. 11, 16:30-18:20, 200  
11B-2 Panel Discussion; Surplus Weapons Plutonium Disposition and Utilization Program

Mr. K. Aratani (JNC), Dr. A. Chebeskov (IPPE)  
Senator Domenici (the US Senate) Video Message

- Current Status and Future Prospect of the US Plutonium Disposition Program  
Dr. R. Boudreau (DOE/NNSA)
- The Program of Russian Federation  
Dr. V. Ivanov (Russian Federation)
- French Perspective  
Dr. B. Sicard (CEA)
- Comment from Japanese MOX Experience  
Mr. T. Kawata (JNC)

Oct. 11, 11:00-12:50, 201

6C Reprocessing advancement on pyrochemical processing I  
Dr. Uhlir (NRI), Dr. Minato (JAERI)

IL011 Invited Lecture: Application of Advanced Head End Reprocessing Concepts to a Fluoride Volatility Flowsheet

Mr. L. D. Trowbridge (ORNL), Dr. G. D. Del Cul (ORNL), Mr. E. D. Collins (ORNL)

395 Adsorption of Plutonium Fluoride with Uranyl Fluoride Trap -Development of FLUOREX Process as a Progressive LWR Reprocessing System-  
Dr. A. Sasahira (Hitachi), Dr. Y. Kani (Hitachi), Dr. F. Kawamura (Hitachi), Dr. K. Hoshino (Hitachi), Mr. K. Iino (Hitachi), Mr. O. Amano (TEPCO)

493 Application of Fluoride Volatility to the Recycling of LWR Spent Fuel into CANDU  
Dr. G. R. Dyck (AECL), Dr. T. Mochida (Hitachi), Dr. T. Fukasawa (Hitachi)

458 Application of Ionic Liquids to Pyrochemical Reprocessing Methods - Electrochemical Properties of Uranyl Ion in Ionic Liquids -  
Dr. N. Asanuma (TITECH), Dr. M. Harada (TITECH), Mr. Y. Yasuike (IRI), Dr. M. Nogami (IRI), Dr. K. Suzuki (IRI), Prof. Y. Ikeda (TITEC)

Oct. 11, 14:10-16:00, 201

6C Reprocessing advancement on pyrochemical processing II

Dr. Goff (INL), Mr. Myochin (JNC),

075 THERMODYNAMIC ASSESSMENT OF NUCLEAR FUEL PYROCHEMICAL REPROCESSING  
Dr. S. Delpech (CNRS), Dr. G. Picard (CNRS)

148 Study of minor actinide recovery process for the Oxide Pyro-process  
Dr. T. Kobayashi (JNC), Mr. M. Myochin (JNC), Dr. K. Mizuguchi (JNC)

199 A study on Fission Products removal by the dry pyrochemical technique for the fuel decladding  
Mr. Y. Kosaka (NDC), Mr. H. Kitao (NDC), Mr. K. Itoh (NDC), Mr. Y. Mori (ARTECH), Mr. O. Amano (TEPCO)

348 Electrochemical reduction of lanthanum from aqueous solution  
Dr. O. Shirai (Kyoto U.), Mr. T. Nagai (Kyoto U.), Dr. A. Nagai (Kyoto U.), Dr. T. Fujii (Kyoto U.), Prof. H. Yamana (Kyoto U.)

Oct. 11, 16:30-18:20, 201

6C Reprocessing advancement on pyrochemical processing III

Mr. Benedict(INL), Prof. Shirai(Kyoto U.)

048 A new electrolyzer for pyrochemical process studies  
Dr. G. De Angelis (ENEA), Dr. E. Baicchi (ENEA)

364 Pyrochemical Treatment of Spent Nuclear Fuel  
Dr. M. K. Goff (INL), Dr. K. L. Howden (INL), Mr. G. M. Teske (INL), Mr. T. A. Johnson (INL)

440 Integrated experiments to demonstrate electrometallurgical pyroprocessing of oxide fuels and metal fuels

Dr. T. Koyama (CRIEPI), Mr. T. Hijikata (CRIEPI), Dr. T. Usami (CRIEPI), Mr. S. Kitawaki (JNC), Mr. T. Shinozaki (JNC), Mr. M. Fukushima (JNC)

058 Studies on the separation factor of cerium in the electrorefining of (U,Ce)O<sub>2</sub> using molten MgCl<sub>2</sub>-NaCl-KCl as electrolyte

Mr. T. Subramanian (IGCAR), Dr. P. Bandi (IGCAR), Ms. S. Vandarkuzhali (IGCAR), Mr. P. Venkatesh (IGCAR), Dr. S. Nagarajan (IGCAR), Mr. G. Seenivasn (IGCAR), Mr. S. Ghosh (IGCAR), Dr. K. Nagarajan (IGCAR), Dr. V. Polur (IGCAR)

Oct. 11, 11:00-12:50, 202A

8A Optimization in management and treatment of radioactive wastes including HLW, ILW, LLW, TRU and other waste I

Dr. M. Tsukamoto (CRIEPI), Dr. M. Lindberg (Studsvik Nuclear AB)

107 Development of Nondestructive Detection Method for Long-Life  $\beta$  Nuclides Using Bremsstrahlung Photons  
Prof. K. Ishibashi (Kyushu U.), Dr. N. Shigyo (Kyushu U.), Dr. H. Arima (Kyushu U.), Mr. M. Fukumoto (JNC), Mr. Y. Miyamoto (JNC), Dr. M. Uematsu (Toshiba), Mr. Y. Yoshimura (Toshiba), Mr. M. Sato (Toshiba), Mr. T. Goto (Toshiba), Mr. N. Yoshida (Toshiba), Dr. O. Sato (MRI)

303 A Fast Neutron Detector for Nuclear Waste Characterization

Dr. S. Boyer (CEA), Dr. H. Safa (CEA), Mr. S. Aune (CEA), Dr. E. Berthoumieux (CEA), Mr. E. Delagnes (CEA), Dr. J. Pancin (CEA), Dr. E. Pollacco (CEA), Ms. V. Macary (CEA)

445 Alpha Radioactivity Measurement based on Ionized Air Transport Technology (AMAT) - Evaluation of Ion Transport Efficiency by Computational Fluid Dynamics (CFD) -

Mr. N. Sakai (Toshiba), Dr. Y. Hirata (Toshiba), Mr. A. Sano (Toshiba), Mr. M. Izumi (Toshiba), Prof. K. Nanbu (Tohoku U.), Mr. Y. Miyamoto (JNC), Mr. O. Suto (JNC)

484 Alpha Radioactivity Measurement based on Ionized Air Transportation Technology (AMAT) - Evaluation of Measurement Performance -

Mr. Y. Miyamoto (JNC), Mr. O. Suto (JNC), Mr. M. Izumi (Toshiba), Mr. A. Sano (Toshiba), Dr. S. Naito (Toshiba), Dr. Y. Hirata (Toshiba), Mr. M. Sato (Toshiba), Prof. K. Nanbu (Tohoku U.), Prof. H. Takahashi (U. Tokyo)

Oct. 11, 14:10-16:00, 202A

8A Optimization in management and treatment of radioactive wastes including HLW, ILW, LLW, TRU and other waste II

Dr. A. Bruggeman (SCK-CEN), Prof. S. Sato (Hokkaido U.)

125 DECONTAMINATION OF METALS, FABRICS AND SOILS IN LIQUID CO<sub>2</sub>

Dr. A. Shadrin (KRI), Dr. A. A. Murzin (KRI), Mr. V. A. Kamachev (KRI), Mr. D. N. Shafikov (KRI), Mr. V. V. Bondin (MCC), Mr. S. I. Bychkov (MCC), Mr. I. G. Efremov (MCC)

017 STUDY ON RECLAMATION OF THE LOW RADIOACTIVE WASTE BY CHEMICAL PROCESSES  
Prof. T. Dovbysheva (BNTU)

209 Cementification for radioactive waste including high concentration sodium sulfate and high concentration radioactive nuclide.

Mr. S. Miyamoto (Toshiba), Mr. T. Sato (Toshiba), Mr. M. Sasoh (Toshiba), Mr. J. Sakurai (Toshiba), Mr. T. Takada (Toshiba)

Oct. 11, 16:30-18:20, 202A

8A Optimization in management and treatment of radioactive wastes including HLW, ILW, LLW, TRU and other waste III

- Dr. L. Rao (LBNL), Dr. S. Nakayama (JAERI)
- 420 Invited Lecture: Vitrification of nuclear power plant wastes in a cold crucible melter : from R&D to implementation  
Dr. T. Flament (SGN), Mr. P. Labbe (SGN), Mr. J. Y. Guyard (SGN), Dr. M. Song (KHNP), Mr. S. Shin (KHNP), Mr. S. Maeng (KHNP), Mr. Y. Yu (HYUNDAI), Mr. C. Lee (HYUNDAI), Dr. C. Ladirat (CEA)
- 012 Optimizing the redox state of nuclear containment glass to enhance the process and material performance  
Mr. O. Pinet (CEA), Mr. J. Cachia (CEA), Ms. S. Schuller (CEA), Dr. X. Deschanel (CEA)
- 230 Immobilisation of Radioactive Waste in Geopolymers  
Dr. E. Vance (ANSTO), Mr. D. S. Perera (ANSTO), Mr. Z. Aly (ANSTO), Mr. M. Blackford (ANSTO), Mr. Y. Zhang (ANSTO), Mr. K. S. Finnie (ANSTO), Mr. M. Rowles (ANSTO), Mr. J. V. Hanna (ANSTO), Mr. K. J. Pike (ANSTO), Mr. J. Davis (ANSTO), Mr. O. Uchida (ANSTO)
- 249 A Flexible Process for the Immobilisation of Plutonium Containing Wastes  
Mr. C. R. Scales (Nexia Solutions), Dr. E. R. Maddrell (Nexia Solutions), Mr. N. Gawthorpe (Nexia Solutions), Dr. B. D. Begg (ANSTO), Mr. S. Moricca (ANSTO), Dr. R. A. Day (ANSTO)
- Oct. 11, 11:00-12:50, 202B
- 2D Evaluation of nuclear energy utilization and fuel cycle  
Dr. H. Mochizuki (JNC), Dr. Jean-Michel Delbecq (EDF)
- 026 CONVERGION OF TAJOURA CRITICAL FACILITY AND RESEARCH REACTOR FROM HEU TO LEU FUEL  
Dr. O. A. Abulgasem (TNRC), Dr. F. A. Abuatweirat (TNRC)
- 299 Requirements to fuel burn up and fission products extraction level for systems of reactors, integrated into closed fuel cycle  
Dr. P. N. Alekseev (Kurchatov Institute), Dr. A. A. Dudnikov (Kurchatov Institute), Dr. S. A. Subbotin (Kurchatov Institute)
- 492 Study and Develop on Advanced Nuclear Power Plant Evaluation System  
Mr. Q. Zhang (Tsinghua U.), Prof. Z. Zhou (Tsinghua U.), Prof. S. Zhu (Tsinghua U.)
- Oct. 11, 14:10-16:00, 202B
- 9C Nuclear hydrogen production technologies  
Dr. H. Karasawa (Hitachi),
- 135 Development of the thermochemical and electrolytic hybrid hydrogen production process for sodium cooled FBR  
Mr. T. Nakagiri (JNC), Dr. T. Kase (JNC), Mr. S. Kato (JNC), Dr. K. Aoto (JNC)
- 190 Conceptual Designs for MHR-Based Hydrogen Production Systems  
Dr. M. Richards (GA), Dr. A. Shenoy (GA), Dr. K. Schultz (GA), Dr. L. Brown (GA), Mr. E. Harvego (INL), Mr. F. Okamoto (Fuji Electric Systems), Mr. N. Handa (Toshiba)
- 252 EXPERIMENTAL RESULTS OF START-UP AND SHUTDOWN TEST ON HTTR HYDROGEN PRODUCTION SYSTEM USING MOCK-UP TEST FACILITY  
Dr. K. Hayashi (JAERI), Dr. H. Ohashi (JAERI), Mr. N. Morisaki (JAERI), Mr. Y. Inaba (JAERI), Dr. Y. Inagaki (JAERI)
- Oct. 11, 16:30-18:20, 202B
- 9D Expanded nuclear application systems  
Dr. K. Hayashi (JAERI),
- 536 Non-Electrical CANDU Applications  
Mr. J. M. Hopwood (AECL), Dr. S. Kuran (AECL), Ms. X. Zhou (AECL)
- 467 Storage and Hydrogen Production Usage of Recycle Materials in the Flexible Fuel Cycle Initiative  
Dr. H. Karasawa (Hitachi), Mr. K. Shiina (Hitachi), Dr. A. Sasahira (Hitachi), Dr. K. Hoshino (Hitachi)
- 212 Electrochemical properties of Tc and Re deposits on Pt electrode  
Dr. M. Ozawa (JNC), Dr. K. Mizuguchi (Toshiba), Mr. A. Kawabe (Toshiba), Dr. R. Fujita (Toshiba), Mr. Y. Sumida (Toshiba)
- 325 Deployment Scenario of GTHT300 Cogeneration System  
Dr. T. Takeda (JAERI), Dr. T. Nishihara (JAERI), Dr. K. Kunitomi (JAERI)
- Oct. 11, 11:00-12:50, 300
- 1A Sustainability criteria for nuclear energy including resource perspectives  
Prof. Moriyama (Kyoto U.), Dr. Laszlo Sagi (KFKI)
- IL003 Invited Lecture: Summary of IAEA Technical Meeting on Fissile Material Strategies for Sustainable Nuclear  
Dr. C. Ganguly (IAEA), Dr. K. Koyama (IAEA)
- IL005 Invited Lecture: Perspective on the French closed fuel cycle: open towards energy future and sustainability  
Dr. B. Tinturier (EDF), Dr. M. Debes (EDF), Dr. J. Delbecq (EDF)
- 449 Sustainable Nuclear Power for the Future: General Atomic MHR  
Dr. E. M. Campbell (GA), Dr. F. Venneri (GA), Dr. K. Schultz (GA), Dr. D. W. Mceachern (GA), Dr. A. Shenoy (GA)
- 547 Key issues in nuclear fuel cycle concerning high burn-up strategy  
Prof. S. N. Sato (Hokkaido U.), Dr. Y. Inagaki (Kyushu U.), Dr. T. Iwasaki (Tohoku U.), Dr. T. Ohe (Tokai U.), Dr. K. Kato (TEPCO), Dr. S. Torikai (IAE), Dr. Y. Niibori (Tohoku U.)
- Oct. 11, 14:10-16:00, 300
- 14B Public perception education and challenges for avoiding nuclear terrorism I  
Dr. T. Sawada (TITech), Prof. Hawkins (LANL)
- 030 Education and Research under the Aspect of Public Perception in Germany  
Dr. P. Fritz (FZK)
- 339 Challenges and Opportunities in the New Nuclear Age  
Prof. H. T. Hawkins (LANL)
- 566 NUCLEAR ENERGY: SOCIAL ASPECTS  
Ms. E. Komleva (UNU)
- 168 Damage Mechanism of Terrific Activities for Nuclear Installations and Measures of Keeping a lookout for Terrific Activities from Nuclear Installations  
Prof. M. Yang (NEPA), Ms. X. Yang (Tsinghua U.)
- Oct. 11, 16:30-18:20, 300
- 14B Public perception education and challenges for avoiding nuclear terrorism II  
Dr. T. Sawada (TITech), Prof. Hawkins (LANL)
- 552 Protection of new and Innovative NPPs Against Sabotage  
Dr. A. Gurpinar (IAEA)
- 589 The Activities of the Nuclear Emergency Assistance and Training Center -Initiatives about Technical Assistance during Nuclear Emergency and Strengthening Co-operation with Parties in Normal Circumstances-  
Mr. F. Watanabe (JNC)
- Oct. 11, 11:00-12:50, 303
- 3A Experiences and evolutions of present fuel cycle systems  
Mr. N. Nakae (JNC), Ms. N. Chauvin (CEA)
- 464 The Reprocessing plant of the future : AREVA viewpoint  
Mr. R. Voinche (COGEMA), Mr. F. Drain (SGN), Mr. G. Foare (SGN)

- 192 Directions of the closed nuclear fuel cycle development for BN-800 fast reactor  
Mr. M. I. Solonin (A.A.Bochvar Institute), Mr. I. I. Konovalov (A.A.Bochvar Institute), Mr. V. V. Inozemtsev (A.A.Bochvar Institute)
- Oct. 11, 14:10-16:00, 303
- 3C Fundamental researches for future innovation of nuclear systems  
Mr. M. Ozawa (JNC), Mr. M. I. Solonin (Russia)
- 077 Recent advances in gamma heating measurement in full MOX cores using TLD technique: the ADAPh programme  
Dr. P. D. Blaise (CEA), Dr. H. Serviere (CEA), Mr. A. Roche (CEA), Dr. P. Fougeras (CEA)
- 473 One layer model distribution of dissolved impurities in flow boiling  
Mr. G. Jahanfarnia (Azad U.)
- 082 Extending the life of PWR with coated particle fuel by using thorium and plutonium  
Mr. I. Tanihira (Hokkaido U.)
- Oct. 11, 16:30-18:20, 303
- 3D Thorium fuel utilization  
Prof. I. Tanihira (Hokkaido U.), Mr. L. V. D. Durpel (ANL)
- 132 Plutonium incineration and uranium-233 production in thorium fueled Light Water Reactors: A neutronic study for a versatile and sustainable nuclear future.  
Mr. F. Michel-sendis (IPNO), Dr. J. N. Wilson (IPNO), Dr. S. David (IPNO), Dr. O. Meplan (LPSC), Dr. A. Nuttin (LPSC), Mr. O. Laulan (LPSC)
- 136 Fuel Cycle Cost Analysis of the Recycling Thorium CANDU Reactor  
Dr. H. Choi (KAERI), Dr. C. Park (KAERI)
- 509 DESIGN STUDY OF THORIUM CYCLE BASED TIGHT LATTICE LONG LIFE BWR  
Dr. S. R. Eka (ITB), Dr. S. Zaki (ITB)
- 510 Neutronic Study Design of Small Long-live PWR with (Th,U)O<sub>2</sub> Fuel  
Dr. S. Topan (ITB), Dr. S. M. Nurul (ITB), Dr. Y. Astuti (ITB), Dr. S. Zaki (ITB)
- Oct. 11, 11:00-12:50, 304
- 4D LMFR advanced design II; Development Program & Knowledge Preservation  
Dr. M. Konomura (JNC), Dr. D Hahn (KAERI)
- 068 Progress on the Plant Design Concept of Sodium-Cooled Fast Reactor  
Mr. M. Hishida (JNC), Mr. T. Murakami (JAPC), Dr. M. Konomura (JNC), Mr. M. Toda (MHI)
- 535 Supercritical CO<sub>2</sub> Brayton Cycle for SFR : Na-CO<sub>2</sub> interaction and consequences on design and operation  
Dr. C. Latge (CEA), Mr. G. Rodriguez (CEA)
- 546 Knowledge Preservation in the UK: Fast Reactor Experience  
Mr. K. Hesketh (Nexia Solutions), Dr. T. Lennox (NNC)
- Oct. 11, 14:10-16:00, 304
- 4D LMFR advanced design III; Sodium Fast Reactor Technology  
Mr. T. Mizuno (JNC), Mr. T. Abram (Nexiasolutions)
- 455 Consideration of the function test program for the Prototype FBR MONJU  
Mr. K. Morizono (JNC), Mr. M. Rekimoto (JNC), Mr. T. Jou (JNC), Mr. A. Miyakawa (JNC)
- 207 STATUS OF DEVELOPMENT OF AN INTEGRATED IHX/PUMP COMPONENT  
Dr. M. Konomura (JNC), Mr. H. Hayafune (JNC), Mr. Y. Tsujita (MHI), Dr. T. Nakamura (MHI), Mr. T. Iitsuka (MHI), Mr. N. Sawa (ARTECH)
- 221 Status of Conceptual Safety Design Study of JSFR: Japanese Sodium-cooled Fast Reactor  
Mr. S. Kubo (JAPC), Dr. H. Niwa (JNC), Mr. Y. Shimakawa (MHI)
- 044 Feasibility Study of a Compact Loop Type Fast Reactor without Refueling for a Remote Place Power Source  
Dr. Y. Chikazawa (JNC), Mr. N. Kisohara (JNC), Mr. S. Usui (JNC), Dr. M. Konomura (JNC), Mr. N. Sawa (ARTECH), Mr. M. Sato (ARTECH), Mr. T. Tanaka (JNC)
- Oct. 11, 16:30-18:20, 304
- 4D LMFR advanced design IV; Reactor Core Design  
Mr. A. Worrall (Nexiasolutions), Dr. Y. Chikazawa (JNC)
- 434 Advanced Oxide Fuel Core Design Study for SFR in the "Feasibility Study" in Japan  
Mr. T. Mizuno (JNC), Mr. T. Ogawa (JNC), Mr. M. Naganuma (JNC), Mr. T. Aida (JAPC)
- 399 Advanced Metal Fuel Core Design Study for SFR in the "Feasibility Study" in Japan  
Mr. K. Sugino (JNC), Mr. T. Ogawa (JNC), Mr. T. Mizuno (JNC)
- 219 Application of Burnable Poison for Reduction of Coolant Loss Reactivity in a Sodium Cooled TRU Burner Design  
Dr. Y. Kim (Hanyang U.), Prof. J. Kim (Hanyang U.), Dr. W. Park (KAERI)
- 571 The KALIMER-600 Core Neutronic Design with a Single Enrichment  
Mr. H. Song (KAERI), Dr. J. S. Kim (KAERI), Dr. S. Hong (KAERI), Mr. I. Y. Kim (KAERI)
- Oct. 11, 11:00-12:50, 402
- 6B Reprocessing advancement on aqueous processing I  
Prof. Jing Chen (Tsinghua U.), Dr. Y. Morita (JAERI)
- 032 Development of the ERIX Process for Reprocessing Spent FBR-MOX Fuel --- A Hot Test on U and Pu Recovery and the Process Improvement---  
Dr. Y. Wei (IPPE), Dr. T. Arai (IRI), Dr. H. Hoshi (IRI), Dr. M. Kumagai (IRI)
- 045 Development of the ERIX Process for Reprocessing Spent FBR-MOX Fuel - A Study on Minor Actinides Separation Process -  
Dr. H. Hoshi (IRI), Dr. Y. Wei (IPPE), Dr. M. Kumagai (IRI), Dr. T. Asakura (JAERI), Dr. Y. Morita (JAERI)
- 072 Development of the ERIX process for Reprocessing Spent FBR-MOX Fuel --- Electrolytic Reduction and Anion Exchange Separation for U and FPs Containing Solution ---  
Dr. T. Arai (IRI), Dr. Y. Wei (IPPE), Dr. M. Kumagai (IRI)
- 128 DISSOLUTION OF IRRADIATED NUCLEAR FUEL IN DENSE CARBON DIOXIDE  
Dr. A. Shadrin (KRI), Dr. A. A. Murzin (KRI), Prof. V. N. Romanovsky (KRI)
- Oct. 11, 14:10-16:00, 402
- 6B Reprocessing advancement on aqueous processing II  
Dr. J-P. Glatz (ITU), Dr. Y. Koma (JNC)
- IL010 Invited Lecture: A New Conceptual Reprocessing Process Based on the Diamide Derivate Extraction  
Prof. J. Chen (Tsinghua U.), Mr. S. Wang (Tsinghua U.)
- 159 Development of a Simple Reprocessing Process Using Selective Precipitant for Uranyl Ions - Precipitation Behaviors of Plutonium and other Transuranium Elements -  
Dr. Y. Morita (JAERI), Mr. Y. Kawata (MMC), Dr. H. Mineo (JAERI), Dr. N. Koshino (TITECH), Dr. N. Asanuma (TITECH), Dr. M. Harada (TITECH), Prof. Y. Ikeda (TITEC), Mr. K. Yamazaki (MMC), Mr. T. Chikazawa (MMC), Mr. Y. Tamaki (MMC), Mr. T. Kikuchi (MMC)

- 138 Development of a Simple Reprocessing Process Using Selective Precipitant for Uranyl Ions - Engineering Studies for Precipitating and Separating Systems- Mr. K. Yamasaki (MMC), Mr. T. Chikazawa (MMC), Mr. Y. Tamaki (MMC), Mr. T. Kikuchi (MMC), Dr. Y. Morita (JAERI), Mr. Y. Kawata (MMC), Dr. H. Mineo (JAERI), Dr. N. Koshino (TITECH), Dr. N. Asanuma (TITECH), Dr. M. Harada (TITECH), Prof. Y. Ikeda (TITEC)
- 118 Uranium Cryatallization for Dissolver Solution of Irradiate FBR MOX Fuel  
Mr. K. Yano (JNC), Mr. A. Shibata (JNC), Mr. K. Nomura (JNC), Mr. T. Koizumi (JNC), Mr. T. Koyama (JNC)
- Oct. 11, 16:30-18:20, 402
- 6B Reprocessing advancement on aqueous processing III  
Dr. J-P Glatz (ITU), Prof. Y. Ikeda (TITech)
- 371 Separation of Np from U and Pu using a salt-free reductant for Np(VI) by continuous counter-current back-extraction  
Dr. Y. Ban (JAERI), Dr. T. Asakura (JAERI), Dr. Y. Morita (JAERI)
- 235 Composite reprocessing of spent fuel - is a way to low waste nuclear energy  
Mr. V. N. Kosyakov (Kurchatov Institute)
- 259 Dissolution of irradiated MOX fuel for highly concentrated solution  
Dr. Y. Sano (JNC), Mr. S. Miyachi (JNC), Mr. T. Koizumi (JNC), Mr. T. Koyama (JNC)
- 341 Direct Extraction of Uranium and Plutonium from Irradiated MOX Fuel by Super-DIREX Process  
Ms. S. Miura (JNC), Mr. M. Kamiya (JNC), Mr. S. Miyachi (JNC), Mr. T. Koyama (JNC), Mr. S. Ogumo (ARTECH), Mr. T. Shimada (MHI), Mr. Y. Mori (MHI), Prof. Y. Enokida (Nagoya U.)
- Oct. 11, 11:00-12:50, 403
- 5C Material advancement III  
Prof. T. R. Allen (U. Wisconsin), Mr. T. Kaito (JNC)
- 512 Improvement of the Wettability of Metal Oxide Surface by Radiation Induced Surface Activation  
Mr. A. Sayano (Toshiba), Dr. F. Kano (Toshiba), Dr. N. Saito (Toshiba), Prof. K. Okamoto (U. Tokyo), Prof. H. Abe (U. Tokyo), Dr. Y. Imai (U. Tokyo), Mr. M. Furuya (CRIEPI), Prof. T. Takamasa (TUMST), Dr. M. Yoshikawa (JAERI)
- 476 Microstructure, Stress and Damage Characterisation in Nuclear Graphite. Dr. J. Marrow (U. Manchester), Mr. A. Hodgkins (U. Manchester), Dr. K. Wen (U. Manchester), Dr. L. Babout (U. Manchester), Dr. M. Joyce (U. Manchester), Mr. C. Berre (U. Manchester), Dr. A. Fok (U. Manchester), Dr. P. Mummery (U. Manchester), Prof. B. Marsden (U. Manchester)
- 060 The carbon matrices made of pyrolied phtalocyanines as a base for encapsulation of the long - lived nuclides of iodine, technetium and minor actinides  
Dr. V. I. Tikhonov (PNPI), Prof. P. N. Moskalev (PNPI), Mr. V. K. Kapustin (PNPI)
- 332 Mechanical properties and characteristics of radiating absorption of ceramic materials with the raised viscosity on the basis of systems MeB2 - C\* and MeB2 - SiC received by a method solid-phase synthesis.  
Prof. V. A. Makara (Kyiv U.), Dr. I. F. Kazo (Kyiv U.)
- Oct. 11, 14:10-16:00, 403
- 5B Innovative fuel advancement I  
Dr. J. Wallenius (Royal Institute of Technology), Dr. M. Akabori (JAERI)
- IL002 Invited Lecture: Gas Cooled Fast Reactor System: Major Objectives and Options for Reactor, Fuel and Fuel Cycle.  
Dr. P. Martin (CEA), Ms. N. Chauvin (CEA), Dr. M. Pelletier (CEA), Mr. A. Ravenet (CEA), Mr. J. M. Esclaine (CEA), Mr. L. Paret (CEA)
- 316 State-of-art Technology of Fuels for Burning Minor Actinides - An OECD/NEA Study  
Dr. T. Ogawa (JAERI), Dr. R. Konings (ETI), Dr. J. Wallenius (KTH), Ms. S. Pillon (CEA), Dr. D. Crawford (ANL), Dr. M. Verwerf (SCK-CEN), Dr. R. Schram (NRG)
- 489 The Design and Production of Nitride Fuels for the AFCI Program  
Mr. S. L. Voit (LANL), Dr. K. J. Mcclellan (LANL), Dr. S. A. Maloy (LANL), Dr. S. P. Willson (LANL), Dr. C. R. Stanek (LANL), Mr. G. E. Egeland (LANL), Mr. J. T. Dunwoody (LANL), Dr. R. W. Margevicius (LANL), Prof. T. Hartmann (UNLV), Dr. H. T. Hawkins (LANL)
- 073 Operation of the PHENIX reactor ans transmutation experiments  
Dr. B. Fontaine (CEA), Mr. J. Guidez (CEA), Mr. L. Martin (CEA), Mr. P. Chaucheprat (CEA)
- Oct. 11, 16:30-18:20, 403
- 5B Innovative fuel advancement II  
Dr. J. Wallenius (Royal Institute of Technology), Dr. M. Akabori (JAERI)
- 258 The FUTURIX-FTA Experiment in PHENIX: Status of fuel fabrication  
Dr. L. Donnet (CEA), Mr. F. Jorion (CEA), Dr. N. Drin (CEA), Dr. S. L. Hayes (INL), Dr. J. R. Kennedy (INL), Dr. K. O. Pasamehmetoglu (INL), Mr. S. L. Voit (LANL), Mr. D. Haas (EC), Ms. A. Fernandez (EC)
- 391 The new nuclear fuel R&D plan of the JRC-ITU on uranium-plutonium-americiu nitrides and carbides  
Dr. C. Ronchi (EC), Dr. P. V. Uffelen (EC), Dr. A. Schubert (EC), Dr. C. Bruynooghe (EC), Mr. J. V. Laar (EC), Prof. E. Kotomin (EC), Dr. V. Rondinella (EC), Dr. D. Staicu (EC), Mr. A. Ciriello (EC), Dr. J. Hiernaut (EC), Dr. T. Wiss (EC), Ms. A. Fernandez (EC), Mr. D. Haas (EC), Dr. J. Somers (EC), Dr. C. Walker (EC), Dr. D. Bottomley (EC), Dr. J. Glatz (EC)
- 307 Ceramic fuels for application in accelerator driven systems: status of the CONFIRM and FUTURE projects  
Dr. J. Wallenius (KTH)
- 362 PROMINENT - Program on Research and Development of Nitride Fuel Cycle Technology  
Dr. K. Minato (JAERI), Dr. Y. Arai (JAERI), Dr. M. Akabori (JAERI), Dr. M. Uno (Osaka U.), Mr. Y. Tamaki (MMC), Mr. K. Itoh (NDC)
- Oct. 11, 11:00-12:50, 405
- 10A Accelerator driven subcritical systems I  
Dr. R. Jacqmin(CEA), Dr. T. Sasa (JAERI)
- 031 Analyses of Transients for an IAEA Benchmark on Accelerator Driven Transmuters with Fertile-Free Fuels  
Dr. T. Suzuki (FZK), Dr. X. Chen (FZK), Dr. K. Morita (Kyushu U.), Ms. C. M. Boccaccini (FZK), Dr. A. Rineiski (FZK), Dr. W. Maschek (FZK)
- 152 Analysis of Transients and Severe Accidents in Accelerator Driven Transmuters (ADTs) of the 800 MWh Class with Fertile-Free Fuels  
Dr. X. Chen (FZK), Dr. T. Suzuki (FZK), Dr. A. Rineiski (FZK), Dr. M. Mori (FZK), Ms. C. Matzerath Boccaccini (FZK), Dr. W. Maschek (FZK), Dr. K. Morita (Kyushu U.)
- Oct. 11, 14:10-16:00, 405
- 7B Advancement of P&T I  
Mr. Oigawa (JAERI), Dr. Maschek (FzK)

- 271 Overview of French P and T program and results for waste management  
Mr. D. Warin (CEA)
- 272 Present Status and Future Perspective of Research and Development on Partitioning and Transmutation Technology at JAERI  
Dr. H. Oigawa (JAERI), Dr. K. Minato (JAERI), Dr. T. Kimura (JAERI), Dr. Y. Morita (JAERI), Dr. Y. Arai (JAERI), Dr. S. Nakayama (JAERI)
- 022 DEVELOPMENT OF PARTITIONING AND TRANSMUTATION TECHNOLOGIES IN KOREA  
Dr. J. Yoo (KAERI), Dr. E. Kim (KAERI), Dr. T. Song (KAERI)
- 094 PROJECT E R O S THE DEVELOPMENT OF A NEW REACTOR CONCEPT WITH LIQUID FUEL BASED ON MOLTEN FLUORIDES FOR REDUCING THE AMOUNT AND HAZARD OF NUCLEAR WASTE (DEMONSTRATION OF PROMISING P&T TECHNOLOGY AT SMALL SCALE)  
Dr. M. J. Hron (UJV)
- Oct. 11, 16:30-18:20, 405
- 7B Advancement of P&T II  
Mr. Oigawa (JAERI), Dr. Maschek (FzK)
- 010 IAEA CRP on 'Studies of Advanced Reactor Technology Options for Effective Incineration of Radioactive Waste'  
Dr. W. Maschek (FZK), Dr. A. Stanculescu (IAEA)
- 027 Integrated Study of Molten Na, Li, Be/F Salts for LWR Waste Burning in Accelerator Driven and Critical Systems  
Prof. V. V. Ignatiev (Kurchatov Institute)
- 315 Incinerating transuranic elements in the low void region of a BWR  
Mr. D. Westlen (KTH), Dr. J. Wallenius (KTH), Mr. T. Back (KTH)
- Oct. 11, 11:00-12:50, 406
- 4B Evolutional and supercritical water cooled reactors II; SCWR-Reactor Design -2  
Dr. I. L. Pioro (AECL), Mr. K. Yamada (Toshiba)
- 036 Enhancement of Heat Transfer in HPLWR Fuel Assemblies  
Mr. A. Bastron (U. Karlsruhe), Mr. J. Hofmeister (FZK), Dr. J. Starflinger (FZK), Dr. L. Meyer (FZK), Prof. T. Schulenberg (FZK)
- 556 Design and Integrity Analyses of the Super LWR Fuel Rod  
Mr. A. Yamaji (U. Tokyo), Prof. Y. Oka (U. Tokyo), Dr. J. Yang (U. Tokyo), Prof. J. Liu (U. Tokyo), Mr. Y. Ishiwatari (U. Tokyo), Prof. S. Koshizuka (U. Tokyo)
- 103 Heat Transfer Test in a Tube at Supercritical Pressure Using CO<sub>2</sub>  
Dr. H. Kim (KAERI), Dr. H. Kim (KAERI), Dr. B. Cho (KAERI), Dr. J. Song (KAERI), Dr. Y. Bae (KAERI)
- Oct. 11, 14:10-16:00, 406
- 4B Evolutional and supercritical water cooled reactors III; SCWR-Thermal Hydraulics-1  
Dr. K. Kitoh (Hitachi)
- 369 CFD Analysis of Heat Transfer in Supercritical Water in Different Flow Channels  
Dr. X. Cheng (FZK), Prof. E. Laurien (U. Stuttgart)
- 557 Evaluation of the Nominal Peak Cladding Surface Temperature of the Super LWR with Subchannel Analyses  
Mr. A. Yamaji (U. Tokyo), Mr. T. Tanabe (U. Tokyo), Prof. Y. Oka (U. Tokyo), Dr. J. Yang (U. Tokyo), Prof. J. Liu (U. Tokyo), Mr. Y. Ishiwatari (U. Tokyo), Prof. S. Koshizuka (U. Tokyo)
- 066 Turbulent mixing in the foot piece of a HPLWR fuel assembly  
Mr. J. Hofmeister (FZK), Prof. E. Laurien (U. Stuttgart), Dr. A. G. Class (FZK), Prof. T. Schulenberg (FZK)
- 184 Passive Cooling of the CANDU SCWR Fuel at LOCA / LOECC Conditions  
Mr. A. Vasic' (AECL), Dr. H. F. Khartabil (AECL)
- Oct. 11, 16:30-18:20, 406
- 4B Evolutional and supercritical water cooled reactors IV; SCWR-Thermal Hydraulics-2  
Dr. X. Cheng (FzK), Mr. Y. Ishiwatari
- 518 Experimental Study on Heat Transfer to Supercritical Water Flowing in Vertical Tubes  
Dr. P. L. Kirillov (IPPE), Dr. R. S. Pomet'ko (IPPE), Dr. A. M. Smirnov (IPPE), Dr. V. A. Grabeznaia (IPPE), Dr. I. L. Pioro (AECL), Dr. R. B. Duffey (AECL), Dr. H. F. Khartabil (AECL)
- 519 Experimental Study on Temperature Regimes to Supercritical Water Flowing in Vertical Tubes at Low Mass Fluxes  
Dr. E. N. Pis'menny (KPI), Dr. V. G. Razumovsky (KPI), Dr. E. M. Maevsky (KPI), Dr. A. E. Koloskov (KPI), Dr. I. L. Pioro (AECL), Dr. R. B. Duffey (AECL)
- 037 A look-up table for heat transfer of supercritical water  
Mr. M. Lowenberg (FZK), Dr. J. Starflinger (FZK), Prof. E. Laurien (U. Stuttgart), Prof. T. Schulenberg (FZK)
- 555 Development on Statistical Thermal Design Procedure for Super LWR  
Dr. J. Yang (U. Tokyo), Prof. Y. Oka (U. Tokyo), Prof. J. Liu (U. Tokyo), Mr. Y. Ishiwatari (U. Tokyo), Mr. A. Yamaji (U. Tokyo)
- Oct. 11, 18:30-21:00, 200
- Night Session; WIN the Public Confidence - Women In Nuclear Bridge between the Nuclear Specialists and the Citizen  
Dr. Kaoru Kikuyama (JAIF),  
- (No title)  
Dr. S. Ion (BNFL)  
- (No title)  
Dr. J. Matsubara (NSC)  
- (No title)  
Dr. S. E. Pickett (TBD)
- Oct. 12, 8:30-10:00, Main Convention Hall
- Plenary II  
Prof. Satoru Tanaka (U. Tokyo),  
- Lecture on resource study; Countermeasures for prediction of environmental variation  
Prof. R. Matsuhashi (U. Tokyo)  
- Lecture on climate model and prediction of climate change  
Dr. A. Noda (Meteorological Research Institute)  
- Long term management of radioactive waste: main results and perspectives in the frame of the 'Bataille Act'  
Dr. B. Frois (Ministry of Research)
- Oct. 12, 10:10-12:30, 200
- 14A Advancement in public perception research  
Prof. S. Takahashi (Tohoku U.), Dr. P. Fritz (FzK)
- 206 A Web-Based e-Learning Framework for Public Perception and Acceptance on Nuclear Energy  
Mr. Y. Zhou (Kyoto U.), Prof. Y. Hidekazu (Kyoto U.), Ms. X. Sun (Kyoto U.), Dr. J. Liu (Kyoto U.)

- 213 A Web-based Nuclear Accident Illumination System based on Multilevel Flow Model - for Risk Communication and Nuclear Safety Culture  
Mr. J. Ouyang (Kyoto U.), Prof. U. Niwa (Yokohama National U.), Dr. H. Yoshikawa (Kyoto U.), Mr. Y. Chen (Kyoto U.), Dr. J. Liu (Kyoto U.), Mr. Y. Zhou (Kyoto U.)
- 270 Development of Knowledge Building Program Concerning about High-Level Radioactive Waste Disposal  
Dr. H. Kimura (U. Tokyo), Dr. K. Yamada (Quintessa), Dr. H. Takase (Quintessa)
- 334 Risk communication system for High Level radioactive Waste disposal  
Mr. A. Kugo (KEPCO), Dr. H. Yoshikawa (Kyoto U.), Mr. A. Uda (Kyoto U.), Mr. T. Imaki (Kyoto U.), Dr. H. Shimoda (Kyoto U.), Dr. K. Ito (Osaka U.), Dr. Y. Wakabayashi (Kyoto U.)
- 431 New Paradigms in Radioactive Waste Management  
Dr. H. Riotte (OECD)
- Oct. 12, 13:50-18:00, 200
- 2C Panel Discussion; National policies, strategies and status of nuclear energy utilization, including near future matters  
Prof. H. Yamana (Kyoto U.), Dr. Thierry DUJARDIN (NEA)
- 140 EURATOM FRAMEWORK PROGRAMMES ON RESEARCH AND TRAINING ON NUCLEAR ENERGY IN THE EUROPEAN UNION  
Dr. V. Bhatnagar (EU), Ms. S. Casalta (EC), Dr. M. Hugon (EC), Mr. G. Van Goethem (EC)
- IL004 Invited Lecture: Fuel Cycle Management in the UK-the Past, Present and Future  
Dr. J. Z. Edwards (BNFL)
- (No title)  
Dr. C. B. Savage (DOE)
- (No title)  
Dr. J. Bouchard (CEA)
- 379 FR Cycle System Developments in Japan  
Mr. I. Nakajima (JNC)
- (No title)  
Mr. V. Ivanov (DUMA)
- 290 Projected Costs of Generating Electricity - Update 2005  
Dr. T. Dujardin (OECD)
- Oct. 12, 10:10-12:30, 201
- 3E Fuel cycle options for the future sustainability I  
Mr. N. Nakae (JNC), Mr. A. Worall (BNFL)
- 164 ANALYSE OF SCENARIOS BASED ON TRANSITION FROM GEN II / GEN III TO GEN IV SYSTEMS - CASE OF THE FRENCH FLEET  
Mr. M. Delpech (CEA), Dr. F. Carre (CEA), Dr. P. Brossard (CEA), Ms. C. Loaec (CEA), Dr. A. Vasile (CEA), Mr. L. Boucher (CEA)
- 377 System Dynamics Studies of Advanced Fuel Cycle Scenarios  
Dr. A. M. Yacout (ANL), Dr. R. N. Hill (ANL), Dr. S. J. Piet (INL)
- 560 A study on the optimized fuel cycle systems during the transition period from LWR era to FBR era  
Mr. H. Ojima (JNC), Mr. N. Hayashi (JNC), Mr. T. Nagai (JNC), Mr. Y. Fujita (JNC), Mr. T. Kawata (JNC)
- 562 FLEXIBLE FUEL CYCLE INITIATIVE FOR THE TRANSITION PERIOD FROM CURRENT REACTORS TO NEXT GENERATION REACTORS  
Dr. T. Fukasawa (Hitachi), Mr. J. Yamashita (Hitachi), Mr. Y. Shibata (Hitachi)
- 561 THE CONCEPT OF THE FUEL CYCLE PROCESS IN THE TRANSITION PERIOD FROM LIGHT WATER REACTORS TO NEXT-GENERATION REACTORS  
Mr. Y. Mori (ARTECH), Mr. F. Matsuoka (ARTECH), Mr. A. Noguchi (ARTECH)
- Oct. 12, 13:50-15:40, 201
- 3E Fuel cycle options for the future sustainability II  
Mr. K. Nagano (CRIEPI), Mr. C. Garzenne (EDF)
- 157 Study on Characteristics for Different Moderation Ratios of Heavy Water Coolant With Different Reactor Types in Equilibrium States  
Mr. S. Permana (TITECH), Dr. N. Takaki (TITECH), Prof. H. Sekimoto (TITECH)
- 314 MHR Fuel Cycle Options for the Future Sustainability of Nuclear Power  
Mr. A. Baxter (GA), Dr. F. Venneri (GA), Mr. C. Rodriguez (GA), Mr. M. Fikani (GA)
- 124 USE OF REGENERATED URANIUM AND PLUTONIUM IN PWR  
Dr. Y. S. Fedorov (KRI), Dr. E. G. Kudryavtsev (FAAE), Dr. B. A. Bibichev (KRI), Prof. B. Y. Zilberman (KRI), Dr. A. Shadrin (KRI)
- Oct. 12, 16:10-18:00, 201
- 3B Development of FBR cycle systems  
Mr. G. Uchiyama (JNC), Mr. J. Edwards (BNFL)
- 465 Experiences of FBR Cycle System in JNC  
Dr. N. Nakae (JNC)
- 088 Compound Process Fuel Cycle Concept  
Mr. T. Ikegami (JNC)
- 204 Multi-component fission system with centralized nuclear park for clean, efficient and proliferation resistant use of nuclear energy  
Mr. M. Svirskas (TITECH), Dr. N. Takaki (NMCC), Prof. H. Sekimoto (TITECH)
- Oct. 12, 10:10-12:30, 202A
- 7C Partitioning Technology I  
Mr. Ozawa (JNC), Mr. Zilberman (Khlopin)
- 055 HIGH PERFORMANCE SEPARATIONS OF LANTHANIDES AND ACTINIDES USING HPLC  
Dr. S. Nagarajan (IGCAR), Dr. S. G. Thandankorai (IGCAR), Dr. V. Polur (IGCAR)
- 056 Chromatographic Separation of Cesium and Strontium from High Level Liquid Waste Using Silica-Based Calixarene-Crown Extraction Resins  
Dr. A. Zhang (IRI), Dr. Y. Wei (IPPE), Dr. H. Hoshi (IRI), Dr. Y. Koma (JNC), Mr. M. Kamiya (JNC)
- 309 TRISO-Coated Spent fuel Processing Using a Grind-Leach Head-End  
Dr. B. B. Spencer (ORNL), Dr. G. D. Del Cul (ORNL), Ms. C. H. Mattus (ORNL), Mr. E. D. Collins (ORNL)
- 062 Development of Electrochemical Separation Methods from Molten Fluoride Salt Media  
Dr. P. Soucek (UJV), Dr. K. Chuchvalcova Bimova (UJV), Dr. F. Lisy (UJV), Dr. R. Tulackova (UJV)
- Oct. 12, 13:50-15:40, 202A
- 7C Partitioning Technology II  
Mr. Sasaki (JAERI), Mr. Madic (CEA)
- 346 Minor Actinides Separation: R&D main results and prospects in France  
Dr. B. Boullis (CEA), Dr. P. Baron (CEA), Dr. P. Blanc (CEA), Mr. M. Lecomte (CEA)
- 186 Hot Test Evaluation of the Reverse Thapspeak Process  
Mr. E. D. Collins (ORNL), Mr. D. E. Benker (ORNL), Mr. L. K. Felker (ORNL), Mr. R. D. Taylor (ORNL), Dr. G. D. Del Cul (ORNL), Dr. B. B. Spencer (ORNL), Mr. W. D. Bond (ORNL), Mr. D. O. Campbell (ORNL)



126 HIGH LEVEL WASTE TREATMENT USING ZIRCONIUM SALT OF HDBP WITH REGARD TO LOCALIZATION OF PRECIPITATE -FORMING ELEMENTS  
Prof. B. Y. Zilberman (KRI), Dr. Y. S. Fedorov (KRI), Dr. O. V. Shmidt (KRI), Mr. N. D. Goletsky (KRI), Ms. I. V. Blazheva (KRI), Mr. D. N. Kukharev (KRI), Ms. N. V. Ryabkova (KRI), Prof. G. R. Choppin (Florida State U.)

483 European EUROPART Integrated Project on Actinide Partitioning  
Prof. C. Madic (CEA), Mr. M. Lecomte (CEA), Dr. M. J. Hudson (U. Reading)

Oct. 12, 16:10-18:00, 202A

7C Partitioning Technology III

Mr. Sasaki (JAERI), Mr. Madic (CEA)

344 Novel compounds, diglycolamides (DGA), for extraction of various metal ions from nitric acid to n-dodecane  
Dr. Y. Sasaki (JAERI), Ms. Y. Sugo (JAERI), Dr. T. Kimura (JAERI)

059 R&D on Partitioning at the German Research Centers Karlsruhe and Juelich  
Dr. K. Gompper (FZK), Dr. A. Geist (FZK), Dr. G. Modolo (FZ-Juelich), Dr. M. A. Denecke (FZK), Dr. P. Panak (FZK), Dr. M. Weigl (FZK), Prof. T. Fanghaenel (FZK)

119 The development of new hydrometallurgical processes for actinides recovery : The GANEX process.  
Dr. J. Adnet (CEA), Dr. M. Miguirditchian (CEA), Dr. C. Hill (CEA), Mr. X. Heres (CEA), Dr. P. Baron (CEA), Mr. M. Lecomte (CEA)

129 EXTRACTION REPROCESSING OF HLW BY MODIFIED SETFICS PROCESS  
Dr. A. Shadrin (KRI), Mr. V. A. Kamachev (KRI), Mr. I. B. Kvasnitsky (KRI), Prof. V. N. Romanovsky (KRI), Mr. Y. G. Krivitzky (MCC), Mr. V. V. Bondin (MCC), Mr. S. A. Alekseenko (MCC), Mr. T. Koyama (JNC), Dr. Y. Koma (JNC), Mr. M. Kamiya (JNC)

Oct. 12, 10:10-12:30, 202B

4A Advancement of water cooled reactors I; Near-term water reactors-1

Dr. T. Matsumura (CRIEPI), Dr. X. Cheng (FZK)

358 Investigation on Innovative Water Reactor for Flexible Fuel Cycle (FLWR) - (1) Conceptual Design  
Dr. S. Uchikawa (JAERI), Mr. T. Okubo (JAERI), Mr. T. Kugo (JAERI), Mr. H. Akie (Ibaraki U.), Mr. Y. Nakano (JAERI), Dr. A. Ohnuki (JAERI), Dr. T. Iwamura (JAERI)

359 Investigation on Innovative Water Reactor for Flexible Fuel Cycle (FLWR) -- (2) Recycle Characteristics  
Mr. T. Okubo (JAERI), Dr. S. Uchikawa (JAERI), Mr. T. Kugo (JAERI), Mr. H. Akie (Ibaraki U.), Dr. R. Takeda (Hitachi)

091 MASTER PLAN AND CURRENT STATUS FOR FEASIBILITY STUDY ON THERMAL/HYDRAULIC PERFORMANCE OF REDUCED-MODERATION WATER REACTOR  
Dr. A. Ohnuki (JAERI), Dr. K. Takase (JAERI), Dr. M. Kureta (JAERI), Dr. H. Yoshida (JAERI), Dr. H. Tamai (JAERI), Dr. W. Liu (JAERI), Dr. T. Nakatsuka (JAERI), Dr. H. Akimoto (JAERI)

120 Critical Power Prediction for Tight Lattice Bundles  
Dr. W. Liu (JAERI), Dr. H. Tamai (JAERI), Mr. T. Sato (JAERI), Dr. A. Ohnuki (JAERI), Dr. H. Akimoto (JAERI)

015 THERMAL HYDRAULIC STUDIES ON THE PASSIVE SYSTEMS OF ADVANCED HEAVY WATER REACTOR  
Mr. D. Saha (BARC), Dr. R. K. Sinha (BARC)

Oct. 12, 13:50-15:40, 202B

4C HTGR and gas-cooled reactor systems I; Development Program

Mr. Y. Tsuchie(JAPC), Dr. T. A. Taiwo (ANL)

131 Gas-cooled Fast Reactors : Motivation and Presentation of the ENIGMA Programme in the Experimental Critical Facility MASURCA  
Mr. J. Tommasi (CEA), Dr. R. Jacqmin (CEA), Mr. F. Mellier (CEA)

412 Conceptual Design Study of Helium Cooled Fast Reactor in the "Feasibility Study" in Japan  
Dr. Y. Okano (JNC), Mr. M. Naganuma (JNC), Mr. H. Ikeda (JAPC), Mr. T. Mizuno (JNC), Dr. M. Konomura (JNC)

183 Concerted program and development of new test facilities to address high temperature corrosion issues of Ni based alloys in impure helium environment for applications in Very High Temperature Reactors  
Dr. E. Walle (EDF), Ms. M. Blat (EDF), Dr. J. Boursier (EDF), Dr. P. Combrade (FRAMATOME ANP), Dr. D. Kaczoroswski (FRAMATOME ANP), Dr. A. Terlain (CEA), Dr. C. Cabet (CEA), Dr. P. Lamagnere (CEA), Dr. S. Dubiez-le Goff (FRAMATOME ANP)

Oct. 12, 16:10-18:00, 202B

4A Advancement of water cooled reactors II; Near-term water reactors-2

Dr. S. Okajima (JAERI), Dr. P. D'hondt (SCK-CEN)

078 Experimental investigation of Isothermal Temperature Coefficient in ALWR-type UO<sub>2</sub> and full MOX cores  
Dr. P. D. Blaise (CEA), Dr. P. Fougeras (CEA), Dr. S. Cathalau (CEA), Ms. V. Laval (CEA), Mr. H. Philibert (CEA), Mr. J. Girard (CEA)

092 FUBILA: Core Physics Experimental Program Aimed at Validation of Core Analysis Method for High Burn-up BWR Full MOX Cores  
Dr. T. Yamamoto (JNES), Mr. S. Kikuchi (JNES), Mr. K. Kawashima (JNES), Dr. K. Kamimura (JNES)

232 Concept of a Passive-Safety Reactor "KAMADO" and Nuclear Fuel Cycle - Possibility of Extremely High Burn-up with Metallic Fuels -  
Mr. T. Matsumura (CRIEPI), Dr. T. Kameyama (CRIEPI), Dr. Y. Nauchi (CRIEPI), Dr. I. Kinoshita (CRIEPI)

537 Concept of Fast Reactor of Hard Spectrum cooled with Spray Type Water at 7.5MPa  
Dr. A. Kitamoto (TITECH)

Oct. 12, 10:10-12:30, 300

6B Reprocessing advancement on aqueous processing IV

Dr. A. SHADRIN (Khlopin R. I.), Dr. Y. MORITA (JAERI)

497 Actinide Solution Chemistry in Closed-loop and Single-pass Nuclear Fuel Cycles  
Prof. K. L. Nash (Washington State U.)

502 Conceptual Design Study and Evaluation of Advanced Reprocessing Plants in the Feasibility Study on Commercialized FR Cycle Systems in Japan  
Mr. K. Sato (JNC), Dr. Y. Koma (JNC), Mr. H. Nakabayashi (JNC), Mr. K. Yano (JNC), Mr. S. Yonezawa (JNC), Dr. I. Amamoto (JNC), Mr. T. Takata (JNC), Mr. S. Kitajima (JNC), Dr. Y. Kobayashi (JNC), Mr. T. Tatsuya Higuchi (JNC), Mr. T. Yoshiuji (JNC), Mr. K. Fujii (JAPC), Mr. A. Inoue (Hitachi), Mr. T. Tsunaaki Fujioka (ARTECH)

321 A Forthcoming Reprocessing Plant for Processing Fast and Thermal Reactor Fuels  
Dr. Y. Koma (JNC), Mr. K. Yano (JNC), Mr. A. Ohtaki (JNC), Mr. K. Sato (JNC)

- 161 The Control of Neptunium and Plutonium In Single Cycle Solvent Extraction Flowsheets for Advanced Fuel Cycles  
Mr. J. E. Birkett (Nexia Solutions), Dr. M. J. Carrott (Nexia Solutions), Dr. D. O. Fox (Nexia Solutions), Dr. C. J. Jones (Nexia Solutions), Mr. C. J. Maher (Nexia Solutions), Ms. C. V. Roubé (Nexia Solutions), Dr. R. Taylor (Nexia Solutions), Mr. D. A. Woodhead (Nexia Solutions)
- Oct. 12, 13:50-15:40, 300
- 6C Reprocessing advancement on pyrochemical processing IV  
Dr. Bychkov (RIAR), Dr. Koyama (CRIEPI)
- 153 PROGRESS OF THE R&D PROGRAM ON PYROCHEMISTRY AT CEA  
Mr. J. Lacquement (CEA), Dr. S. Bourg (CEA), Mr. H. Boussier (CEA), Dr. O. Conocar (CEA), Dr. A. Laplace (CEA), Mr. M. Lecomte (CEA), Dr. B. Boullis (CEA), Dr. J. Duhamet (CEA), Dr. A. Grandjean (CEA), Dr. P. Brossard (CEA), Mr. D. Warin (CEA)
- 488 Electrolytic Reduction of Spent Oxide Fuel -- Bench-Scale Test Results  
Mr. S. D. Herrmann (INL), Dr. S. X. Li (INL), Mr. S. F. Simpson (INL)
- 487 ELECTROREFINING EXPERIENCE FOR PYROCHEMICAL REPROCESSING OF SPENT EBR-II FUEL  
Dr. S. X. Li (INL), Mr. T. A. Johnson (INL), Mr. B. R. Westphal (INL), Dr. M. K. Goff (INL)
- 579 Pyroelectrochemical Reprocessing of Fast Reactor Spent Fuel.VII. Reprocessing of BOR-60 Regular MOX Fuel into MOX with 30% Pu Content  
Dr. M. Kormilitsyn (RIAR), Dr. V. S. Ishunin (RIAR), Dr. A. Bychkov (RIAR), Dr. T. Namba (JNC), Dr. T. Kobayashi (JNC), Mr. M. Myochin (JNC)
- Oct. 12, 16:10-18:00, 300
- 6C Reprocessing advancement on pyrochemical processing V  
Dr. Laquement (CEA), Dr. Fujita (Toshiba)
- 282 R&D of pyrochemical reprocessing technologies dedicated to MSR fuel cycle  
Dr. J. Uhlir (UJV), Dr. M. Marecek (UJV)
- 063 Salt Waste Treatment from a LiCl-KCl based Pyrochemical Spent Fuel Treatment Process  
Dr. M. T. Harrison (Nexia Solutions), Dr. A. Jackson (Nexia Solutions), Mr. A. Stapleton (Nexia Solutions), Dr. B. G. Lewin (Nexia Solutions)
- 197 Conversion technique of salt wastes generated in pyrochemical reprocessing into oxide  
Mr. F. Sato (JNC), Mr. M. Myochin (JNC), Mr. H. Terunuma (KAKEN), Mr. O. Arai (KAKEN)
- 191 Behaviour of moisture in LiCl-KCl eutectic for pyrochemical process  
Dr. H. Kinoshita (U. Sheffield), Dr. C. A. Sharrad (U. Manchester), Dr. I. May (U. Manchester), Dr. R. G. Lewin (BNF)
- Oct. 12, 10:10-12:30, 303
- 5B Innovative fuel advancement III  
Dr. J. Wallenius (Royal Institute of Technology), Dr. M. Akabori (JAERI)
- 240 Development of minor actinide containing fuel/target for the use in a future integrated system of fast reactor and accelerator driven system  
Mr. M. Osaka (JNC), Mr. M. Inoue (JNC), Dr. H. Serizawa (JAERI), Mr. M. Kato (JNC), Mr. Y. Tachi (JNC), Mr. R. Kitamura (JNC), Mr. S. Ohki (JNC), Mr. S. Miwa (JNC), Dr. K. Nakajima (JAERI), Dr. T. Iwai (JAERI), Mr. K. Tanaka (JNC), Dr. S. Ukai (JNC), Dr. Y. Arai (JAERI)
- 448 Update on the FUTURIX-FTA Experiment in PHENIX  
Dr. P. Jaeccki (CEA), Ms. S. Pillon (CEA), Mr. D. Warin (CEA), Dr. S. L. Hayes (INL), Dr. J. R. Kennedy (INL), Dr. K. O. Pasamehmetoglu (INL), Mr. S. L. Voit (LANL), Mr. D. Haas (EC), Ms. A. Fernandez (EC), Dr. Y. Arai (JAERI)
- 286 Irradiation Test of Fast Reactor Metal Fuel Containing Minor Actinides in Phenix Reactor  
Mr. H. Ohta (CRIEPI), Dr. T. Yokoo (CRIEPI), Dr. T. Inoue (CRIEPI), Dr. M. Ougier (EC), Dr. J. Glatz (EC), Dr. B. Fontaine (CEA), Dr. E. Brunon (CEA), Dr. L. Poncet (CEA), Dr. F. Sudreau (CEA), Mr. D. Warin (CEA)
- 329 Behavior of Uranium-Plutonium Mixed Nitride and Carbide Fuels irradiated at Phenix  
Dr. M. Fromont (CEA), Mr. J. J. Lamontagne (CEA), Dr. M. M. Asou (CEA), Ms. J. J. Bonnin (CEA)
- 320 Development of Nitride Fuels for Transmutation of Minor Actinides  
Dr. M. Akabori (JAERI), Dr. H. Hayashi (JAERI), Mr. M. Takano (JAERI), Dr. K. Minato (JAERI)
- Oct. 12, 13:50-15:40, 303
- 5B Innovative fuel advancement IV  
Dr. J. Wallenius (Royal Institute of Technology), Dr. M. Akabori (JAERI)
- 080 Comparative Studies of Different Target Designs for Minor Actinides Transmutation  
Dr. S. E. Lemehov (SCK-CEN), Dr. V. P. Sobolev (SCK-CEN), Dr. M. Verwerf (SCK-CEN), Dr. A. A. Hamid (SCK-CEN)
- 443 Evaluation of irradiation behavior of Rock-like Oxide fuels  
Ms. N. N. Shirasu (JAERI), Mr. K. Kuramoto (JAERI), Dr. T. Yamashita (JAERI), Mr. Y. Nakano (JAERI), Mr. Y. Nihei (JAERI), Mr. J. Honda (JAERI), Mr. K. Ichise (JAERI)
- 486 Reactor Physical Characteristics of Plutonium Burning Inert-Matrix Fueled High Temperature Gas-Cooled Reactor  
Mr. H. Akie (Ibaraki U.), Prof. H. Takano (Ibaraki U.)
- 074 Molecular Dynamics Study of Oxide Fuel for Minor Actinide Transmutation  
Mr. D. A. Terentyev (SCK-CEN), Mr. K. Govers (SCK-CEN), Dr. S. E. Lemehov (SCK-CEN), Dr. V. P. Sobolev (SCK-CEN)
- Oct. 12, 16:10-18:00, 303
- 13B Generation IV Research Plans for Sodium-cooled Fast Reactors  
Dr. K. Matsui (IAE),
- 447 Status of the Advanced Fuel Project for Sodium-Cooled Fast Reactor as a Generation IV Nuclear Energy System  
Mr. T. Mizuno (JNC), Dr. D. Crawford (ANL), Dr. M. Fromont (CEA), Dr. J. W. Lee (KAERI), Mr. T. Abram (Nexia Solutions), Dr. J. F. Babelot (JRC-ITU)
- 498 Status of the Design and Safety Project for the Sodium-Cooled Fast Reactor as a Generation IV Nuclear Energy System  
Dr. H. Niwa (JNC), Dr. G. L. Fiorini (CEA), Dr. Y. Sim (KAERI), Dr. J. E. Cahalan (ANL), Dr. T. Lennox (NNC)
- 526 Outline of the SFR Component Design and BOP Project Plan in the Generation IV R&D Programme  
Dr. M. Konomura (JNC), Dr. S. Kim (KAERI), Dr. R. N. Hill (ANL), Dr. P. Dufour (CEA), Dr. T. Lennox (NNC)
- Oct. 12, 10:10-12:30, 304
- 12 Innovative safety approach for nuclear energy systems I  
Prof. T. Wakabayashi (Tohoku U.), Dr. W. Maschek (FzK)

- 460 A Study on Graded Approach for Risk Assessment of the Rokkasho Reprocessing Plant  
Mr. T. Shoji (JNFL), Mr. Y. Kohata (JNFL), Mr. K. Takebe (JNFL), Mr. Y. Tamauchi (JNFL), Mr. K. Hayashi (MHI), Mr. K. Kurosu (MHI)
- 269 Present Status of PSA Methodology Development for MOX Fuel Fabrication Facilities  
Mr. H. Tamaki (JAERI), Mr. Y. Hamaguchi (JAERI), Mr. K. Yoshida (JAERI), Mr. K. Muramatsu (JAERI)
- 478 Criticality safety design of a compacted hulls canister  
Mr. A. Marc (SGN), Mr. A. Coulaud (SGN), Mr. P. Mathieu (COGEMA)
- 112 Development of an Environmental Dose Evaluation System for Nuclear Accident to Estimate External Dose from the Radiation Sources inside of Nuclear Facilities  
Mr. K. Tokuhara (NUSTEC), Mr. M. Ooya (NUSTEC), Dr. S. Moriuchi (NUSTEC), Mr. K. Obata (NUSTEC), Mr. J. Enomoto (NUSTEC), Dr. H. Handa (NUSTEC), Mr. N. Suda (NUSTEC), Mr. T. Kita (NUSTEC), Mr. Y. Kono (MRI), Dr. O. Sato (MRI)
- 383 International Research Programmes on Severe Accidents at IRSN and Associated Facilities  
Mr. T. Albiol (IRSN), Mr. B. Clement (IRSN)
- Oct. 12, 13:50-15:40, 304
- 12 Innovative safety approach for nuclear energy systems II  
Prof. T. Wakabayashi (Tohoku U.), Dr. W. Maschek (FzK)
- 086 DEMONSTRATION TEST OF THE HOLDING STABILITY OF THE SELF ACTUATED SHUTDOWN SYSTEM IN THE EXPERIMENTAL FAST REACTOR "JOYO"  
Mr. M. Takamatsu (JNC), Mr. T. Sekine (JNC), Mr. M. Uchida (JAPC), Mr. S. Kotake (JNC)
- 275 Fuel Failure Simulation Test in the Experimental Fast Reactor JOYO  
Mr. K. Ishida (JNC), Mr. C. Ito (JNC), Mr. T. Aoyama (JNC)
- 471 Installation of the Heat Sink as a Countermeasure against Sodium Spill Accidents at Monju  
Mr. M. Uchihashi (JNC), Mr. A. Okabe (JNC), Mr. M. Ikeda (JNC)
- 071 Analysis of Core Meltdown Energetics in a Metal-Fueled LMR  
Dr. S. Suk (KAERI), Dr. Y. Lee (KAERI)
- Oct. 12, 10:10-12:30, 402
- 4D LMFR advanced design V; Heavy Liquid Metal Technology  
Prof. M. Takahashi (TITech), Dr. V. Dostal (TITech)
- 461 Dual Injection Tube for Flow Rate Reduction in Lead-Bismuth Target System  
Dr. C. Cho (KAERI), Dr. Y. Kim (KAERI), Dr. T. Song (KAERI)
- 490 Effects of Pu-241 Decay on TRU-Fueled Long-Life Core Design  
Dr. W. Yang (ANL), Dr. S. Kim (KAERI), Dr. M. A. Smith (ANL), Dr. J. J. Sienicki (ANL)
- 411 Use of Minor Actinides for ENHS (Encapsulated Nuclear Heat Source) Reactor Core Design  
Dr. S. Hong (KAERI), Prof. E. Greenspan (UCB)
- 507 DESIGN STUDY OF SMALL Pb-Bi COOLED NON-REFUELING NUCLEAR POWER REACTORS (SPINNOR)  
Dr. S. Zaki (ITB)
- 276 Renovation of the "Old" NPP Units as an Economically Effective Way of Nuclear Power Development  
Prof. G. I. Toshinsky (IPPE), Prof. A. V. Zrodnikov (IPPE), Dr. O. G. Komlev (IPPE), Dr. U. G. Dragunov (Gidropress), Dr. V. S. Stepanov (Gidropress), Dr. N. N. Klimov (Gidropress), Dr. I. I. Kopytov (Atomenergoproekt), Dr. V. N. Krushelnitsky (Atomenergoproekt), Dr. V. V. Lepihov (Atomenergoproekt)
- Oct. 12, 13:50-15:40, 402
- 4D LMFR advanced design VI; Heavy Liquid Metal Technology  
Dr. I. Kinoshita (CREPI), Dr. W. S. Yang (ANL)
- 035 Supercritical Steam Cycle for Lead Cooled Nuclear Systems  
Mr. C. Boehm (U. Karlsruhe), Dr. J. Starfingler (FZK), Prof. T. Schulenberg (FZK), Dr. H. Oeynhausen (Siemens)
- 425 Corrosion Resistance of High Cr Steels and Ceramic Materials in Lead-Bismuth Flow  
Dr. M. Takahashi (TITECH), Mr. M. Kondo (TITECH)
- 503 Performance of Solid Electrolyte Type Oxygen Sensor in Flowing Lead Bismuth  
Mr. M. Kondo (TITECH), Dr. M. Takahashi (TITECH)
- Oct. 12, 16:10-18:00, 402
- 4C HTGR and gas-cooled reactor systems II; Fuels, Materials & Fuel Cycles  
Mr. Y. Tsuchie (JAPC), Dr. Yonghee Kim (KAERI)
- 067 Spent Nuclear Fuel Characterization for a VHTR  
Dr. T. K. Kim (ANL), Dr. T. A. Taiwo (ANL), Dr. R. N. Hill (ANL), Dr. J. A. Stillman (ANL)
- 263 Helium Chemistry in High-Temperature Gas-Cooled Reactors - Chemistry control for avoiding Hastelloy XR corrosion in the HTTR-IS system -  
Mr. N. Sakaba (JAERI), Mr. Y. Hirayama (MHI)
- 274 Multiscale approach for investigating properties of high temperature materials  
Dr. M. A. Pouchon (PSI), Dr. J. Chen (PSI), Mr. M. Samaras (PSI), Mr. J. Tharian (EMPA), Prof. W. Hoffelner (PSI)
- 285 Coatings Tribology behavior in high temperature helium  
Dr. L. Cachon (CEA), Mr. S. Albaladejo (CEA), Mr. P. Taraud (CEA)
- Oct. 12, 10:10-12:30, 403
- 8A Optimization in management and treatment of radioactive wastes including HLW, ILW, LLW, TRU and other waste IV  
Dr. J. Lorentzen (Studsvik Nuclear AB), Mr. H. Asano (RWMC)
- 016 The ZWILAG Incinerator and Melting Furnace  
Mr. W. M. Heep (ZWILAG)
- 057 20 years of Experience on Treatment of large contaminated Components and on Clearance of material for Recycling  
Dr. J. Lorenzen (Studsvik), Dr. M. Lindberg (Studsvik)
- 277 System of the Advanced Volume Reduction Facilities for LLW at JAERI  
Mr. H. Higuchi (JAERI), Mr. T. Monma (JAERI), Dr. N. Nakasio (JAERI), Mr. K. Kozawa (JAERI), Mr. T. Tohei (JAERI), Mr. T. Sudo (JAERI), Mr. M. Mitsuda (JAERI), Mr. S. Kurosawa (JAERI), Mr. K. Henmi (JAERI), Mr. J. Ishikawa (JAERI), Mr. M. Kato (JAERI), Mr. M. Sato (JAERI)
- Oct. 12, 13:50-15:40, 403
- 8A Optimization in management and treatment of radioactive wastes including HLW, ILW, LLW, TRU and other waste V  
Dr. J. Lorentzen (Studsvik Nuclear AB), Mr. H. Asano (RWMC)
- 296 Process Technique and Safety Features of the German VEK Vitrification Plant Currently under Commissioning  
Dr. G. Roth (FZK), Dr. S. Weisenburger (FZK), Dr. F. Joachim (FZK), Dr. M. Weishaupt (FZK)
- 298 Overview and New Developments Concerning Measurement Methods of Glass Level in Large-Scale Radioactive Waste Glass Melters  
Dr. S. Weisenburger (FZK), Mr. W. Gruenewald (FZK), Dr. G. Roth (FZK), Mr. W. Tobie (FZK)

- 182 New Confinement for the Shelter Object: Arch or Monolith?  
Mr. A. M. Kamalovich (GTN), Mr. M. I. Klimovich ( ), Prof. T. V. Vladimirovich (Technocentre)
- 287 Peer Review for Conceptual Design of the New Safe Confinement for the Chernobyl NPP Shelter Object  
Dr. K. V. Ippolitovich (Slavutich), Prof. S. V. Mikhailovich (REC), Prof. S. E. Vladimirovich (IGE), Prof. T. V. Vladimirovich (Technocentre), Prof. Y. V. Veryuzhsky (RIMQPP)
- Oct. 12, 16:10-18:00, 403
- 8A Optimization in management and treatment of radioactive wastes including HLW, ILW, LLW, TRU and other waste VI  
Dr. B. Kienzler (FZK), Prof. S. Nagasaki (U. Tokyo)
- 337 PROVEN TECHNOLOGIES FOR THE TREATMENT OF COMPLEX LIQUID WASTE STREAMS: U.S. DEPARTMENT OF ENERGY AND INTERNATIONAL CASE STUDIES  
Mr. D. Kelley (Pacific World Trade), Mr. D. Campbell (Nochar, Inc.)
- 352 INNOVATIVE TECHNOLOGY FOR RADWASTE TREATMENT FOR NEW APPLICATIONS  
Dr. Y. A. Pokhitonov (KRI), Mr. E. Kolobov (KRI), Mr. A. Orlov (KRI), Mr. D. Kelley (Pacific World Trade)
- 004 Pu, Np and U valence states and type of molecules determination by chemiluminescence effects and pulse laser spectroscopy methods  
Dr. I. N. Izosimov (KRI), Dr. N. G. Gorshkov (KRI), Dr. L. G. Mashirov (KRI), Mr. N. G. Firsin (KRI)
- 134 Removal of Chromium from High-Level Nuclear Wastes: Characterization and Oxidation of Chromium(III) in Alkaline Solutions  
Dr. L. Rao (LBL), Dr. H. Jiang (LBL), Mr. Z. Zhang (Washington State U.), Prof. S. B. Clark (Washington State U.), Dr. D. Rai (PNNL)
- Oct. 12, 10:10-12:30, 404
- 10B Advancement of accelerator and its application I  
Dr. G. Rimpault (CEA), Dr. T. Suzuki (FZK)
- 291 Status of MA transmutation feasibility studies for Lead-Bismuth-cooled Accelerator Driven System  
Dr. F. Bianchi (ENEA), Dr. G. Rimpault (CEA), Dr. V. Peluso (ENEA), Dr. R. Calabrese (ENEA)
- 328 MYRRHA: A European Experimental ADS for R&D application Status at mid-2005 and Prospectives towards Future  
Dr. P. J. D'hondt (SCK-CEN), Dr. H. Ait Abderrahim (SCK-CEN)
- 453 Research and Development Program on Accelerator Driven Subcritical System in JAERI  
Dr. K. Tsujimoto (JAERI), Dr. H. Oigawa (JAERI), Dr. N. Ouchi (JAERI), Dr. K. Kikuchi (JAERI), Dr. Y. Kurata (JAERI), Dr. M. Mizumoto (JAERI), Dr. T. Sasa (JAERI), Mr. K. Nishihara (JAERI), Mr. S. Saito (JAERI), Mr. M. Umeno (JAERI), Mr. Y. Tazawa (JAERI)
- 573 Status and Main Problems of the Development of Pilot Molten Lead-Bismuth Spallation Target for the ADS of 1-MW Power  
Dr. S. V. Ignatiev (IPPE), Dr. M. P. Leonchuk (IPPE), Prof. Y. I. Orlov (IPPE), Prof. D. V. Pankratov (IPPE), Mr. G. P. Suvorov (IPPE), Prof. G. I. Toshinsky (IPPE), Dr. A. N. Zabudko (IPPE)
- Oct. 12, 13:50-15:40, 404
- 10B Advancement of accelerator and its application II  
Dr. P. J. D'hondt (SCK-CEN), Dr. K. Tsujimoto (JAERI)
- 113 REGULATION OF THE ADS TARGET NEUTRON SPECTRUM BY CHANGING THE TARGET MATERIAL ISOTOPIC COMPOSITION  
Dr. G. L. Khorasanov (IPPE), Mr. A. P. Ivanov (IPPE), Dr. A. I. Blokhin (IPPE)
- 115 Sub-channel Analysis of LBE-Cooled Fuel Assemblies of Accelerator Driven Systems  
Dr. X. Cheng (FZK), Dr. D. Hwang (KAERI)
- 513 Lessons Learned from the Analysis of the MUSE-4 Sub-critical Experiments  
Dr. R. Jacqmin (CEA), Dr. J. Lebrat (CEA), Dr. G. Rimpault (CEA), Mr. F. Mellier (CEA)
- 534 MEGAPIE Target : a relevant demonstration for ADS  
Dr. C. Latge (CEA), Dr. F. Groeschel (PSI), Dr. P. Agostini (ENEA), Dr. M. Dierckx (SCK-Mol), Dr. C. Fazio (FZK), Dr. T. Kirchner (Subatech Ecole), Dr. Y. Kurata (JAERI), Mr. G. Laffont (CEA), Dr. T. Song (KAERI), Dr. K. Thomsen (PSI), Dr. W. Wagner (PSI), Dr. K. Woloshun (LANL)
- Oct. 12, 16:10-18:00, 404
- 10B Advancement of accelerator and its application III  
Dr. P. J. D'hondt (SCK-CEN), Dr. K. Tsujimoto (JAERI)
- 039 Reference structural materials characterisation, heavy liquid metal technology and thermal-hydraulics for European waste transmutation ADS  
Dr. C. Fazio (FZK), Dr. A. Alamo (CEA), Dr. A. Al Mazouzi (SCK-CEN), Dr. D. Gomez Briceno (CIEMAT), Dr. F. Groeschel (PSI), Dr. F. Roelofs (NRG), Dr. P. Turroni (ENEA), Dr. J. Knebel (FZK)
- 114 Designing a Gas Cooled ADS for Enhanced Waste Transmutation: the CEA contribution  
Dr. G. Rimpault (CEA), Ms. S. Pillon (CEA), Mr. P. Richard (CEA), Mr. G. Granget (CEA), Mr. F. Varaine (CEA), Mr. D. Warin (CEA)
- 472 Design Study of the J-PARC Transmutation Experimental Facility  
Dr. T. Sasa (JAERI)
- 477 Comparative Study of the Transient Behaviour of the 80MWth LBE- and Gas-cooled XADS Using TRAC/AAA  
Dr. K. Mikityuk (PSI), Dr. P. Coddington (PSI), Dr. E. Bubelis (PSI)
- Oct. 12, 10:10-12:30, 405
- 11A-1 Non-proliferation technologies  
Dr. L. Koch (ITU), Dr. T. Adachi (JCAC)
- 169 Increase in the Role of Destructive Analysis for Safeguards Verification - A Strong Measure Against World Concerns on Nuclear Proliferation -  
Dr. Y. Kuno (IAEA), Dr. D. L. Donohue (IAEA), Mr. M. L. Hedberg (IAEA), Dr. S. D. Balsley (IAEA)
- 422 Establishing the Joint IAEA/JSO /NMCC Safeguards On Site Laboratory for the Rokkasho Reprocessing Plant  
Mr. G. E. Duhamel (IAEA)
- 084 Informativeness of Morphology Analysis of Uranium Microparticles from Industrial Dust at Nuclear Plants  
Dr. V. A. Stebelkov (Lab. Microparticle Analysis)
- 024 Research Activities for Development of CTBT-Related Technologies in JAERI  
Dr. N. Shinohara (JAERI), Mr. Y. Asano (JAERI), Mr. N. Hirota (JAERI), Mr. T. Houkida (JAERI), Mr. Y. Inoue (JAERI), Mr. M. Kumata (JAERI), Mr. Y. Nakahara (JAERI), Mr. T. Oda (JAERI), Ms. T. Uchikoshi (JAERI), Mr. Y. Yamamoto (JAERI)
- Oct. 12, 13:50-15:40, 405
- 11B-1 Proliferation Resistance I  
Dr. C. Braun (CISAC), Dr. M. Senzaki (JNC)
- 475 Comparative analysis of proliferation resistance assessment methodologies  
Dr. N. Takaki (NMCC), Ms. N. Inoue (JNC), Dr. M. Kikuchi (NMCC), Mr. T. Osabe (INMM)
- 356 Evaluation Methodology for Proliferation Resistance and Physical Protection of Generation IV Nuclear Energy Systems  
Dr. R. A. Bari (BNL), Dr. P. Peterson (UCB), Dr. R. Nishimura (AECL), Dr. J. Roglans (ANL)

- 363 Evaluation of changes in radiation burden of closed fuel cycle at uranium denaturing with U-232  
Dr. E. F. Kryuchkov (MEPHI), Dr. V. B. Glebov (MEPHI), Dr. V. A. Apse (MEPHI), Prof. A. N. Shmelev (MEPHI)
- 384 Pragmatic approaches for assessing and Implementing Proliferation Resistance of nuclear systems  
Dr. D. Greneche (COGEMA)
- Oct. 12, 16:10-18:00, 405
- 11B-1 Proliferation Resistance II  
Dr. C. Braun (CISAC), Dr. M. Senzaki (JNC)
- 590 A Safe Nuclear Fuel Management Strategy without Sensitive Technology and Weapon Useable Material  
Dr. L. Koch (ITU), Dr. T. Inoue (CRIEPI), Dr. T. Yokoo (CRIEPI)
- 516 FUEL CYCLE WITH PYRPROCESS FROM THE PERSPECTIVE OF PROLIFERATION RESISTANCE  
Dr. T. Inoue (CRIEPI)
- 172 Advanced Reactor Concepts with Enhanced Proliferation Resistance by Transmutation of Minor Actinides  
Dr. M. Saito (TITECH)
- Oct. 12, 10:10-12:30, 406
- 8C Strategy, system and regulations for waste management  
Dr. C. Hardy (ANA), Mr. H. Ishikawa (JNC)
- 479 Invited Lecture: A New Look on the Safety Case for Geologic Disposal  
Dr. H. Riotte (OECD), Dr. C. Pescatore (OECD), Ms. S. Voinis (OECD)
- 185 Invited Lecture: Environmental Impact of Yucca Mountain Repository  
Prof. J. Ahn (UCB), Ms. L. Ackerman (UCB)
- 522 Geologic Disposal of Radioactive Waste in applying Partitioning-Transmutation Technology to Nuclear Fuel Cycle  
Dr. S. Nakayama (JAERI), Dr. Y. Morita (JAERI), Mr. K. Nishihara (JAERI), Dr. H. Oigawa (JAERI)
- 523 Cost Analysis of Direct Disposal of Spent Fuel in Japan  
Mr. M. Yui (JNC), Mr. S. Kawakami (JNC), Mr. H. Makino (JNC)
- 540 Enhancing the reliability of technical basis to support the HLW disposal program in Japan  
Dr. H. Ishikawa (JNC), Dr. H. Umeki (JNC), Dr. M. Naito (JNC), Dr. A. Kitamura (JNC), Dr. K. Shimizu (JNC), Dr. K. Miyahara (JNC)
- Oct. 12, 13:50-15:40, 406
- 8E Advanced technologies for interim storage of SF  
Mr. W. M. Heep (ZWILAG), Dr. H. Ueda (NUMO)
- 313 Impact on Spent Fuel Management  
Dr. M. Richards (GA), Dr. F. Venneri (GA), Dr. D. W. Mceachern (GA)
- 574 Some Approaches to Treat SNF of Alfa Class NS's  
Dr. S. V. Ignatiev (IPPE), Dr. E. M. Khudyakov (IPPE), Mr. P. V. Khvostov (IPPE), Prof. D. V. Pankratov (IPPE), Prof. G. I. Toshinsky (IPPE), Dr. A. N. Zabudko (IPPE)
- 575 Instantaneous Leakage from Metal Cask during Drop Test  
Mr. H. Takeda (CRIEPI), Mr. N. Kageyama (CRIEPI), Mr. M. Wataru (CRIEPI), Mr. R. Sonobe (CRIEPI), Dr. K. Shirai (CRIEPI), Dr. T. Saegusa (CRIEPI)
- 576 Study on Evaluation of Contents Integrity Stored in Dry Cask during Interim Storage  
Mr. S. Itooka (JNES), Mr. T. Yokoyama (JNES), Mr. M. Kato (JNES)
- Oct. 13, 8:30-10:50, Main Convention Hall
- 2A Plenary Panel II; Prospect on the projected quantities of nuclear systems in the future  
Dr. K. Uematsu, Dr. J. Bouchard
- (No title)  
Mr. D. Nicholls (PBMR)
- (No title)  
Dr. B. Raj (IGCA)
- (No title)  
Dr. P. Fehrenbach (AECL)
- (No title)  
Dr. S. Ion (BNFL)
- (No title)  
Dr. K. J. Lee (KAIST)
- (No title)  
Prof. T. Tanaka (AESJ)
- Oct. 13, 14:10-16:00, 200
- 15A International cooperation and its framework  
Dr. T. Ogawa (JAERI), Dr. L. Koch (ITU)
- 139 Is It Time to Consider Global Sharing of Integral Physics Data?  
Dr. H. F. Mcfarlane (ANL)
- 584 The Role of Research Reactor and Its Future  
Prof. Y. Nakagome (Kyoto U.)
- 355 The Establishment of the Dalton Nuclear Institute by The University of Manchester in the UK.  
Prof. R. Clegg (U. Manchester)
- 025 ACTINET : a European Network for Actinide Sciences  
Dr. P. Chaix (CEA)
- Oct. 13, 11:00-12:50, 201
- 3F System assessment of the total fuel cycle including modeling methods and tools I  
Prof. S. Sato (Hokkaido U.), Dr. Hangbok Choi (KAERI)
- 149 TIRELIRE-STRATEGIE: A FUEL CYCLE SIMULATION CODE FOR EDF NUCLEAR STRATEGY STUDIES  
Dr. S. Massara (EDF), Dr. P. Tetart (EDF), Dr. C. N. Garzenne (EDF)
- 165 Scenario Analyses of Future UK Fuel Cycle Options  
Mr. A. Worrall (Nexia Solutions), Mr. R. Gregg (Nexia Solutions)
- 485 The Multidimensional Evaluation on FR Cycle Systems (the FS Phase II Evaluation)  
Mr. H. Shiotani (JNC), Dr. H. Kawasaki (JNC), Ms. K. Mukaida (JNC), Mr. K. Ono (JNC)
- 550 Development of integrated systems dynamics models for the sustainability assessment of nuclear energy  
Dr. L. G. Van Den Durpel (ANL), Dr. A. M. Yacout (ANL), Dr. D. Wade (ANL), Dr. G. Conzelmann (ANL), Dr. V. Karitarov (ANL), Dr. R. Cirillo (ANL), Dr. S. Hirshberg (PSI), Dr. R. Dones (PSI)
- Oct. 13, 14:10-16:00, 201
- 3F System assessment of the total fuel cycle including modeling methods and tools II  
Mr. K. Ono (JNC), Mr. A. Baxter (GA)
- 167 Study of An Integrated Multi-criteria Evaluation Method on Energy&Environmental System Based on MFM  
Dr. J. Liu (Kyoto U.)
- 505 Comparative Study on Plutonium and MA Recycling in Equilibrium Burnup and Standard Burnup of PWR  
Dr. A. Waris (ITB), Dr. R. Kurniadi (ITB), Dr. S. Zaki (ITB), Mr. S. Permana (TITECH)
- 117 On Some Results of INPRO Methodology Case Study on the Basis of Fast Reactor With Sodium Coolant  
Prof. V. M. Poplavskiy (IPPE), Dr. V. Usanov (IPPE), Dr. A. Chebeskov (IPPE), Dr. V. Korobeynikov (IPPE), Dr. B. Tikhomirov (IPPE), Mr. S. Yugay (IPPE)
- 567 A Multi-Regional Analysis of Nuclear Energy Systems: Paths forward towards prosperity  
Dr. L. G. Van Den Durpel (ANL), Dr. D. Wade (ANL), Dr. A. Yavout (ANL), Dr. P. Finck (ANL)

- Oct. 13, 11:00-12:50, 202A
- 6D Reprocessing technological advancement I  
Dr. Yuezhou Wei (IRI), Dr. Peter Rance (BNFL)
- IL012 Invited Lecture: Fast Reactor Fuel Reprocessing - An Indian Perspective  
Dr. B. Raj (IGCAR), Mr. N. R. (IGCAR)
- 242 Fundamental Design of Advanced Disassembly System for FBR fuel reprocessing  
Mr. Y. Tooya (JNC), Mr. T. Washiya (JNC), Mr. S. Aose (JNC)
- 248 System Performance Test of Mechanical Decladding System for FBR Fuel Reprocessing  
Mr. K. Koizumi (JNC), Mr. T. Washiya (JNC), Mr. S. Aose (JNC)
- 372 On the Oxidation of MOx Fuel as a Potential Head-End Reprocessing Step  
Dr. P. J. Rance (Nexia Solutions), Dr. V. I. Beznosyuk (KRI)
- Oct. 13, 14:10-16:00, 202A
- 6D Reprocessing technological advancement II  
Mr. T. Washiya (JNC), Dr. B. Raj (IGCAR)
- 160 Hybrid Processing of Spent Fuel  
Dr. G. D. Del Cul (ORNL), Dr. B. B. Spencer (ORNL), Mr. E. D. Collins (ORNL)
- 345 Fission Product Removal from Spent Oxide Fuel by Head-End Processing  
Mr. B. R. Westphal (INL), Mr. K. J. Bateman (INL), Mr. P. R. Lind (INL), Dr. K. L. Howden (INL), Dr. G. D. Del Cul (ORNL)
- 253 U(VI) Back-extraction Trials for Measurement of U(VI) Mass Transfer Efficiency in Single Stage Centrifugal Contactor  
Dr. Y. Sano (JNC), Mr. A. Shibata (JNC), Mr. T. Koizumi (JNC), Mr. T. Koyama (JNC), Dr. D. O. Fox (Nexia Solutions), Dr. M. Carrott (Nexia Solutions), Dr. R. Taylor (Nexia Solutions)
- 305 Development of Engineering Scale Centrifugal Contactor System in JNC  
Mr. T. Washiya (JNC), Dr. M. Takeuchi (JNC), Mr. T. Suganuma (JNC), Mr. S. Aose (JNC)
- Oct. 13, 11:00-12:50, 202B
- 4C HTGR and gas-cooled reactor systems III; Reactor Physics  
Dr. N. Sakaba (JAERI), Dr. Gerald Rimpault (CEA)
- 310 Physics and Performance of the DB-MHR  
Dr. F. Venneri (GA), Dr. D. W. Mceachern (GA), Mr. A. Baxter (GA), Mr. M. Fikani (GA)
- 545 Preliminary Studies of Gas Cooled Fast Reactor Core Designs with Ceramic Cladding  
Ms. H. Beaumont (NNC), Mr. D. Every (Nexia Solutions)
- 548 Elimination of Double-Heterogeneity through a Reactivity-Equivalent Physical Transformation  
Dr. Y. Kim (KAERI), Dr. B. Min (MST)
- 549 Physics Study for a Long-Cycle, High-Burnup Prismatic Fuel Assembly  
Dr. Y. Kim (KAERI), Mr. W. Kim (MST)
- Oct. 13, 14:10-16:00, 202B
- 4C HTGR and gas-cooled reactor systems IV; Thermal & Mechanical Performances  
Dr. T. Shibata (JAERI), Dr. Manuel Alexandre Pouchon (PSI)
- 214 Full-Integrated System of Real-Time Monitoring Based on Distributed Architecture for High Temperature Engineering Test Reactor (HTTR)  
Mr. S. Muhammad (Kyushu U.), Dr. T. Ohno (Kyushu U.), Prof. K. Kudo (Kyushu U.), Dr. K. Takamatsu (JAERI), Dr. K. Nabeshima (JAERI)
- 261 Vessel Cooling System Performance of High Temperature Engineering Test Reactor (HTTR)  
Mr. A. Saikusa (JAERI), Mr. S. Hamamoto (JAERI), Mr. S. Watanabe (JAERI), Mr. T. Mizushima (JAERI)
- 376 Investigation of Heat Transfer in the Test Sections of Pebble Beds placed between Axially Streamlined Cylinders  
Dr. S. Rimkevicius (LEI), Prof. E. Uspuras (LEI)
- 527 Thermal Performance of Brayton Power Cycles: A Study based on High Gas Temperature Reactors  
Dr. L. E. Herranz (CIEMAT), Dr. J. I. Linares (U. Pontificia Comillas), Dr. B. Y. Moratilla (U. Pontificia Comillas)
- Oct. 13, 11:00-12:50, 300
- 11A-2 Non-proliferation regimes I  
Dr. D. Greneche (AREVA), Dr. M. Kikuchi (NMCC)
- 085 Energy Security Initiative (ESI) - A New Positive Nonproliferation Policy Tool  
Dr. C. Braun (Stanford U.)
- 280 Nuclear fuel cycle industry : a responsible approach supporting non proliferation efforts in a global perspective  
Ms. C. Jorant (AREVA)
- 494 Nonproliferation Challenges in a Sustainable Nuclear Future  
Mr. T. H. Isaacs (LLNL), Dr. J. - . Choi (LLNL)
- 336 Nonproliferation Norms in Civilian Nuclear Fuel Cycle, Japanese model  
Mr. T. Kawata (JNC)
- Oct. 13, 14:10-16:00, 300
- 11A-2 Non-proliferation regimes II  
Dr. D. Greneche (AREVA), Dr. M. Kikuchi (NMCC)
- 100 International Regime of Fresh Fuel Supply and Spent Fuel Disposal  
Dr. C. Braun (Stanford U.), Prof. M. M. May (Stanford U.)
- 070 Safeguards and an Internationalized Nuclear Fuel Cycle for East Asia  
Dr. J. N. Olsen (JNC)
- 468 Establishment of the Japan Atomic Energy Agency and its Strategy for Nuclear Non-Proliferation Studies  
Dr. M. Senzaki (JNC), Ms. N. Inoue (JNC), Mr. T. Wakabayashi (JAERI), Mr. T. Kurasaki (JAERI)
- Oct. 13, 11:00-12:50, 303
- 5D Fuel fabrication technology advancement I  
Dr. S. B. Grover (INL), Mr. T. Namekawa (JNC)
- 323 EVALUATING SOME PHYSICAL CHARACTERISTICS OF A COATED PUC FUEL  
Prof. E. M. Leite (CCTN), Prof. C. Lima (CCTN)
- 338 Nitride Fuel Elaboration for the "Futurix Concepts" Irradiation  
Mr. S. S. Vaudez (CEA), Dr. E. E. Abonneau (CEA), Mr. L. Paret (CEA)
- 506 Fabrication of Plutonium Coated Particle Fuel from Excess Weapons Plutonium in Russia  
Dr. N. G. Kodochigov (OKBM), Dr. I. Suslov (OKBM), Dr. N. Ponomarev-stepnoi (Kurchatov Institute), Dr. Y. Degaltsev (Kurchatov Institute), Dr. V. Novikov (VNIINM), Dr. I. Kadarmetov (VNIINM), Dr. V. Makarov (VNIINM), Dr. A. Chernikov (LUTCH), Dr. D. W. Mceachern (GA), Dr. R. Noren (GA), Dr. D. Williams (ORNL)
- 532 Design of the Advanced Gas Reactor Fuel Experiments for Irradiation in the Advanced Test Reactor  
Mr. S. B. Grover (INL)
- Oct. 13, 14:10-16:00, 303
- 5D Fuel fabrication technology advancement II  
Dr. S. B. Grover (INL), Mr. T. Namekawa (JNC)
- 195 Vibro-Packing experiment of Granular UO2 with Uranium Particles  
Mr. S. Matsuyama (JNC), Mr. K. Ishii (JNC), Mr. M. Hirai (NFD), Mr. Y. Tsuboi (Toshiba), Mr. Y. Kihara (JNC)

- 541 LESSONS LEARNED FROM MELOX PLANT OPERATION AND SUPPORT TO DESIGN OF NEW MOX PLANTS  
Dr. J. Tourre (SGN), Dr. R. Gattegno (SGN), Dr. P. Guay (COGEMA), Dr. J. P. Bariteau (MELOX)
- 424 Conceptual Design Study and Evaluation of Advanced Fuel Fabrication Systems in the Feasibility Study on Commercialized FR Cycle System in Japan  
Mr. T. Namekawa (JNC), Mr. K. Kawaguchi (JNC), Mr. K. Koike (JNC), Mr. S. Haraguchi (JNC), Mr. S. Ishii (JNC)
- 311 Nuclear Fuel issues of the DB-MHR  
Dr. D. W. Mceachern (GA), Dr. F. Venneri (GA)
- Oct. 13, 11:00-12:50, 402
- 4A Advancement of water cooled reactors III; Near-term water reactors-3  
Mr. K. Arai (Toshiba), Mr. M. Delpech (CEA)
- 335 EPR, spearhead of the nuclear renaissance  
Mr. J. Lavigne (AREVA)
- 528 Advanced WWER Designs for Future Nuclear Power Plants  
Dr. Y. G. Dragunov (Gidropress), Dr. S. B. Ryzhov (Gidropress), Mr. I. G. Shechekin (Gidropress), Dr. N. S. Fil (Gidropress)
- 194 The development of the next generation ABWR(AB1600)  
Mr. A. Murase (Toshiba), Mr. H. Imaruoka (Toshiba), Mr. M. Nakamaru (Toshiba), Mr. M. Kuroki (Toshiba), Mr. Y. Kojima (Toshiba), Mr. S. Yokoyama (Toshiba)
- 392 Human Factors Verification and Validation of the Advanced Nuclear Plant Control Room Design  
Mr. R. Gutierrez (GE), Mr. D. Zizzo (GE), Dr. K. Yu (GE)
- Oct. 13, 14:10-16:00, 402
- 4A Advancement of water cooled reactors IV; Near-term water reactors-4  
Mr. Y. Ishii (Hitachi), Mr. J. J. Lavigne (AREVA)
- 105 Development of Advanced Boiling Water Reactor for Medium Capacity  
Mr. K. Hisajima (Toshiba), Mr. Y. Asanuma (Toshiba)
- 454 Development of medium small BWR "DMS" (Double MS: Modular Simplified & Medium Small Reactor)  
Mr. S. Yokouchi (Hitachi), Mr. Y. Shimizu (Hitachi), Mr. S. Inoue (Hitachi), Mr. K. Tominaga (Hitachi), Mr. T. Hida (JAPC)
- 386 Subchannel Analysis of 37-rod tight-lattice bundle experiments for Reduced-Moderation Water Reactor  
Dr. T. Nakatsuka (JAERI), Dr. H. Tamai (JAERI), Dr. H. Akimoto (JAERI)
- Oct. 13, 11:00-12:50, 403
- 8B Advancement in LLW and TRU waste disposal  
Dr. N. Toyohara (Toshiba),
- 095 Permeability Change of Packed Bed with an Amorphous Silicate Mineral by Highly Alkaline Plume  
Mr. H. Usui (Tohoku U.), Dr. Y. Niibori (Tohoku U.), Dr. K. Tanaka (Tohoku U.), Prof. O. Tochiyama (Tohoku U.), Prof. H. Mimura (Tohoku U.)
- 034 Nuclear Waste Disposal: Geochemical Methods for Performance Assessment  
Dr. B. Kienzler (FZK), Dr. V. Metz (FZK), Dr. J. Luetzenkirchen (FZK), Prof. T. Fanghaenel (FZK)
- 351 Development of waste package for TRU-disposal (1) - Concepts and Performances -  
Dr. H. Owada (RWMC), Mr. A. Otsuki (RWMC), Mr. H. Asano (RWMC)
- 254 Development of waste package for TRU-disposal (4) -Evaluation of Confinement Performance of TRU Waste Package Made of High-Strength and Ultra Low-Permeability Concrete-  
Mr. T. Kawasaki (Hitachi), Mr. T. Yoshida (Hitachi), Dr. T. Matsuo (Hitachi), Mr. H. Asano (RWMC), Dr. H. Owada (RWMC), Mr. A. Otsuki (RWMC), Mr. K. Shibuya (Taiheiyō Consultant), Mr. A. Takei (Taiheiyō Cement)
- Oct. 13, 11:00-12:50, 405
- 10A Accelerator driven subcritical systems II  
Dr. M. Pesic (Vinca), Dr. T. Misawa (Kyoto U.)
- 083 Study on Possible Usage of Low Enriched UO<sub>2</sub> TVR-S Type Fuel Elements for Design of an Experimental ADS Research Reactor  
Dr. M. Pesic (Vinca Institute)
- 158 Application of ADS for Breeding of <sup>233</sup>U  
Prof. B. Bergelson (ITEP), Prof. A. Gerasimov (ITEP), Dr. G. Tikhomirov (MEPHI)
- 349 Research on Accelerator Driven Subcritical Reactor at Kyoto University Critical Assembly (KUCA)  
Dr. T. Misawa (Kyoto U.), Prof. H. Unesaki (Kyoto U.), Prof. C. H. Pyeon (Kyoto U.), Dr. C. Ichihara (Kyoto U.), Mr. H. Morgan (Kyoto U.), Mr. Y. Hirano (Kyoto U.), Dr. Y. Kitamura (Nagoya U.), Prof. S. Shiroya (Kyoto U.)
- 367 Research Project on Accelerator-driven Subcritical System Using FFAG accelerator and Kyoto University Critical Assembly  
Prof. K. Mishima (Kyoto U.), Prof. H. Unesaki (Kyoto U.), Dr. T. Misawa (Kyoto U.), Dr. M. Tanigaki (Kyoto U.), Prof. Y. Mori (Kyoto U.), Prof. S. Shiroya (Kyoto U.), Prof. M. Inoue (Kyoto U.), Mr. S. Fukumoto (MELCO), Mr. Y. Ishi (MELCO)
- Oct. 13, 14:10-16:00, 405
- 10A Accelerator driven subcritical systems III  
Dr. M. Pesic (Vinca), Dr. T. Misawa (Kyoto U.)
- 268 Neutron flux measurements in the TRADE experiment : Critical and sub-critical configurations  
Dr. G. Ban (LPCC), Dr. F. Lecolley (LPCC), Dr. J. Lecouey (LPCC), Prof. J. Lecolley (LPCC), Dr. N. Marie (LPCC), Dr. J. Steckmeyer (LPCC), Dr. R. Rosa (ENEA), Dr. G. Imel (ANL), Dr. S. Andriamonje (CEA)
- 278 IAEA - BENCHMARK FOR A.D.S. AND DUBNA CASCADE CODE  
Prof. V. Kumar (U. Rajasthan), Dr. H. Kumawat (U. Rajasthan), Mr. M. Sharma (U. Rajasthan)
- 292 Investigation of the validity of the point-kinetic approximation for subcritical heterogeneous systems in 2-group diffusion theory for measurement of the reactivity in ADS  
Dr. C. Demaziere (Chalmers U.), Prof. I. Pazsit (Chalmers U.), Ms. J. Wright (Chalmers U.)
- 326 Radiation shielding design studies of the accelerator-driven system demonstrator SAD  
Mr. P. Seltborg (KTH), Dr. A. Polanski (JINR), Mr. S. Petrochenkov (JINR), Dr. A. Lopatkin (RDIPE), Prof. W. Gudowski (KTH), Dr. V. Shvetsov (JINR)
- Oct. 13, 16:20-17:10, Main Convention Hall
- Closing Address
- Poster Session
- 001 AN INNOVATION ON NUCLEAR FUEL AS A MORE SUITABLE INHERENT SAFETY APPROACH FOR THE EXISTING AND NEW NUCLEAR POWER PLANTS  
Mr. S. Mehedinteanu ( )
- 002 The Effect of System Pressure on the two-phase Flow Stability  
Mr. H. N. Abdou (CNEA), Dr. V. B. Gareia (INVAP), Dr. A. E. Larreteguy (U. Argentina)

- 008 EXTRACTING PERFORMANCE OF CESIUM BY 25,27-BIS(2-PROPYLOXY) CALIX[4]-26,28-CROWN-6(IPRC[4]C-6)  
Prof. J. Wang (Tsinghua U.), Prof. C. Song (Tsinghua U.), Prof. J. Chen (Tsinghua U.)
- 023 Plutonium ageing and MOX fuel performance  
Dr. M. Lippens (Belgonucleaire), Mr. B. Lance (Belgonucleaire), Ms. D. Boulanger (Belgonucleaire), Mr. Y. Vanderborck (Belgonucleaire)
- 038 EFFECT OF SOLUBILITY ON REDUCTIVE EXTRACTION OF ACTINIDE AND LANTHANIDE ELEMENTS IN MOLTEN CHLORIDE  
Prof. H. Moriyama (Kyoto U.), Mr. D. Yamada (Kyoto U.), Mr. K. Moritani (Kyoto U.), Dr. T. Sasaki (Kyoto U.), Dr. I. Takagi (Kyoto U.), Dr. K. Kinoshita (CRIEPI), Prof. H. Yamana (Kyoto U.)
- 042 MAPu oxalic mother liquor evaporator Experience feedback over 18 years of active operating of a zirconium equipment  
Mr. P. Chambrette (SGN), Ms. C. Vittoz (COGEMA)
- 049 Feasibility study on plutonium utilization in light water reactors with plutonium-thorium fuel  
Dr. V. M. Dekusar (IPPE), Dr. A. G. Kalashnikov (IPPE), Dr. A. N. Chebeskov (IPPE), Ms. Z. N. Chizhikova (IPPE), Ms. E. N. Kapranova (IPPE), Mr. V. E. Korobitsyn (IPPE)
- 050 WASTE MANAGEMENT IN THE ATALANTE FACILITY  
Mr. J. Chapelet (CEA)
- 053 ENHANCED ELECTROCHEMICAL OXIDATION OF SPENT ORGANIC SOLVENT UNDER ULTRASONIC AGITATION  
Mr. S. Sugikawa (JAERI), Mr. M. Umeda (JAERI), Mr. F. Kobayashi (JAERI), Mr. M. Nagata (JAERI), Mr. S. Dijiri (JAERI), Ms. M. Amano (KAKEN)
- 054 Development of Supercritical Fluid Extraction Facility inside a Glove Box for Removal of Actinides from Nuclear Waste  
Mr. K. Ramalingam (IGCAR), Dr. S. Nagarajan (IGCAR), Ms. S. Krishnamurthy (IGCAR), Mr. V. Vuttaradhi (IGCAR), Dr. S. G. Thandankorai (IGCAR), Dr. V. Polur (IGCAR)
- 069 The Site Investigation at the Next Rokkasho Disposal Facility  
Dr. T. Sasaki (JNFL)
- 079 BDE: an Experimental Database devoted to the storage and retrieval of Reactor Physics Integral Data  
Dr. P. D. Blaise (CEA)
- 087 THE PRELIMINARY PERFORMANCE ANALYSIS OF THE METAL FUEL FOR THE LEAD COOLED CRITICAL TRANSMUTATION REACTOR  
Mr. B. Lee (KAERI), Dr. T. Song (KAERI)
- 090 Selective Uptake of Palladium by Biopolymer Microcapsules Enclosing Insoluble Ferrocyanides  
Mr. T. Sakakibara (Tohoku U.), Prof. H. Mimura (Tohoku U.), Dr. Y. Niibori (Tohoku U.), Dr. K. Tanaka (Tohoku U.)
- 104 Mass Transfer Behaviors of Diffusing Elements from an Integrated Cathode in a Molten Salt Based Electrolytic Reduction Process of Spent Oxide Fuels  
Dr. B. Park (KAERI), Dr. S. Park (KAERI), Dr. C. Seo (KAERI), Dr. S. Park (KAERI)
- 106 Economic and Nonproliferation Attributes of Encapsulated Small Power Reactors  
Dr. C. Braun (Stanford U.), Prof. E. Greenspan (UCB)
- 110 Scale-up Effect in an Electrochemical Reduction of U3O8 in a LiCl-Li2O Molten Salt System  
Dr. S. Jeong (KAERI), Mr. S. Oh (KAERI), Dr. C. Seo (KAERI), Dr. J. Hur (KAERI), Mr. S. Hong (KAERI), Dr. S. Park (KAERI)
- 111 Electrochemical behavior of Uranium Oxide in a LiCl-Li2O Molten Salt with the Integrated Cathode Assembly  
Dr. S. Park (KAERI), Dr. B. Park (KAERI), Mr. D. Kang (KAERI), Dr. S. Kwon (KAERI), Dr. C. Seo (KAERI), Dr. S. Park (KAERI)
- 121 A Study on the Smelting of Electrolytically Reduced Spent Fuel by Using Surrogates  
Dr. J. Hur (KAERI), Mr. M. Jeong (KAERI), Dr. S. Cho (KAERI), Dr. C. Seo (KAERI), Dr. S. Park (KAERI)
- 122 Co-conversion of actinides in the frame of Generation IV back end fuel cycle: first results obtained in the CEA-ATALANTE facility  
Mr. S. Grandjean (CEA), Dr. A. Robisson (CEA), Mr. J. Dauby (CEA), Dr. S. Picart (CEA), Mr. M. Lecomte (CEA), Dr. M. Masson (CEA), Dr. P. Brossard (CEA)
- 123 HLW PARTITIONING BY COMBIENED SOLVENT ON THE BASIS OF CHLORINATED COBALT DICARBOLLIDE, ZIRCONIUM SALT OF DIBUTYL PHOSPHORIC ACID AND POLYETHYLENE GLYCOL  
Dr. Y. S. Fedorov (KRI), Dr. D. N. Shishkin (KRI), Dr. B. Y. Galkin (KRI), Prof. B. Y. Zilberman (KRI), Dr. O. V. Shmidt (KRI)
- 130 DEMONSTRATION OF REAL HLW REPROCESSING WITH THE USE OF CMPO BASED SOLID EXTRACTANTS ON INORGANIC MATRIX  
Mr. V. A. Kamachev (KRI), Dr. V. A. Babain (KRI), Mr. I. B. Kvasnitsky (KRI), Dr. A. Shadrin (KRI), Mr. Y. G. Krivitzky (MCC), Mr. V. V. Bondin (MCC), Mr. S. A. Alekseenko (MCC), Mr. T. Koyama (JNC), Dr. Y. Koma (JNC), Mr. M. Kamiya (JNC)
- 137 Investigation of Phase State of MOX with Np, Am and Nd  
Mr. K. Morimoto (JNC), Mr. M. Ogasawara (JNC), Mr. H. Uno (JNC), Mr. M. Kato (JNC), Mr. Y. Kihara (JNC)
- 142 Large-Scale Simulation of Rock Fracture Network for Mass Transport in Geologic Repository by Earth Simulator  
Mr. K. Tsujimoto (MMC), Prof. J. Ahn (UCB)
- 143 Study on the Recovery of TRU Elements by a Container-Aided Solid Cathode  
Dr. S. Kwon (KAERI), Ms. J. Oh (KAERI), Dr. B. Ahn (KAERI), Dr. M. Woo (KAERI), Mr. S. Hwang (KAERI), Dr. J. Lee (KAERI), Dr. E. Kim (KAERI), Dr. J. Yoo (KAERI), Dr. J. B. Shim (KAERI)
- 144 Electrodeposition characteristics of uranium in molten LiCl-KCl eutectic and distillation behavior  
Dr. J. Lee (KAERI), Mr. S. Hwang (KAERI), Dr. Y. Kang (KAERI), Dr. B. Ahn (KAERI), Dr. E. Kim (KAERI), Dr. J. Yoo (KAERI), Dr. H. Park (KAERI)
- 151 Spatial-time-dependent of thermal feedback reactivity during control-rod withdrawal test in the HTTR  
Mr. N. Nojiri (JAERI), Dr. K. Takamatu (JAERI), Mr. S. Nakagawa (JAERI), Mr. S. Shimakawa (JAERI)
- 154 The Influence of Calcium Ion on Dynamic Behavior of Colloidal-Silicic Acid in the Presence of Solid Phase  
Mr. T. Chida (CRIEPI), Dr. Y. Niibori (Tohoku U.), Prof. O. Tochiyama (Tohoku U.), Prof. H. Mimura (Tohoku U.), Dr. K. Tanaka (Tohoku U.)
- 187 Reduction of HLW Repository Environmental Impact by Na-Cooled FBR  
Prof. J. Ahn (UCB), Mr. T. Ikegami (JNC)
- 193 Radiation resistant Ni-Cr alloys  
Mr. M. I. Solonin (A.A.Bochvar Institute), Mr. V. V. Inozemtsev (A.A.Bochvar Institute), Mr. V. P. Kolotushkin (A.A.Bochvar Institute), Mr. I. I. Kononov (A.A.Bochvar Institute)
- 198 Fuel microsphere fabrication tests for sphere-pac fuel by the external gelation process  
Mr. Y. Tomita (JNC), Dr. M. Morihira (JNC), Mr. Y. Kihara (JNC), Mr. Y. Tamaki (MMC)



- 200 Development of the ERIX Process for Reprocessing Spent FBR-MOX Fuel - Selective Removal of Silver Ion from Simulated Spent Nuclear Fuel Solution by  $\text{HZr}_2(\text{PO}_4)_3$  -  
Dr. H. Takahashi (IRI), Dr. M. Kumagai (IRI)
- 202 A Neutronic Analysis of the Dry-Processed Oxide Fuel in Liquid Metal Fast Reactor  
Mr. G. Roh (KAERI)
- 203 Study of the N-17 reactor power monitor  
Mr. M. Komeda (JAERI)
- 205 Effects of Reductive Extraction Process on the Environmental Impact of Geologic Disposal  
Mr. D. Kawasaki (UCB), Prof. J. Ahn (UCB), Dr. M. Kurata (CRIEPI)
- 208 Composition of Insoluble Materials in High Active Liquid Waste at Tokai Reprocessing Plant  
Mr. T. Kuno (JNC), Mr. Y. Nakamura (JNC), Mr. M. Okano (JNC), Mr. S. Sato (JNC), Mr. M. Watahiki (JNC)
- 215 Numerical Study on the Heat Transfer to  $\text{CO}_2$  Flowing Upward in a Heated Vertical Tube at Supercritical Pressure  
Dr. B. Cho (KAERI), Dr. Y. Bae (KAERI)
- 216 The Electrodeposition and Rare Earths Reduction in the Molten Salt Actinides Recovery Systems Using Liquid Metal  
Dr. J. B. Shim (KAERI), Dr. J. H. Lee (KAERI), Dr. S. Kwon (KAERI), Dr. B. Ahn (KAERI), Dr. M. Woo (KAERI), Dr. B. J. Lee (KAERI), Dr. E. Kim (KAERI), Dr. J. Yoo (KAERI)
- 218 Conceptual Design Study of Advanced Pyroprocessing Facility for Recycling LWR Mixed-Oxide Fuel Using Electro-reduction and Electro-refining Techniques  
Mr. T. Nishimura (CRIEPI), Mr. Y. Sakamura (CRIEPI), Dr. T. Inoue (CRIEPI)
- 220 Requirement of Decontamination Factor for Near-Surface Disposal of PEACER Wastes  
Dr. S. I. Kim (KAIST), Prof. K. J. Lee (KAIST)
- 222 Studies on design of the engineered barrier system and mechanical stability of rock based on surface-based investigation of the Horonobe URL project  
Mr. S. Aoyagi (JNC), Mr. K. Tanai (JNC), Mr. H. Matsui (JNC), Mr. S. Kawakami (JNC), Mr. M. Yui (JNC)
- 223 Numerical Analysis on Diffusion Layer at the Electrode of MOX Co-deposition in the Oxide-electrowinning Process  
Dr. T. Sakai (JNC), Mr. T. Kawamura (NESI)
- 227 Experiments on the Behavior of Americium in Pyrochemical Process  
Dr. H. Hayashi (JAERI), Dr. M. Akabori (JAERI), Dr. K. Minato (JAERI)
- 231 C14, I129 and C136 gaseous LLRN Analysis in irradiated nuclear fuel : results and perspectives  
Dr. E. Esbelin (CEA), Mr. A. Vaudano (CEA), Mr. J. Dancausse (CEA)
- 233 Study on Reactivity Measurement by Source Multiplication Method at Subcritical Reactor  
Mr. Y. Shibata (Kyoto U.), Mr. T. Ogata (Kyoto U.), Dr. T. Misawa (Kyoto U.), Prof. C. H. Pyeon (Kyoto U.), Prof. H. Unesaki (Kyoto U.), Prof. S. Shiroya (Kyoto U.)
- 234 THE OUTLOOKS OF THE TECHNOLOGICAL FLOWSHEET DEVELOPMENT FOR RECOVERING OF TECHNETIUM FROM HLW  
Prof. B. Y. Zilberman (KRI), Dr. Y. A. Pokhitonov (KRI), Dr. M. G. Kirshyn (KRI), Dr. M. Ozawa (JNC), Dr. A. A. Blokhin (St. Petersburg's Tech. U.)
- 236 The clearance and disposal of uranium contaminated waste in Japan  
Mr. T. Yoshida (JNFL), Mr. N. Katayose (JNFL), Mr. S. Kawatsuma (JNC), Mr. T. Yato (JSNM)
- 238 Database development of fundamental properties for the buffer material in Japan  
Mr. H. Kikuchi (JNC), Mr. K. Tanai (JNC), Mr. M. Yui (JNC)
- 241 Decontamination of liquid radioactive wastes of low and intermediate activity level with a new biosorbent, Mycoton  
Mr. V. N. Kosyakov (Kurchatov Institute), Mr. I. E. Veleshko (Kurchatov Institute), Mr. N. G. Yakovlev (Kurchatov Institute), Mr. G. I. Kuznetsov (NIKIMT), Mr. L. I. Shklyar (NIKIMT), Mr. L. F. Gorovoy (ICBGE)
- 244 Dissolution Behavior of Amorphous Silica Altered in Highly Alkaline Solution  
Mr. T. Chida (CRIEPI), Dr. Y. Niibori (Tohoku U.), Prof. O. Tochiyama (Tohoku U.), Prof. H. Mimura (Tohoku U.), Dr. K. Tanaka (Tohoku U.)
- 247 Development of waste package for TRU-disposal (5) Development of cylindrical metal package for TRU wastes  
Mr. T. Mine (MES), Mr. H. Mizubayashi (MES), Mr. H. Asano (RWMC), Mr. A. Otsuki (RWMC), Dr. H. Owada (RWMC)
- 251 DEVELOPMENT OF NEUTRON COINCIDENCE COUNTER FOR ADVANCED SPENT FUEL CONDITIONING PROCESS: A HORIZONTALLY LAID GEOMETRY  
Dr. T. Lee (KAERI), Dr. S. Lee (KAERI), Dr. H. Kim (KAERI), Mr. D. Song (KAERI), Dr. W. Ko (KAERI), Mr. J. Hwan (KAERI), Dr. K. Jeong (KAERI), Dr. S. Park (KAERI)
- 255 CEA Atalante : High Level Process Shielded Line and High Level Analysis Shielded Line - the very first experiments  
Dr. M. Ranchoux (CEA), Dr. P. Blanc (CEA), Mr. D. Ode (CEA), Ms. C. Viallesoubranne (CEA)
- 256 Development of waste package for TRU-disposal (3) Examination of manufacturing technique of TRU waste package made of High- Strength and Ultra Low-Permeability Concrete  
Mr. K. Shibuya (Taiheiyō Consultant), Mr. H. Asano (RWMC), Dr. H. Owada (RWMC), Mr. A. Otsuki (RWMC), Mr. T. Kawasaki (Hitachi), Mr. T. Yoshida (Hitachi), Dr. T. Matsuo (Hitachi), Mr. A. Takei (Taiheiyō Cement)
- 257 EVALUATION OF SEISMIC FRAGILITY FOR AN EXISTING CONTAINMENT STRUCTURE  
Mr. K. Bhargava (BARC), Mr. M. K. Agrawal (BARC), Dr. A. K. Ghosh (BARC), Mr. S. Ramanujam (BARC), Mr. H. S. Kushwaha (BARC)
- 260 Development of Semi-Continuous Voloxidizer for Oxidation of 20kg HM/batch  $\text{UO}_2$  Pellet  
Mr. Y. H. Kim (KAERI), Dr. J. S. Yoon (KAERI), Mr. J. H. Jung (KAERI), Mr. D. H. Hong (KAERI)
- 262 Actinides Recovery by Solvent Extraction in NEXT Process  
Mr. M. Nakahara (JNC), Dr. Y. Sano (JNC), Dr. Y. Koma (JNC), Mr. M. Kamiya (JNC), Mr. A. Sibata (JNC), Mr. T. Koizumi (JNC), Mr. T. Koyama (JNC)
- 264 Sorption and Migration of Neptunium in Porous Sedimentary Materials  
Dr. T. Tanaka (JAERI), Mr. M. Mukai (JAERI), Dr. S. Nakayama (JAERI)
- 265 A synthesis of possible separation and transmutation scenarios studied in the frame of the French law for waste management  
Mr. J. Grouiller (CEA), Mr. L. Boucher (CEA), Mr. P. Bourdot (CEA), Mr. F. Varaine (CEA), Mr. D. Warin (CEA), Mr. M. Delpéch (CEA)
- 273 A Bridge Transported Servo-Manipulator for Advanced Spent Fuel Conditioning Process  
Dr. B. Park (KAERI), Dr. J. Jin (KAERI), Mr. B. Ko (KAERI), Dr. J. Lee (KAERI), Dr. J. Yoon (KAERI)

- 279 Advanced Characterization techniques of Silicon Carbide and Pyrocarbon Coatings for Fuel Particles for High Temperature Reactors (HTR)  
Dr. D. Helary (CEA), Mr. G. Maveyraud (CEA), Dr. X. Bourrat (LCTS), Dr. O. Dugne (CEA), Dr. F. Cellier (FRAMATOME ANP), Dr. M. Perez (CEA)
- 281 Roles of Nuclear Power Systems in the Presence of Uncertainties from Global Warming  
Ms. E. Kiriyama (MRI), Prof. S. Iwata (U. Tokyo)
- 283 Study of the stability of BTP extractants under radiolysis  
Dr. C. Hill (CEA), Dr. L. Berthon (CEA), Prof. C. Madic (CEA)
- 289 Oxygen Sensor Development and Its Calibration for LBE system  
Mr. S. Jeong (SNU), Dr. C. Bahn (SNU), Mr. S. H. Chang (SNU), Mr. S. Choi (SNU), Prof. I. Hwang (SNU)
- 294 Inert materials for the GFR fuel : characterisations, chemical interactions and irradiation damage.  
Dr. F. F. Audubert (CEA), Dr. G. G. Carlot (CEA), Mr. J. J. Lechelle (CEA)
- 297 Preliminary Testing of Critical Technologies for Helium Technological Ring for High Temperature Gas cooled System Technology developpement  
Mr. G. Laffont (CEA), Mr. L. Ayrault (CEA), Mr. J. Berton (CEA), Dr. L. Cachon (CEA), Mr. F. Dechelette (CEA), Mr. F. Rey (CEA), Mr. F. Witters (CEA)
- 300 Biogeochemical and biomineralogical investigations of freshwater molluscs relating to the creation of an ecological test-site around a prospective radioactive waste repository (on example of Nizhnekanskiy Massif, Russia)  
Dr. M. A. Zuykov (KRI)
- 302 Development of Model for Electro-refining Process on Fixed Boundary Layer Condition  
Mr. J. Bae (SNU), Prof. K. Yi (SNU), Dr. B. Park (FNC Technology), Prof. I. Hwang (SNU)
- 312 Implementation Scenarios and Costs of the DB-MHR  
Dr. F. Venneri (GA), Dr. D. W. Mceachern (GA), Mr. M. Lebar (GA), Mr. C. Rodriguez (GA)
- 318 Decontamination of uranium contained wastes of intricate structure using supercritical carbon dioxide  
Dr. O. Tomioka (JAERI), Mr. T. Imai (JAERI), Mr. S. Fujimoto (JAERI), Dr. Y. Meguro (JAERI), Dr. M. Nakashima (JAERI), Dr. S. Tsushima (Nagoya U.), Prof. I. Yamamoto (Nagoya U.), Mr. R. Wada (KOBELCO), Dr. R. Fukuzato (SCF Techno-Link)
- 322 Limitation of Conventional Thermodynamic Models for Metal Binding in Soil/Aquatic Systems: A New Insight on the Effect of Humic Acid-Oxide Interaction  
Dr. T. Saito (U. Tokyo), Dr. S. Nagasaki (U. Tokyo), Prof. S. Tanaka (U. Tokyo)
- 324 Development of waste package for TRU-disposal (6) Photocatalytic Decomposition of Radioactive Organics in Waste Package  
Mr. T. Nakanishi (KOBELCO), Mr. O. Kato (KOBELCO), Dr. D. T. Yasunaga (KOBELCO), Mr. R. Wada (KOBELCO), Mr. Y. Kurimoto (KOBELCO), Dr. H. Owada (RWMC), Mr. A. Otsuki (RWMC), Mr. H. Asano (RWMC)
- 330 Review on transmutation studies at CEA: scientific feasibility according neutronic spectrum  
Mr. F. Varaine (CEA), Dr. A. Zaetta (CEA), Mr. D. Warin (CEA), Mr. M. Delpéch (CEA)
- 340 Solid Phase Reprocessing System Using Selective Sulfurization and Magnetic Separation  
Mr. S. Sato (JNC), Dr. N. Sato (Tohoku U.)
- 342 Results and evaluation of the Pu tests of MOX deposition at RIAR  
Mr. H. Kofuji (JNC), Mr. F. Sato (JNC), Mr. M. Myochin (JNC), Dr. S. Nakanishi (JAPC), Dr. M. Kormilitsyn (RIAR), Dr. V. S. Ishunin (RIAR), Dr. A. Bychkov (RIAR)
- 347 TESTING OF UNEX-PROCESS ON EXTRACTION STAND FACILITY AT MINING AND CHEMICAL COMBINE  
Dr. V. A. Babain (KRI), Mr. A. N. Vizniy (KRI), Dr. V. M. Esimantovskiy (KRI), Mr. S. A. Rodionov (KRI), Prof. V. N. Romanovsky (KRI), Dr. I. V. Smirnov (KRI), Mr. G. I. Kuznetsov (NIKIMT), Mr. L. I. Shklyar (NIKIMT), Mr. S. N. Alekseenko (MCC), Mr. V. V. Bondin (MCC), Dr. Y. G. Krivitskiy (MCC), Mr. T. A. Todd (INL)
- 353 UNEX-process: the present state of the art and prospects  
Prof. V. N. Romanovsky (KRI), Dr. I. V. Smirnov (KRI), Dr. V. A. Babain (KRI), Dr. V. M. Esimantovskiy (KRI), Mr. T. A. Todd (INL), Dr. R. S. Herbst (INL), Mr. J. D. Law (INL)
- 354 OPERATION FLEXIBILITY OF THE COGEMA LA HAGUE PLANTS  
Mr. P. Bretault (SGN), Mr. E. Blanc (COGEMA), Mr. J. Emin (COGEMA)
- 357 Calculations of Proliferation Resistance for Generation III Nuclear Energy Systems  
Dr. M. Yue (BNL), Dr. L. Cheng (BNL), Dr. I. A. Papazoglou (BNL), Dr. M. A. Azarm (BNL), Dr. R. A. Bari (BNL)
- 360 Non-destructive evaluation on mechanical properties of nuclear graphite with porous structure  
Mr. T. Shibata (JAERI), Mr. S. Hanawa (JAERI), Mr. J. Sumita (JAERI), Mr. T. Tada (JAERI), Dr. K. Sawa (JAERI), Mr. T. Iyoku (JAERI)
- 365 Plutonium Incineration Capability of Hydride Versus MOX Fuel in PWR  
Mr. F. Ganda (UCB), Prof. E. Greenspan (UCB)
- 368 Radiolysis of TODGA and its effect on extraction of actinide ions  
Ms. Y. Sugo (JAERI), Dr. Y. Sasaki (JAERI), Dr. T. Kimura (JAERI), Prof. T. Sekine (Tohoku U.), Prof. H. Kudo (Tohoku U.)
- 370 Development of Waste Package for TRU-Disposal (7) -Development of the Long-Term Confinement Container (Titanium-Carbon Steel Composite Container) for TRU Waste Disposal-  
Mr. T. Jintoku (IHI), Mr. S. Sawa (IHI), Mr. Y. Tochigi (IHI), Mr. T. Kanno (IHI), Mr. Y. Fukaya (IHI), Dr. G. Nakayama (IHI), Dr. M. Akashi (IHI), Mr. A. Otsuki (RWMC), Dr. H. Owada (RWMC), Mr. H. Asano (RWMC)
- 373 Development of Waste Package for TRU-disposal (2)  
Mr. T. Ito (MHI), Mr. S. Kobayashi (MHI), Mr. H. Ogawa (Taiheiyō Consultant), Mr. H. Asano (RWMC), Dr. H. Owada (RWMC), Mr. A. Otsuki (RWMC)
- 378 A new chemical process to prevent the swelling of the radioactive waste packages in organic media  
Dr. C. R. Martial (CEA), Ms. S. Camaro (CEA), Dr. F. Adenot (CEA), Ms. V. Blanc (COGEMA)
- 381 Interface Reaction between Fuel and Cladding after Pb Bonding  
Dr. B. S. Lee (KAERI), Dr. J. Lee (KAERI), Dr. T. Song (KAERI)
- 390 Ceramic Waste Form of Sodium Zirconium Phosphate (NZP) Matrix  
Dr. Y. Seida (IRI), Dr. H. Takahashi (IRI), Ms. M. Yuki (IRI), Dr. T. Sawa (Hitachi), Dr. K. Suzuki (IRI)
- 393 Results of studies on safety of the BN-600 reactor with hybrid core for the purpose of weapons Pu disposition  
Dr. I. A. Kuznetsov (IPPE), Dr. Y. E. Shvetsov (IPPE), Dr. Y. M. Ashurko (IPPE), Dr. A. V. Volkov (IPPE), Dr. Y. L. Kamanin (OKBM), Dr. A. M. Bahmet'ev (OKBM), Dr. H. Niwa (JNC), Dr. H. Endo (JNES), Mr. M. Ishida (JNC)
- 394 Recovery Test of metal Product from Oxide Fuel by Electrometallurgical pyroprocess  
Mr. S. Kitawaki (JNC), Mr. T. Shinozaki (JNC), Mr. M. Fukushima (JNC), Mr. T. Hijikata (CRIEPI), Dr. T. Usami (CRIEPI), Dr. T. Koyma (CRIEPI)

- 407 Information Disclosure of Troubles Occurring at Rokkasho Reprocessing Plant  
Mr. T. Yamada (JNFL), Mr. M. Yoneyama (JNFL), Mr. Y. Shinozaki (JNFL)
- 408 Development of Total Data Management System for Safe and Stable Operation, Maintenance and Management at Rokkasho Reprocessing Plant  
Mr. H. Aoyagi (JNFL), Mr. I. Yamaoka (JNFL), Mr. S. Takahashi (JNFL)
- 409 Partitioning of HLLW by CMPO Impregnated Silica Adsorbent  
Mr. I. Goto (IRI), Dr. T. Kikuchi (IRI), Dr. K. Suzuki (IRI)
- 410 Selective Removal of Ag<sup>+</sup> Ions from Nitric Acid Medium by Alginate Microcapsules  
Mr. M. Outokesh (Tohoku U.), Prof. H. Mimura (Tohoku U.), Dr. Y. Niibori (Tohoku U.), Dr. K. Tanaka (Tohoku U.)
- 413 Measurement of moisture absorption properties and water content of UO<sub>3</sub> powder  
Mr. Y. Tuji (JNFL), Mr. N. Moriya (JNFL), Mr. H. Otaki (JNFL), Mr. E. Ochi (JNFL), Mr. T. Egashira (MMC), Mr. Y. Nakamura (MMC), Mr. T. Hashimoto (MMC)
- 414 Management of Low Level Waste in Rokkasho Reprocessing Plant  
Mr. N. Moriya (JNFL), Mr. Y. Tsuji (JNFL), Mr. E. Ochi (JNFL)
- 415 Evaluation of Sludge in dissolver - Measurement for the distribution of sludge diameter and elemental composition-  
Mr. T. Nago (JNFL), Mr. Y. Tsuji (JNFL), Mr. N. Moriya (JNFL), Mr. E. Ochi (JNFL), Mr. Y. Nakamura (JNC), Mr. T. Kuno (JNC), Mr. S. Hayashi (JNC), Mr. M. Watahiki (JNC)
- 416 Development of the simplified MOX pellet fabrication process (Short Process) - Improvement of MOX powder flowability -  
Mr. T. Makino (JNC), Mr. T. Okita (JNC), Mr. Y. Kato (JNC), Mr. T. Kurita (JNC), Mr. Y. Takahashi (JNC), Mr. S. Aono (JNC)
- 417 Development of Medium Sized ABWR (ABWR-600, ABWR-900)  
Dr. T. Hino (Hitachi), Dr. M. Aoyama (Hitachi), Mr. M. Matsuura (Hitachi), Mr. K. Sato (Hitachi), Mr. M. Tsubaki (Hitachi), Mr. Y. Iimura (Hitachi)
- 418 Factory Test Results on NO<sub>x</sub> Recycle System using Pressure Swing Adsorption Method (PSA-Method) for Rokkasho Reprocessing Plant  
Mr. M. Sakai (JNFL), Mr. K. Nakamura (JNFL), Mr. Y. Shimizu (JNFL), Mr. M. Kubota (JNFL), Mr. M. Takeishi (MHI), Mr. S. Kumura (MHI)
- 421 Resolution of Capsule Stoppage in Pneumatic Pipeline to the Analysis Facility at Rokkasho Reprocessing Plant  
Mr. K. Shibakawa (JNFL), Mr. Y. Takaoku (JNFL), Mr. S. Shimizu (Nippon Shooter), Mr. K. Tang (Nippon Shooter), Prof. Y. Tomita (KIT)
- 423 Conceptual Design Study of Pb-Bi Cooled Fast Reactor Core in the "Feasibility Study" in Japan  
Dr. T. Sanda (JNC), Mr. T. Yamashita (JNC), Mr. T. Mizuno (JNC)
- 429 Phosphorylated calixarenes for nuclear waste treatment.  
Dr. V. A. Babain (KRI), Dr. I. V. Smirnov (KRI), Dr. F. Arnaud-neu (Strasbourg U.), Dr. E. A. Shokova (Moscow State U.), Dr. V. V. Kovalev (Moscow State U.), Prof. V. Bohmer (Johannes Gutenberg U.), Prof. V. I. Kal'chenko (IOC)
- 433 Conceptual Process Flow of a Fluoride Volatility Process under 'Milder' Condition  
Dr. I. Amamoto (JNC), Mr. K. Sato (JNC), Prof. T. Terai (U. Tokyo)
- 436 Conceptual Design of Uranium Removal Processing for an Advanced Fuel Cycle System, the Flexible Fuel Cycle Initiative (FFCI)  
Dr. K. Hoshino (Hitachi), Dr. A. Sasahira (Hitachi), Dr. T. Fukasawa (Hitachi), Mr. J. Yamashita (Hitachi)
- 438 Metal fuel fabrication study for irradiation tests in JOYO  
Mr. K. Nakamura (CRIEPI), Dr. T. Iwai (JAERI), Dr. Y. Arai (JAERI), Mr. T. Ishii (JNC)
- 439 Conceptual Design Study of LLFP Transmutation Fast Reactor Cores in the "Feasibility Study" in Japan  
Mr. M. Naganuma (JNC), Dr. N. Takaki (NMCC), Mr. T. Aida (JAPC), Mr. T. Mizuno (JNC)
- 441 Effect of Ball Milling Condition on Powder Properties and Pellet Characteristics for Fast Reactor MOX Fuel Fabrication  
Mr. K. Takeuchi (JNC), Mr. T. Okita (JNC), Mr. S. Aono (JNC)
- 442 Corrosion characteristics of steel exposed to the stagnant Pb and Pb-Bi at 600 and 650°C  
Mr. C. H. Cho (KAERI), Dr. T. Song (KAERI)
- 444 Development of Continuous Sintering Equipment for MOX Fuel Fabrication  
Mr. Y. Yamada (JNC), Mr. I. Kurita (JNC), Mr. K. Suzuki (JNC), Mr. K. Shinada (JNC), Mr. M. Kato (Hitachi)
- 446 corrosion study in direct cycle Pb-Bi cooled fast reactor  
Mr. K. Hata (TITECH), Dr. M. Takahashi (TITECH)
- 451 A consideration on the uncertainties and the robustness in the long-term performance assessment of the rock cavern type disposal system applying coupled geochemical reactions/ mass transport analysis  
Mr. Y. Miyauchi (JNFL), Mr. N. Sasaki (JNFL), Mr. T. Ohma (JNFL), Mr. T. Shimizu (JNFL), Mr. N. Yamada (MMC), Mr. Y. Kawata (MMC)
- 452 Experimental study on U-Pu co-crystallization for new reprocessing process  
Mr. K. Ohyama (JNC), Mr. K. Yano (JNC), Mr. A. Shibata (JNC), Mr. S. Miyachi (JNC), Mr. T. Koizumi (JNC), Mr. T. Koyama (JNC), Mr. K. Nakamura (MMC), Mr. T. Kikuchi (MMC), Prof. S. Homma (Saitama U.)
- 456 Nitride Formation Behavior of Actinides Recovered into Liquid Cd Cathode by Electrorefining  
Dr. Y. Nakazono (JAERI), Dr. T. Iwai (JAERI), Dr. Y. Arai (JAERI)
- 457 Conceptual Design Study of Pb-Bi Cooled Fast Reactor Plant System in the "Feasibility Study" in Japan  
Mr. H. Hayafune (JNC), Mr. Y. Enuma (JNC), Dr. M. Konomura (JNC), Mr. M. Mito (ARTECH)
- 459 R&D on Safeguards Environmental Sample Analysis at JAERI  
Mr. S. Sakurai (JAERI), Dr. M. Magara (JAERI), Dr. S. Usuda (JAERI), Dr. K. Watanabe (JAERI), Dr. F. Esaka (JAERI), Mr. F. Hirayama (JAERI), Dr. C. Lee (JAERI), Mr. K. Yasuda (JAERI), Mr. N. Kohno (JAERI), Mr. J. Inagawa (JAERI), Mr. D. Suzuki (JAERI), Mr. H. Fukuyama (JAERI), Ms. K. Esaka (JAERI), Dr. K. Iguchi (JAERI), Mr. S. Ichimura (JAERI), Mr. T. Onodera (JAERI), Ms. Y. S. Kokubu (JAERI), Dr. Y. Miyamoto (JAERI), Dr. A. Ohzu (JAERI), Dr. J. Chai (JAERI), Mr. M. Goto (JAERI), Dr. X. Zhang (JAERI)
- 469 Conceptual Study of Actinides Co-extraction System with Direct Extraction process  
Mr. M. Kamiya (JNC), Dr. Y. Koma (JNC), Ms. S. Miura (JNC), Mr. T. Koyama (JNC)
- 470 Design of the Lead Corrosion-Erosion Test Loop  
Dr. C. Cho (KAERI), Mr. C. H. Cho (KAERI), Dr. T. Song (KAERI)

- 480 Development of High Performance Metal Casks for Transportation and Storage of Spent Nuclear Fuels  
Mr. N. Kumagai (Hitachi), Dr. M. Kamoshida (Hitachi), Dr. K. Fujumura (Hitachi), Mr. K. Okuyama (Hitachi), Dr. T. Hino (Hitachi), Dr. M. Nakane (Hitachi), Mr. K. Kanamori (Hitachi), Dr. M. Hayashi (Hitachi), Mr. M. Mine (Hitachi)
- 481 Technology development of high efficiency and high capacity gas/gas heat exchanger which is necessary to practical application of gas-cooled reactor  
Mr. K. Tokunaga (MHI), Mr. M. Tanihira (MHI), Mr. Y. Miyoshi (MHI), Mr. Y. Kamito (MHI), Mr. T. Igari (MHI)
- 499 A Relation between High Loading of HLW and Space Reduction of Disposal  
Ms. H. Ohtsuka (Hitachi), Dr. K. Suzuki (IRI)
- 500 A Vitrified Waste Form of HLW by Iron-Phosphate Glass Matrix  
Mr. K. Maruyama (IRI), Mr. M. Sazarashi (IRI), Dr. K. Suzuki (IRI), Mr. M. Ijichi (IHI)
- 508 Extraction Separation of Americium(III) from Lanthanides(III) with Derivatives of N, N, N', N'-tetrakis(2-methylpyridyl)ethylenediamine (TPEN)  
Mr. T. Matsumura (JAERI), Prof. K. Takeshita (TITECH)
- 515 Maintaining the good performances of the La Hague plants  
Ms. A. Cocaud (COGEMA), Mr. P. Chambrette (SGN), Ms. I. Hibon (COGEMA), Mr. P. Morin (HRB-SGN)
- 520 Development of Shaft TBM  
Dr. T. Nakayama (Okumura), Mr. T. Kittaka (Okumura), Mr. H. Suda (Okumura)
- 525 Fluoride process of LWR spent fuel regeneration in a closed nuclear cycle  
Mr. V. Prusakov (Kurchatov Institute), Dr. P. N. Alekseev (Kurchatov Institute), Mr. R. Zakirov (Kurchatov Institute), Mr. V. Hohlov (SSIT), Mr. N. Trotsenko (Kurchatov Institute)
- 529 CFD Analysis on Transient Behavior of HYPER Spallation Target  
Dr. N. Tak (KAERI), Dr. C. Cho (KAERI), Dr. T. Song (KAERI)
- 538 Performance of a Chevron Steam Dryer for Removal of Lead-Bismuth Droplets  
Dr. V. Dostal (TITECH), Ms. E. Yusibani (TITECH), Dr. M. Takahashi (TITECH)
- 544 The Spatially Coupled Transient Code FETCH and Application to Modelling Fault Scenarios for Fourth Generation Reactor Systems  
Dr. C. Pain (Imperial College)
- 553 Spallation Yields Predictions in an ADS Target System for Source Term Evaluation  
Dr. T. Sawada (TITECH), Dr. M. Katsuma (TITECH), Dr. H. Kobayashi (TITECH), Dr. T. Sasa (JAERI)
- 568 Investigation on fabrication of SiC/SiC composite as a candidate material of fuel sub-assembly  
Dr. J. Lee (JNC), Mr. M. Naganuma (JNC), Dr. J. Park (Kyoto U.), Prof. A. Kohyama (Kyoto U.)
- 580 Investigation of Formation Reactions of Chloride and Oxide Compounds of Lanthanides and Structural Material Corrosion Products in Molten NaCl-2CsCl  
Dr. M. Kormilitsyn (RIAR), Dr. A. Osipenko (RIAR), Mr. V. Smolenskiy (RIAR), Dr. E. Nikolaeva (RIAR), Mr. M. Fukushima (JNC), Mr. M. Myochin (JNC), Mr. S. Kitawaki (JNC), Dr. H. Hirano (JNC)
- 581 Applications of Room Temperature Ionic Liquids (RTIL) in Advanced Fuel Cycles. RIAR R&D Concept Program  
Dr. M. Kormilitsyn (RIAR), Dr. A. Osipenko (RIAR), Mr. V. Smolenskiy (RIAR), Dr. A. Bychkov (RIAR), Dr. Y. Savochkin (RIAR), Dr. V. S. Ishunin (RIAR), Dr. M. Mel'nik (RIAR), Dr. A. Shadrin (Chlopin Institute)
- 585 Process and Equipment Qualification of the Ceramic and Metal Waste Forms for Spent Fuel Treatment  
Mr. K. C. Marsden (INL), Mr. K. J. Bateman (INL), Mr. B. R. Westphal (INL), Mr. P. R. Lind (INL), Mr. C. J. Knight (INL)
- 591 Research and development of neutron moderators with metal hydrides for sodium cooled fast breeder reactors  
Mr. M. Inoue (JNC), Dr. S. Ukai (JNC)



## Exhibitors list

### Waste Treatment/Disposal Street

- 1 Nuclear Waste Management Organization of Japan
- 2 Ishikawajima-Harima Heavy Industries Co., Ltd. Nuclear Fuel Cycle and Environmental System Department Nuclear Power Division
- 3 SHIMIZU CORPORATION
- 4 KAJIMA CORPORATION
- 5 TAISEI CORPORATION
- 6 OBAYASHI CORPORATION
- 7 Visible Information Center, Inc.

### Reprocessing Street

- 8 BNFL Group
- 9 JAPAN NUCLEAR FUEL LIMITED
- 10 AREVA
- 11 Central Research Institute of Electric Power Industry (CRIEPI)
- 12 Japan Atomic Energy Agency, Tokai Research and Development Center

### Reactor/Fuel Street

- 13 Japan Atomic Energy Agency, O-arai Research and Development Center
- 14 Japan Atomic Energy Agency, Tokai Research and Development Center
- 15 Japan Atomic Energy Agency, O-arai Research and Development Center
- 16 NUCLEAR SERVICES COMPANY
- 17 NIPPON NUCLEAR FUEL DEVELOPMENT CO. LTD.
- 18 Nuclear Fuel Industries, LTD.

### General Nuclear Activities Circle

- 19 Hitachi, Ltd.
- 20 TOSHIBA CORPORATION
- 21 SOCIETE D'INNOVATIONS TECHNIQUES
- 22 MITSUBISHI HEAVY INDUSTRIES, LTD.
- 23 KOBE STEEL, LTD./Studsvik Nuclear AB
- 24 Mitsubishi Materials Corporation (MMC) / Mitsubishi Materials Techno Corporation (MMTEC)
- 25 MIWA MFG CO., LTD.
- 26 OECD Nuclear Energy Agency (OECD/NEA)

## Organization

Organized by Atomic Energy Society of Japan  
Co-organized by Japan Nuclear Cycle  
Development Institute and Japan Atomic Energy  
Research Institute

## Sponsors

American Nuclear Society  
European Nuclear Society  
Chinese Nuclear Society  
Canadian Nuclear Society  
Korean Nuclear Society  
International Atomic Energy Agency  
Nuclear Energy Agency, OECD  
European Commission

## Organizing Committee

Honorary chair, Shunsuke Kondo, AEC, Japan  
Chair, Satoru Tanaka, U. Tokyo, Japan

Yasufumi Suzuki	JAERI
Ichiro Nakajima	JNC
Naotake Okamoto	CRIEPI
Seichi Sato	Hokkaido U.
Osamu Tochiyama	Tohoku U.
Yoshiaki Oka	U.Tokyo
Yasuhiko Fujii	TIT
Ichiro Yamamoto	Nagoya U.
Toshikazu Takeda	Osaka U.
Harukuni Tanaka	FEPC
Sakae Mutoh	TEPCO
Ryosuke Mizutani	Chubu-EPCO
Keiji Hirai	JAPC
Shigeru Kuwabara	KEPCO
Akiyoshi Minematsu	JNFL
Hirotsugu Fujimoto	JEMA
Masao Takuma	JAIF
Nukio Kiyono	NUMO
Akira Maru	Hitachi
Norio Sasaki	Toshiba
Yutaka Nakahara	MHI
Hiroyuki Maki	Shimizu Co.
Kenji Fukuda	AESJ, Planning Committee (Kyushu U.)
Junichi Yamashita	AESJ, International Activities Committee (Hitachi)
Susumu Muraoka	AESJ, NUCE (NMCC)
Yoichiro Shimazu	ESJ,RPD(Hokkaido

U.)

Michio Yamawaki AESJ, NF(TokaiU.)  
Tetsuo Takeuchi AESJ, RTD(TEPCO)

## International Advisory Committee

Chair, Shunsuke Kondo, AEC, Japan

Alan E. Walter	PNL, USA
Carter Buzz Savage	DOE, USA
Jacques Bouchard	CEA, France
Bertrand R. Barre	AREVA, France
Sue Ion	BNFL, UK
Peter Fritz	FZK, Germany
Paul J. Fehrenbach	AECL, Canada
Kun Jai Lee	KAIST, Korea
Arnold Bonne	DNE, IAEA
Roland Schenkel	EC-JRC, EU
Thierry Dujardin	NEA, OECD

## Technical Program Committee

Chair, Hajimu Yamana, Kyoto U., Japan

Executive Advisor, Harold McFarlane, ANL, USA

Executive Advisor, Patrice Bernard, CEA, France

Executive Advisor, Toru Ogawa, JAERI, Japan

Co-chair, Robert W. Benedict, ANL, USA

Co-chair, Bernard Boullis, CEA, France

Assistant Chair, Reiko Fujita, Toshiba, Japan

Assistant Chair, Yoshio Kani, JNC, Japan

James Laidler	ANL, USA
Kemal Pasamehmetoglu	LANL, USA
Stephen Turner	SAIC, USA
Peter Boczar	AECL, Canada
Frank Carré	CEA, France
Jean-Michel Delbecq	EDF, France
Raphael Assedo	RAMATOME-ANP, France
Dominique Greneche	AREVA/COGEMA, France
Jean-Michel Morey	CEA, France
Andrew Worrall	BNFL, UK
Ivan Owens	BNFL, UK
Thomas Fanghanel	FZK, Germany
Joachim Knebel	FZK, Germany
Didier Haas	ITU, EU
Aime Bruggeman	SCK-CEN, Belgium
Ronald Schram	NRG, the Nederland
Maria Lindberg	Studsvik NuclearAB, Sweden

Gerhard Bart	PSI, Switzerland
Jan Uhlir	NRI, Czech
Laszlo Sagi	KFKI, Hungary
Alexander Mayorshin	RIAR, Russia (-Dec., 15, 2004)
Alexander Bychkov	RIAR, Russia
Valery Romanovsky	KRI, Russia
Andrew Shadrin	KRI, Russia
Yu. Vassiliev	NNC, Kazakhstan
Volodymyr Krasnorutsky	Kharkov Institute, Ukraine
Eugenijus Uspuras	LEI, Lithuania
Milan Pesic	Vinca, Serbia-Montenegro
Eric Vance	ANSTO, Australia
Neil R. McDonald	ANA, Australia
Manchang Fu	CNS, China
Zuoyi Zhang	Tsinghua U., China
Il Soon Hwang	Seoul National U., Korea
Seong-Won Park	KAERI, Korea
Ratan K. Sinha	BARC, India
Baldev Raj	IGCAR, India
Ezra Elias	Technion, Israel
Horacio Taboada	CNEA, Argentine
Isao Yamagishi	OECD/NEA
Hans Forsström	EC
Ved Bhatnagar	EC
<u>Program Coordinators Group</u>	
Group Leader, Tetsuo Fukasawa, Hitachi, Japan	
Masatoshi Kawashima	Toshiba

Hiroaki Kobayashi	TEPCO
Masakazu Ichimiya	JNC
Yasuo Arai	JAERI
Nobuo Nakae	JNC
Yasuhisa Ikeda	TIT
Hidekazu Asano	RWMC
Hiroyoshi Ueda	NUMO
Tetsuaki Takeda	JAERI
Tsuyoshi Misawa	Kyoto U.
Takeshi Yokoo	CRIEPI
Satoshi Sakurai	JAERI
Haruo Nakagawa	JEMA
Kazuaki Matsui	IAE
Hajime Niwa	JNC
Tomohiro Nishimura	CRIEPI

### **Conference Secretariat**

Chair, Satoru Tanaka, U. Tokyo, Japan

Osamu Amano	TEPCO
Shigeo Nomura	JNC
Shigeru Dojiri	JAERI
Sadao Uchikawa	JAERI
Tomozo Koyama	JNC
Nobuyuki Nonaka	JNC
Tadafumi Koyama	CRIEPI
Hiroki Hayafune	JNC
Tatsuro Matsumura	JAERI

Contact, Yoshikazu Koma, JNC

