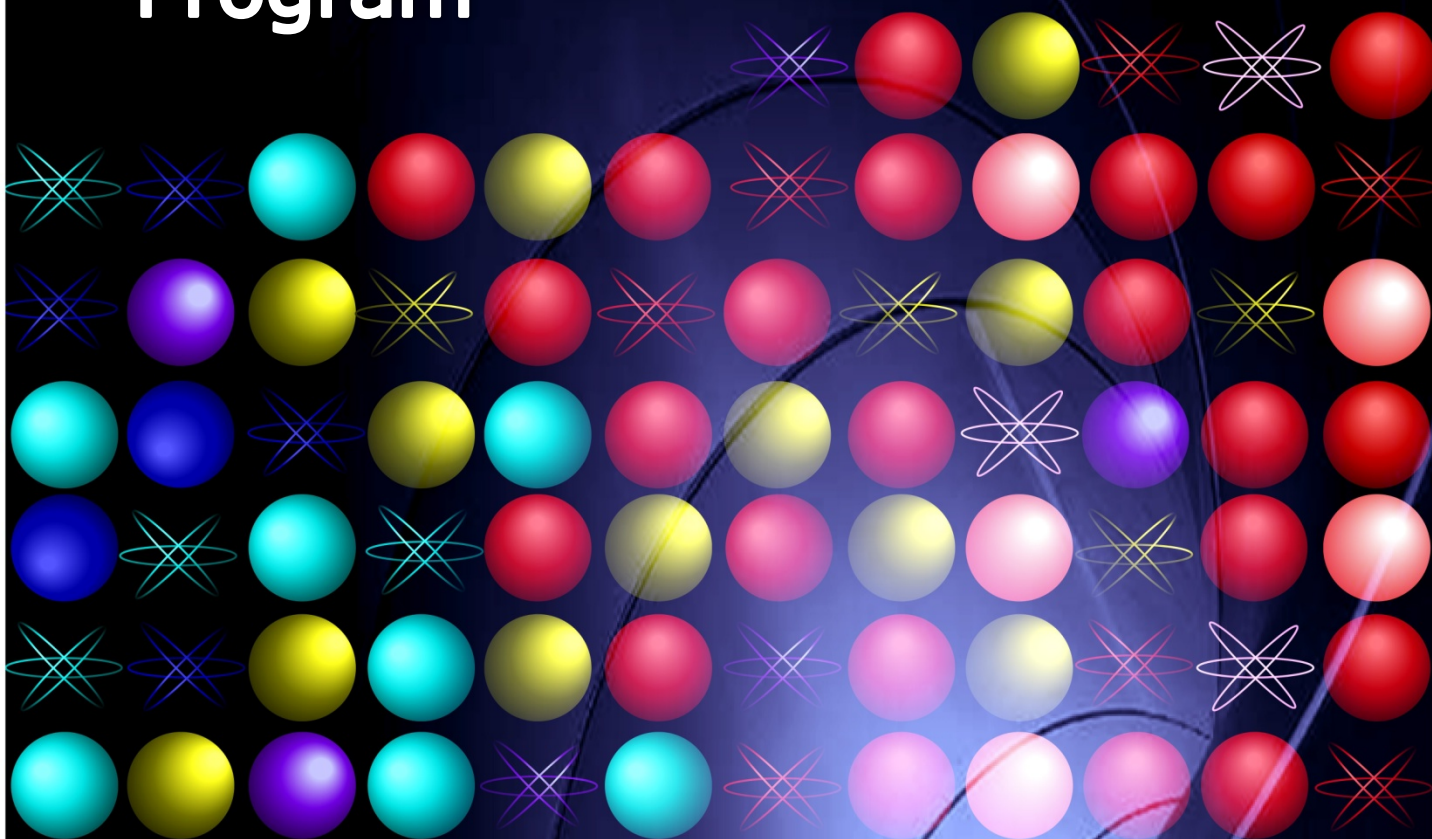


The Fourth International Symposium on Innovative Nuclear Energy Systems

- Innovative Nuclear Science and Technology Post Fukushima -

Program



Organized by :

Organizing Committee of INES-4,

Center for Research into Innovative Nuclear Energy Systems (CRINES),

Research Laboratory for Nuclear Reactors (RLNR),

Tokyo Institute of Technology



General Chairs:

Toru Obara (Director, CRINES, Tokyo Tech)

Toyohiko Yano (Director, RLNR, Tokyo Tech)

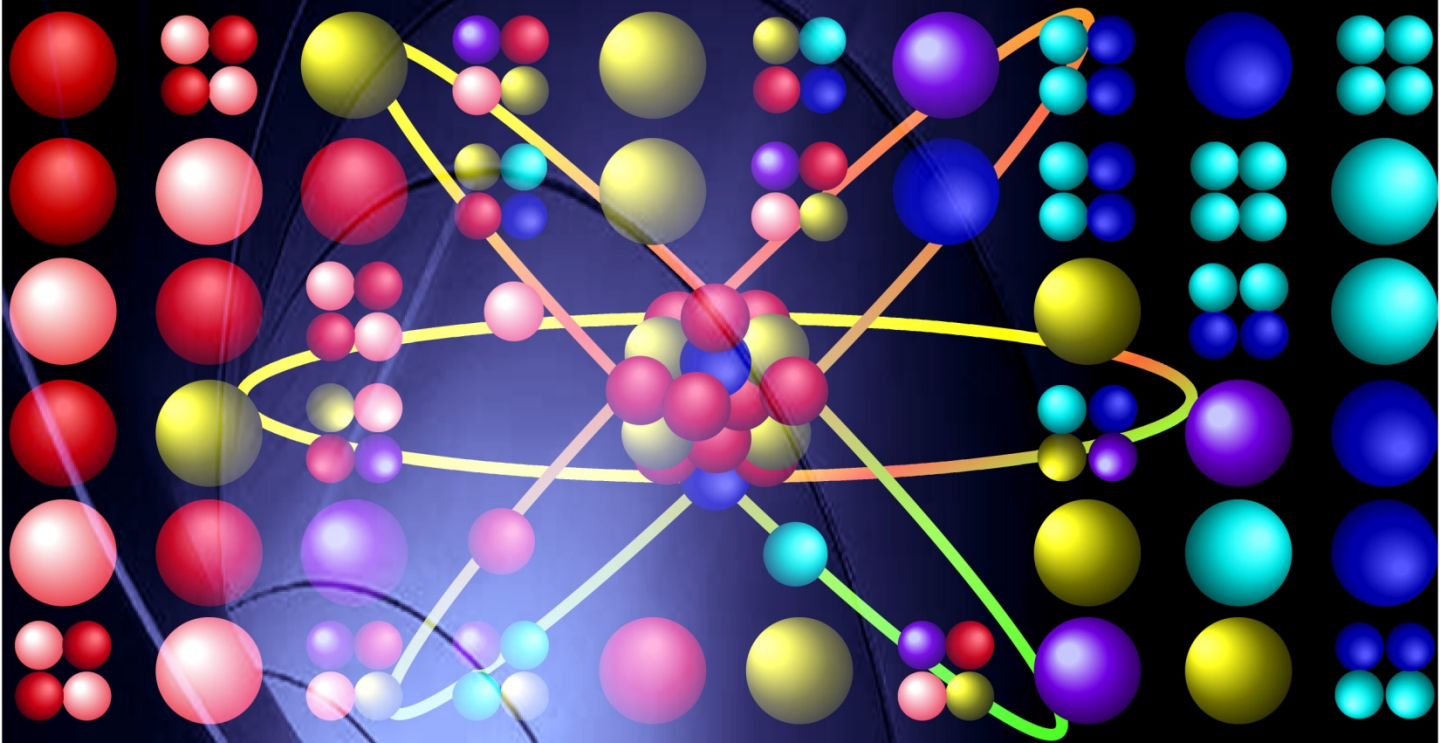
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INES-4

The Fourth International Symposium on Innovative Nuclear Energy Systems

–Innovative Nuclear Science and Technology Post Fukushima–

Program

6th – 8th November, 2013

Tokyo Institute of Technology, Japan

Organized by :

Organizing Committee of INES-4
Center for Research into Innovative Nuclear Energy Systems (CRINES),
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Program of INES-4

6th November – 8th November 2013, Tokyo, Japan

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INES-4 Administration Office, c/o CRINES

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INES-4 Conference Schedule

Date	6 November, 2013 (Wed)			7 November, 2013 (Thur)			8 November, 2013 (Fri)		
Venue	Room A (Digital hall)	Room B (Collabo)	Room C (RLNR 1F)	Room A (Digital hall)	Room B (Collabo)	Room C (RLNR 1F)	Room A (Digital hall)	Room B (Collabo)	Room D (EEI 1F)
8:00									
9:00	Registration (W9 Lobby)			Registration (W9 Lobby)			Registration (W9 Lobby), Poster Setting (Room D)		
10:00	Opening Ceremony			PL-2 Plenary Session Yamashita			A31 Heavy Metal Technology	B31 Innovative Nuclear Energy Utilization System-I	C31 Application of Accelerators
	PL-1 Plenary Session Kashiwagi								
11:00	A11 Heavy Metal Cooled Reactors	B11 Advanced Fuel Cycles-I	C11 Nuclear Reactor Safety-I	A21 Heavy and Light Water Reactors	B21 Codes for Innovative Nuclear System Development	C21 Heat Transfer and Hydraulics-I	Coffee Break (30 min)		
12:00	Lunch (Room D)			Lunch (Room D)			Odd Number's Poster Session, Lunch (Room D)		
13:00							Even Number's Poster Session, Lunch (Room D)		
14:00				A22 ADS and High Temperature Gas-cooled Reactors	B22 Nuclear Fundamentals- Experiment	C22 Heat Transfer and Hydraulics- II	PL-3 Plenary Session Kato	Poster Removing	
15:00	Coffee break (30 min)			Coffee break (30 min)			PL-4 Plenary Session Golay		
16:00	A13 Sustainable Burning Reactors and Innovative Concept	B13 Advanced Fuel Cycles-II	C13 Nuclear Safety, Security and Social Issues	A23 Nuclear Transmutation Technology	B23 SiC as Nuclear Material, Oxidation of Structure	C23 Heat Transfer and Hydraulics- III	Poster Award and Closing Ceremony		
17:00									
18:00									
19:00				Reception Party, The Prince Park Tower Tokyo (40 min from Tokyo Tech)			Evaluation Meeting (Committee Members only)		

PROGRAM

Wednesday, November 6, 2013

8:30 – 17:00

Registration (W9 Lobby)

9:30 – 10:00

Opening Ceremony (Room A)

Chair : Yukitaka Kato (Tokyo Institute of Technology, Japan)

Opening Addresses

Toyohiko Yano (Director, Research Laboratory for Nuclear Reactors,
Tokyo Institute of Technology)

Yoshinao Mishima (President, Tokyo Institute of Technology)

Reiko Fujita (Vice President, Atomic Energy Society of Japan)

Plenary Session (Room A)

Chair : Yukitaka Kato (Tokyo Institute of Technology, Japan)

10:00 – 10:45

(PL-1) Japan Energy Policy Perspective Post Fukushima

Takao Kashiwagi (Tokyo Institute of Technology, Japan)

10:45 – 11:15

Group Photo and Coffee break

A11: Heavy Metal Cooled Reactors (Room A)

Chair: Leonid Ponomarev (NRC “Kurchatov Institute”, Russia)

11:15 – 11:35

(A11-1) Development Plan and R&D Status of China Lead-based Reactor (CLEAR)

Yican WU, Yunqing BAI, Yong SONG, Qunying HUANG, Hongli CHEN, Liqin HU, Gang SONG, Sheng GAO, Yazhou LI, Jieqiong JIANG, Wenzhang ZHU, FDS Team (Chinese Academy of Sciences, China)

11:35 – 11:55

(A11-2) Study on Severe Accident Scenarios: Pin Failure in MYRRHA-FASTEF Critical Core

Rui LI, Xue-Nong CHEN, Claudia MATZERATH BOCCACCINI, Andrei RINEISKI, Werner MASCHKE (Karlsruhe Institute of Technology (KIT), Germany), Nicola FORGIONE (Università di Pisa - Dipartimento di Ingegneria Meccanica, Italy), Giacomino BANDINI (ENEA - Centro Ricerche Ezio Clementel, Italy)

11:55 – 12:15

(A11-3) Activities in CRINES for Generation IV International Forum, Lead-cooled Fast Reactor

Minoru TAKAHASHI, Toru OBARA, Akio MINATO, Shoji UCHIDA, Kenji KIKUCHI, Masatoshi KONDO, Akito NAGATA (Tokyo Institute of Technology, Japan)

B11: Advanced Fuel Cycles-I (Room B)

Chair : Yasuhisa Ikeda (Tokyo Institute of Technology, Japan)

11:15 – 11:35

(B11-1) Mechanism and kinetics of thermal decomposition of tertiary pyridine resin in the nitrate form

Yoshihiko SATO (National Institute of Occupational Safety and Health, Japan), Takehiro MATSUNAGA (National Institute of Advanced Industrial Science and Technology, Japan), Shin-ichi KOYAMA (Japan Atomic Energy Agency, Japan), Tetsuya SUZUKI (Nagaoka University of Technology, Japan), Masaki OZAWA (Tokyo Institute of Technology, Japan)

11:35 – 11:55

(B11-2) Removal of zirconium from spent fuel solution by alginate gel polymers

Takashi Onishi, Shin-ichi Koyama (Japan Atomic Energy Agency, Japan), Hitoshi Mimura (Tohoku University, Japan)

11:55 – 12:15

(B11-3) Extraction behavior of phenyl-substituted phosphine oxides for some fission product elements

Masanobu NOGAMI, Masatoshi HASHIMOTO, Yuhei SASAOKA, Ryosuke TANABE, Hiroki SATOU (Kinki University, Japan)

C11 : Nuclear Reactor Safety-I (Room C)

Chair : Michael Short (Massachusetts Institute of Technology, USA)

11:15 – 11:35

(C11-1) Preliminary safety analysis of mixed oxide sphere-pac driver fuels in the CP-ESFR WH core

Lena ANDRIOLO, Xue-Nong CHEN, Claudia MATZERATH BOCCACCINI,

Werner MASCHEK, Andrei RINEISKI (Karlsruhe Institute of Technology (KIT), Germany),
Fabienne DELAGE (Commissariat à l'Energie Atomique et aux Energies Alternatives de
Cadarache (CEA-Cadarache), France)

11:35 – 11:55

(C11-2) Chemical Form Consideration of Released Fission Products from Irradiated Fast Reactor Fuels during Overheating

Isamu SATO, Kosuke TANAKA, Shin-ichi KOYAMA (Japan Atomic Energy Agency, Japan),
Ken-ichi MATSUSHIMA, Junji MATSUNAGA, Mutsumi HIRAI (Nippon Nuclear Fuel
Development co. Ltd., Japan), Hiroshi ENDO, Kazuo HAGA (Japan Nuclear Energy Safety
Organization, Japan)

12:15 – 13:30

Lunch (Room D)

A12 : Molten Salt and Thorium Fuel Reactors (Room A)

Chair : Zaki Su'ud (Bandung Institute of Technology, Indonesia)

13:30 – 13:50

(A12-1) Molten Salt Fast Reactor based on LiF-NaF-KF

Leonid I. Ponomarev (National Research Center "Kurchatov Institute", Russia)

13:50 – 14:10

(A12-2) Comparative study on Pu and Pu &MA Utilization in small Molten Salt Reactor with various powers and core sizes

Abdul Waris, Indarta Kuncoro Aji, Syeilendra Pramuditya, Novitrian, Sidik Permana,
Zaki Su'ud (Institut Teknologi Bandung, Indonesia)

14:10 – 14:30

(A12-3) Criticality uncertainty dependence on nuclear data library in Fast molten Salt Reactors

Yoichiro SHIMAZU, W. F. G. van Rooijen, Naoki YAMANO (University of Fukui, Japan)

14:30 – 14:50

(A12-4) Self-Sustaining Thorium-Fueled BWR

Jeffrey E SEIFRIED, Guanheng ZHANG, Christopher R VARELA, Phillip M GORMAN, Ehud
GREENSPAN, Jasmina L VUJIC (University of California, USA)

14:50 – 15:10

(A12-5) Integral Evaluation of Nuclear Data for Thorium Fuel Cycle through Critical

Experiments at Kyoto University Critical Assembly

Yoshiyuki TAKAHASHI, Tadafumi SANO, Jun-ichi HORI, Hironobu UNESAKI (Kyoto University, Japan)

B12 : Nuclear Fundamentals-Theory (Room B)

Chair : Tatsuya Katabuchi (Tokyo Institute of Technology, Japan)

13:30 – 13:50

(B12-1) An Analysis of β -Delayed Neutron Emission of Neutron-Rich Even-Even Nuclei with Self-Consistent QRPA Approach

Futoshi MINATO, Osamu IWAMOTO (Japan Atomic Energy Agency, Japan)

13:50 – 14:10

(B12-2) A comprehensive approach to estimate delayed-neutron data of actinide and minor-actinides

Satoshi CHIBA (Tokyo Institute of Technology, Japan), Katsuhisa NISHIO (Japan Atomic Energy Agency, Japan), Yoshihiro ARITOMO (Tokyo Institute of Technology, Japan), Hiroyuki KOURA, Osamu IWAMOTO, Teruhiko KUGO (Japan Atomic Energy Agency, Japan)

14:10 – 14:30

(B12-3) Independent Fission Yields Studied Based on Langevin Equations

Yoshihiro ARITOMO, Satoshi CHIBA (Tokyo Institute of Technology, Japan), Katsuhisa NISHIO (Japan Atomic Energy Agency, Japan)

14:30 – 14:50

(B12-4) Theoretical Study of Beta Decay for Delayed Neutron

Hiroyuki KOURA (Japan Atomic Energy Agency, Japan), Satoshi CHIBA (Tokyo Institute of Technology, Japan)

14:50 – 15:10

(B12-5) Photonuclear Reactions of Calcium Isotopes Calculated with the Nuclear Shell Model

Yutaka UTSUNO (Japan Atomic Energy Agency, University of Tokyo, Japan), Noritaka SHIMIZU (University of Tokyo, Japan), Takaharu OTSUKA, Shuichiro EBATA (University of Tokyo, Japan), Michio HONMA (University of Aizu, Japan), Takahiro MIZUSAKI (Senshu University)

C12 : Nuclear Reactor Safety-II (Room C)

Chair : Hiroshige Kikura (Tokyo Institute of Technology, Japan)

13:30 – 13:50

(C12-1) Fundamental research program for enhanced safety management of irradiated fuels and materials that experienced severe accident utilizing the hot laboratory complex in Oarai

Shinichiro YAMASHITA, Shuhei MIWA, Akihiro ISHIMI, Masahiko OSAKA (Japan Atomic Energy Agency, Japan)

13:50 – 14:10

(C12-2) Validation of Burnup Calculation Code by Evaluation of Isotopic Composition Data of Mixed Oxide Fuel Irradiated in Pressurized Water Reactor

Takao KASHIMA, Kenya SUYAMA (Japan Atomic Energy Agency, Japan), Hiroki MOCHIZUKI (The Japan Research Institute, Limited, Japan), Kotaro TONOIKE (Japan Atomic Energy Agency, Japan)

14:10 – 14:30

(C12-3) Molten Core Relocation Analysis by SAMPSON code: Towards a Mechanistic Prediction of TEPCO's Fukushima Daiichi Severe Accident

Marco Pellegrini, Hideo Mizouchi, Hiroaki Suzuki, Masanori Naitoh (The Institute of Applied Energy, Japan)

14:30 – 14:50

(C12-4) Development of Virtual Reality-Based Simulation Platform for Nuclear and Radiation Safety

Tao HE, Leiming SHANG, Shaoheng ZHOU, Jinao ZHAO, Shu ZHANG, Zihui YANG, Ting LI, Xiang CHENG, Qi YANG, Tongqiang DANG, Jun ZOU, Qin ZENG, Pengcheng LONG, Liqin HU, Yican WU, FDS Team (Chinese Academy of Sciences, China)

14:50 – 15:10

(C12-5) MCAM 5.2: CAD/Image-Based Modeling Program for Nuclear and Radiation System

Shengpeng YU, Guozhong WANG, Dong WANG, Dianxi WANG, Fanzhi NIE, Quan GAN, Bin WU, Yanchang FAN, Wen WANG, Mengyun CHENG, Pengcheng LONG, Qin ZENG, Liqin HU, Yican WU, FDS Team (Chinese Academy of Sciences, China)

15:10 – 15:40

Coffee break

A13 : Sustainable Burning Reactors and Innovative Concept (Room A)

Chair : Fabrizio Gabrielli (Karlsruhe Institute of Technology, Germany)

15:40 – 16:00

(A13-1) Design Study of Small Long Life Gas Cooled Fast Reactors with Modified CANDLE Burn-up Scheme

Z. Su'ud , Menik Ariani, Fiber Monado, A. Waris, S. Permana (Bandung Institute of Technology, Indonesia), Ferhat A (National Nuclear Energy Agency of Indonesia (BATAN), Indonesia), H. Sekimoto (Tokyo Institute of Technology, Japan)

16:00 – 16:20

(A13-2) Study on the smallest sodium-cooled CANDLE core

Ryosuke MIURA, Naoyuki TAKAKI (Tokyo City University, Japan)

16:20 – 16:40

(A13-3) Start-up analysis of the CANDLE burn-up reactors by using accelerator neutron sources

Jun NISHIYAMA, Toru OBARA (Tokyo Institute of Technology, Japan)

16:40 – 17:00

(A13-4) SFR with Once-Through Depleted Uranium Breed & Burn Blanket

Guanheng Zhang, Anselmo Cisneros, Ehud Greenspan (University of California Berkeley, USA)

17:00 – 17:20

(A13-5) Feasibility of fueling PWRs with fuel discharged from Breed and Burn reactors

Christian DI SANZO, Ehud GREENSPAN, Jasmina VUJIC (University of California, USA), Joshua WALTER (TerraPower LLC, USA)

17:20 – 17:40

(A13-6) Population inversion distribution in laser gas medium for Reactor Pumped Laser

Toru OBARA, Yosuke ISOBE (Tokyo Institute of Technology, Japan)

B13 : Advanced Fuel Cycles-II (Room B)

Chair : Masanobu Nogami (Kinki University, Japan)

15:40 – 16:00

(B13-1) Electrochemical Studies on Uranyl Nitrate complex in 1-Ethyl-3-methylimidazolium Nitrate

Kotoe SASAKI (Shibaura Institute of Technology, Japan), Tomoya SUZUKI (Tokyo Institute of Technology, Japan), Tsuyoshi ARAI (Shibaura Institute of Technology, Japan), Koichiro TAKAO, Yasuhisa IKEDA (Tokyo Institute of Technology, Japan)

16:00 – 16:20

(B13-2) Separation of Uranyl Species Using Ionic Liquid Having Property of Temperature-dependent Miscibility with Water

Takahiro MORI (Tokyo Institute of Technology, Japan), Kotoe SASAKI (Shibaura Institute of Technology, Japan), Tomoya SUZUKI (Tokyo Institute of Technology, Japan), Tsuyoshi ARAI (Shibaura Institute of Technology, Japan), Koichiro TAKAO, Yasuhisa IKEDA (Tokyo Institute of Technology, Japan)

16:20 – 16:40

(B13-3) Continuous mutual separation of lanthanides based on the difference in extraction rates by a liquid-liquid centrifugal extractor with Taylor vortices

Masahiko Nakase (Tokyo Institute of Technology, Japan), Mikiya TANAKA (National Institute for Resources and Environment, MITI, Japan), Kenji TAKESHITA (Tokyo Institute of Technology, Japan)

16:40 – 17:00

(B13-4) In-situ Observation of Electrochemical Deposition of Rare Earth in Molten Chlorides by Using X-ray from Synchrotron Source

Haruaki MATSUURA, Atsushi NEZU, Kazuyuki YOSHIDA, Hiroshi AKATSUKA (Tokyo Institute of Technology, Japan), Akihiko KAJINAMI (Kobe University, Japan), Jun-ichi NISHINO, Kentaro KAJIWARA, Norimasa UMESAKI (Japan Synchrotron Radiation Research Institute, Japan), Akihiro KAWABE (Toshiba Corporation Power Systems Company, Japan)

17:00 – 17:20

(B13-5) Spectrophotometric study on solubility of lanthanide complexes in supercritical carbon dioxide

Dongki Hwang, Takehiko Tsukahara, Yasuhisa Ikeda (Tokyo Institute of Technology, Japan)

17:20 – 17:40

(B13-6) Studies on Liquid-Liquid Extraction of Radionuclide using Nanoliter Droplets in Microfluidic Channels

Takehiko Tsukahara (Tokyo Institute of Technology, Japan)

C13 : Nuclear Safety, Security and Social Issues (Room C)

Chair : Marco Pellegrini (The Institute of Applied Energy, Japan)

15:40 – 16:00

(C13-1) Kinetic Behavior in Criticality Accident of Two Fuel Solution Tanks

Haruka KIKUCHI, Toru OBARA (Tokyo Institute of Technology, Japan)

16:00 – 16:20

(C13-2) Feasibility study of the fast breeder reactor blanket as a target of plutonium denaturing and TRU transmutation for enhancement of proliferation resistance and actinide management in the future fuel cycle

Hiroshi SAGARA, Koji MATSUMOTO, Ippei YAMAUCHI, Chi Young HAN (Tokyo Institute of Technology, Japan), Takashi ONISHI, Shin-ichi KOYAMA (Japan Atomic Energy Agency, Japan), Masaki SAITO (Tokyo Institute of Technology, Japan)

16:20 – 16:40

(C13-3) Analysis on Proliferation Resistance Factor and Fuel Breeding Capability Based on Even Mass Plutonium Isotope Compositions

SidikPermana (Institut Teknologi Bandung, Indonesia), Dwi Irwanto (Japan Atomic Energy Agency, Japan), Novitrian, Abdul Waris, Zaki Su'ud (Institut Teknologi Bandung, Indonesia), Mitsutoshi Suzuki (Japan Atomic Energy Agency, Japan)

16:40– 17:00

(C13-4) Three Losses and Three Diversities ~A Lesson to Learn from Fukushima-Daiichi Accident~

FUTAMI, Tsuneo (Tokyo Institute of Technology, Japan)

17:00 – 17:20

(C13-5) New Public Commons and Network of Nuclear Site Regions – Its Meanings in the Ear of Post-Fukushima Accident -

Tetsuo SAWADA (Tokyo Institute of Technology, Japan)

Thursday, November 7, 2013

8:30 – 17:00

Registration (W9 Lobby)

Plenary Session (Room A)

Chair : Takeshiko Tsukahara (Tokyo Institute of Technology, Japan)

9:00 – 9:45

(PL-2) Current status of Fukushima Daiich NPP and future plan

Kazuhiko YAMASHITA (Tokyo Electric Power Company, Japan)

9:45 – 10:15

Coffee break

A21 : Heavy and Light Water Reactors (Room A)

Chair : Piyatida Trinuruk (King Mongkut's University of Technology Thonburi, Thailand)

10:15 – 10:35

(A21-1) Reactor physics and thermal hydraulic analysis of annular fuel rod cluster for Advanced Heavy Water Reactor

A.P.Deokule (Homi Bhabha National Institute, India), A.K.Vishnoi, K.Umasankari, D.K.Chandraker, P.K.Vijayan (Bhabha Atomic Research Centre, India)

10:35 – 10:55

(A21-2) Viability of Uranium Nitride Fueled High-Conversion PWR

Nathan ANDREWS, Koroush SHIRVAN, Mujid S. KAZIMI (Massachusetts Institute of Technology, USA)

10:55 – 11:15

(A21-3) Azimuthal flux distribution measurements of fuel rods in reduced-moderation LWR lattices

Kenichi YOSHIOKA (Toshiba Corporation, Japan), Takanori KITADA (Osaka University, Japan), Yasunobu NAGAYA (Japan Atomic Energy Agency, Japan)

11:15 – 11:35

(A21-4) Sensitivity and Uncertainty Analysis for the VENUS-F Critical Core

Hiroki IWAMOTO (Belgian Nuclear Research Centre (SCK-CEN), Belgium, Japan Atomic Energy Agency (JAEA), Japan), Alexey STANKOVSKIY, Wim UYTENHOVE (Belgian Nuclear Research Centre (SCK-CEN), Belgium)

B21 : Codes for Innovative Nuclear System Development (Room B)

Chair : Satoshi Chiba (Tokyo Institute of Technology, Japan)

10:15 – 10:35

(B21-1) Development of Photon-Induced Pion Production in the PHITS Code

Shusaku NODA, Shintaro HASHIMOTO, Tatsuhiko SATO (Japan Atomic Energy Agency, Japan), Koji NIITA (Research Organization for Information Science and Technology, Japan)

10:35 – 10:55

(B21-2) PHITS Simulation of Quasi-Monoenergetic Neutron Sources from ${}^7\text{Li}(p,n)$ reactions

Shintaro HASHIMOTO, Osamu IWAMOTO, Yosuke IWAMOTO, Tatsuhiko SATO (Japan Atomic Energy Agency, Japan), Koji NIITA (Research Organization for Information Science and Technology, Japan)

10:55 – 11:15

(B21-3) Development of Super Monte Carlo Calculation Program for Nuclear and Radiation Process

Jing SONG, Guangyao SUN, Huaqing ZHENG, Zhenping CHEN, Mingchang WU, Lijuan HAO, Gui LI, Cheng CHEN, Kuan ZHANG, Tao HE, Shengpeng YU, Chong CHEN, Jun ZOU, Qin ZENG, Pengcheng LONG, Liqin HU, Yican WU, FDS Team (Chinese Academy of Sciences, China)

11:15 – 11:35

(B21-4) Development of a calculation code system for evaluation of deuteron nuclear data

Shinsuke NAKAYAMA, Shouhei ARAKI, Yukinobu WATANABE (Kyushu University, Japan), Osamu IWAMOTO (Japan Atomic Energy Agency, Japan), Tao YE (Institute of Applied Physics and Computational Mathematics, China), Kazuyuki OGATA (Osaka University, Japan)

11:35 – 11:55

(B21-5) Problem on MATXS Files with Multiple Temperature Cross Section Data

Chikara KONNO, Shigetaka MAEDA (Japan Atomic Energy Agency, Japan), Kazuaki KOSAKO (Shimizu Corporation, Japan)

C21 : Heat Transfer and Hydraulics-I (Room C)

Chair : Minoru Takahashi (Tokyo Institute of Technology, Japan)

10:15 – 10:35

(C21-1) An Advanced Heat Partitioning Approach in CFD for Subcooled Flow Boiling

Lindsey GILMAN, Emilio BAGLIETTO (Massachusetts Institute of Technology, USA)

10:35 – 10:55

(C21-2) A new hybrid turbulence modeling strategy for industrial unsteady CFD

Giancarlo LENCI, Emilio BAGLIETTO (Massachusetts Institute of Technology, USA)

10:55 – 11:15

(C21-3) A Robust Momentum Closure Approach for Multiphase CFD Applications

Rosemary Sugrue, Emilio Baglietto (Massachusetts Institute of Technology, USA)

11:15 – 11:35

(C21-4) Experiment of Heat Transfer Coefficient and Critical Heat Flux in Single Pin and Triangular Pin Array with Wire Wrap Spacer

Tri Dan LE, Minoru TAKAHASHI (Tokyo Institute of Technology, Japan)

11:55 – 13:30

Lunch (Room D)

A22 : ADS and High Temperature Gas-cooled Reactors (Room A)

Chair : Koji Fujimura (Hitachi Ltd., Japan)

13:30 – 13:50

(A22-1) Conceptual Design of an Accelerator Driven Subcritical Reactor for Spent Fuel Burning (ADS-SFB)

Zhongliang LV (University of Science and Technology of China, Chinese Academy of Sciences, China), Minghuang WANG (Chinese Academy of Sciences, China), Zhao CHEN (University of Science and Technology of China, Chinese Academy of Sciences, China), Xuewei Fu, Jieqiong JIANG, Meisheng HE, FDS Team (Chinese Academy of Sciences, China)

13:50 – 14:10

(A22-2) Perspectives of Research and Development of Accelerator-Driven System in Kyoto University Research Reactor Institute

Cheol Ho PYEON, Takahiro YAGI, Yoshiyuki TAKAHASHI, Tadafumi SANO, Daisuke ITO, Yasushi SAITO, Ken NAKAJIMA (Kyoto University, Japan)

14:10 – 14:30

(A22-3) Particle-type Burnable Poisons for Thorium-based Fuel in HTGR

Piyatida TRINURUK (Tokyo Institute of Technology, Japan, King Mongkut's University of Technology Thonburi, Thailand), Toru OBARA (Tokyo Institute of Technology, Japan)

14:30 – 14:50

(A22-4) Comparative study on HTGR Designs for Passive Decay Heat Removal

Sambuu ODMAA, Toru OBARA (Tokyo Institute of Technology, Japan)

14:50 – 15:10

(A22-5) Optimization of Start-Up Fuel Management for OTTO Cycle Pebble Bed Reactor

Topan Setiadipura, Toru Obara (Tokyo Institute of Technology, Japan)

B22 : Nuclear Fundamentals-Experiment (Room B)

Chair : Yoshiyuki Oguri (Tokyo Institute of Technology, Japan)

13:30 – 13:50

(B22-1) Measurement of Fission Fragment Mass Distributions for Actinide Nuclei Populated by Nucleon-transfer Reaction

Katsuhisa NISHIO, Kentaro HIROSE, Hiroyuki MAKII, Ichiro NISHINAKA, Tetsuro ISHII, Shuya OHTA (Japan Atomic Energy Agency, Japan), Tatsuro NAGAYAMA (Japan Atomic Energy Agency, Ibaraki University, Japan), Kazuaki TSUKADA, Masato ASAI (Japan Atomic Energy Agency, Japan), Satoshi CHIBA (Tokyo Institute of Technology, Japan), Tsutomu OHTSUKI (Tohoku University, Japan), Shohei ARAKI, Yukinobu WATANABE (Kyushu University, Japan)

13:50 – 14:10

(B22-2) Measurement of the $^{243}\text{Am}(n,\gamma)$ Cross Section with a pair of C_6D_6 liquid scintillators at KURRI-LINAC

Jun-ichi Hori, Hiroshi Yashima (Kyoto University, Japan), Shoji Nakamura (Japan Atomic Energy Agency, Japan), Masayuki Igashira (Tokyo Institute of Technology, Japan)

14:10 – 14:30

(B22-3) Measurement of neutron capture cross sections of Pd-107 at J-PARC/MLF/ANNRI

Kazushi Terada, Tatsuya Katabuchi, Motoharu Mizumoto, Takurou Arai, Tatsuhiko Saito, Masayuki Igashira (Tokyo Institute of Technology, Japan), Kentaro Hirose, Shoji Nakamura, Atsushi Kimura, Hideo Harada (Japan Atomic Energy Agency, Japan), Jun-ichi Hori (Kyoto University, Japan), Koichi Kino, Yoshiaki Kiyonagi (Hokkaido University, Japan)

14:30 – 14:50

(B22-4) Validation of ^{241}Am Capture Cross Section through Integral Test using Criticality Data of Light-water Moderated MOX Cores

Ken NAKAJIMA, Tadafumi SANO, Toshihiro YAMAMOTO (Kyoto University, Japan)

14:50 – 15:10

(B22-5) Measurement of Neutron Capture Cross-Sections and Neutron Capture Gamma-Ray Spectra of ^{93}Nb , ^{103}Rh and ^{115}In in keV-Energy Region

Tatsuya KATABUCHI, Hiroyuki TSUDA, Kazushi TERADA, Masayuki IGASHIRA (Tokyo Institute of Technology, Japan)

C22 : Heat Transfer and Hydraulics-II (Room C)

Chair: Hiroshi Sagara (Tokyo Institute of Technology, Japan)

13:30 – 13:50

(C22-1) Geometrical network approach for an evaluation of heat-transfer coefficient in dropwise condensation for next passive safety systems

Noriyuki WATANABE, Masanori ARITOMI, Toyohiko YANO (Tokyo Institute of Technology, Japan)

13:50 – 14:10

(C22-2) Experimental Study on Bubble Number Distribution with Bubble Condensation in Subcooled Flow Boiling

Noriaki INABA, Minoru TAKAHASHI (Tokyo Institute of Technology, Japan)

14:10 – 14:30

(C22-3) Experimental and Numerical Investigation of Joule-heating Flow in Square Cavity

Thanh Tung DUONG, Hiromasa TANAKA, Nobuyoshi TSUZUKI (Tokyo Institute of Technology, Japan), Hideki KAWAI (Muroran Institute of Technology, Japan), Hiroshige KIKURA (Tokyo Institute of Technology, Japan)

15:10 – 15:40

Coffee break

A23 : Nuclear Transmutation Technology (Room A)

Chair : Cheol Ho Pyeon (Kyoto University, Japan)

15:40 – 16:00

**(A23-1) HIGH-SAFETY FAST REACTOR CORE CONCEPTS to IMPROVE
TRANSMUTATION EFFICIENCY of LONG-LIVED RADIOACTIVE WASTE**

Koji FUJIMURA, Akira SASAHIRA (Hitachi Ltd., Japan), Satoshi ITOOKA, Hiroshi KIYOTAKE,
Masayuki TAKAKUWA (Hitachi-GE Nuclear Energy, Ltd., Japan)

16:00 – 16:20

**(A23-2) Transmutation efficiency optimization of ADS utilized thorium and reprocessed
fuel**

Thanh Mai VU, Takanori KITADA (Osaka University, Japan)

16:20 – 16:40

(A23-3) ASTRID-like Fast Reactor Cores for Burning Plutonium and Minor Actinides

Fabrizio GABRIELLI, Andrei RINEISKI, Barbara VEZZONI, Werner MASCHKE,
Massimo SALVATORES (Karlsruhe Institute of Technology (KIT), Germany)

16:40 – 17:00

**(A23-4) Minor Actinides Incineration Options using Innovative Na-cooled Fast
Reactors: Impact on Phasing-out and On-going Fuel Cycles**

Barbara VEZZONI, Fabrizio GABRIELLI, Andrei RINEISKI,
Aleksandra SCHWENK-FERRERO, Vincenzo ROMANELLO (Karlsruhe Institute of
Technology (KIT), Germany)

17:00 – 17:20

(A23-5) Design of J-PARC Transmutation Experimental Facility

Toshinobu SASA (Japan Atomic Energy Agency, Japan)

B23 : SiC as Nuclear Material, Oxidation of Structure (Room B)

Chair: Takashi Sawabe (Central Research Institute of Electric Power Industry, Japan)

15:40 – 16:00

(B23-1) Oxide Growth of FBR Structural Materials in Supercritical Carbon Dioxide

Tomohiro FURUKAWA (Japan Atomic Energy Agency, Japan), Fabien ROUILLARD
(Commissariat à l'Energie Atomique et aux Energies Alternatives, France)

16:00 – 16:20

**(B23-2) Mechanical Properties of Unidirectional and Crossply SiCf/SiC Composites
Using SiC Fibers with Carbon Interphase Formed by Electrophoretic Deposition
Process**

Katsumi YOSHIDA, Hiroyuki AKIMOTO, Toyohiko YANO (Tokyo Institute of Technology,
Japan), Masaki KOTANI, Toshio OGASAWARA (Japan Aerospace Exploration Agency
(JAXA), Japan)

16:20 – 16:40

(B23-3) Annealing behavior of thermal diffusivity in ceramics irradiated by electron and neutron

Masafumi AKIYOSHI, Toshimasa YOSHIIE, Xu QIU, Koichi SATO (Kyoto University, Japan), Toyohiko YANO (Tokyo Institute of Technology, Japan)

16:40 – 17:00

(B23-4) Microstructure of low-dose neutron irradiated silicon nitride-based ceramics after thermal annealing

Aerak RUEANNGOEN, Masamisu IMAI, Katsumi YOSHIDA, Toyohiko YANO (Tokyo Institute of Technology, Japan)

17:00 – 17:20

(B23-5) Reactivity Measurements of SiC for Accident Tolerant Fuel

Hiroshi MATSUMIYA, Kenichi YOSHIOKA, Tsukasa KIKUCHI, Tsukasa SUGITA, Shinichi HIGUCHI, Noriyuki YOSHIDA (Toshiba Corporation, Japan)

C23 : Heat Transfer and Hydraulics-III (Room C)

Chair: Minoru Takahashi (Tokyo Institute of Technology, Japan)

15:40 – 16:00

(C23-1) The Application of Wire Mesh Sensor in Taylor-Couette Flow (TCF)

Ari HAMDANI, Thang Tat NGUYEN, Nobuyoshi TSUZUKI, Hiroshige KIKURA (Tokyo Institute of Technology, Japan), Daisuke ITO (Kyoto University)

16:00 – 16:20

(C23-2) Optimization of the ultrasound buffer rod for the molten glass measurement

Tomonori IHARA, Hiroshige KIKURA (Tokyo Institute of Technology, Japan)

16:20 – 16:40

(C23-3) A Study of Air-coupled Ultrasonic flowmeter using Beam Focusing

Keisuke TSUKADA, Nobuyoshi TSUZUKI, Hiroshige KIKURA (Tokyo Institute of Technology, Japan)

19:00 – 21:00

Reception Party (The Prince Park Tower Tokyo)

Friday, November 8, 2013

8:30 – 13:00

Registration (W9 Lobby)

8:30– 9:00

Poster Setting (Room D)

A31 : Heavy Metal Technology (Room A)

Chair : Rui Li (Karlsruhe Institute of Technology, Germany)

9:00 – 9:20

(A31-1) Experimental Study on Diffusion of Ni in Lead-bismuth Eutectic (LBE)

Yun Gao, Minoru Takahashi, Masao Nomura (Tokyo Institute of Technology, Japan)

9:20 – 9:40

(A31-2) Corrosion of Cold Worked YUS409D Bellows of Bellow-sealed Valve in LFR and ADS Environment

Asril Pramutadi, Andi MUSTARI, Minoru TAKAHASHI (Tokyo Institute of Technology, Japan)

9:40 – 10:00

(A31-3) Corrosion and Material Strength Behavior of Welded Steel HCM12 in Liquid Lead-Bismuth Eutectic

Marion GUIHOT (Centre CEA de Saclay, France), Asril PRAMUTADI, Minoru TAKAHASHI (Tokyo Institute of Technology, Japan)

10:00 – 10:20

(A31-4) Fundamental Study on Heavy Metal Freezing Behavior for Stopping Water Leakage from LWR Containment Vessel

Mihail MIHALACHE (University “Politehnica” of Bucharest, Romania), Minoru TAKAHASHI (Tokyo Institute of Technology, Japan), Radu SECAREANU (University “Politehnica” of Bucharest, Romania), Alexandre CHAPELAT (Tokyo Institute of Technology, Japan)

B31 : Innovative Nuclear Energy Utilization System-I (Room B)

Chair : Junichi Ryu (Tokyo Insituite of Technology, Japan)

9:00 – 9:20

(B31-1) Test-fabrication of Hydrogen Iodide Decomposer for IS process

Jin IWATSUKI, Hiroki NOGUHI, Shinji KUBO, Seiji KASAKARA, Nobuyuki TANAKA, Hiroaki TAKEGAMI, Kaoru ONUKI, Yoshiyuki INAGAKI (Japan Atomic Energy Agency, Japan)

9:20 – 9:40

(B31-2) Safety Design Consideration for HTGR Coupling with Hydrogen Production Plant

Hirofumi OHASHI, Shigeaki NAKAGAWA, Yukio TACHIBANA, Kazuhiko KUNITOMI (Japan Atomic Energy Agency, Japan)

9:40 – 10:00

(B31-3) Thermodynamic Integration of VHTR and Forward Osmosis Desalination Process

Min Young PARK, Soo KIM (Seoul National University, South Korea)

10:00 – 10:20

(B31-4) Conceptual Design of Lead-bismuth cooled Modular Reactor for Hydrogen Production

Yunqing BAI, Qianwen LIU, Zhao CHEN, Minghuang WANG, Meisheng HE, Hongli CHEN, Yican WU, FDS Team (Chinese Academy of Sciences, China)

C31 : Application of Accelerators (Room C)

Chair : Jun-ichi Hori (Kyoto University, Japan)

9:00 – 9:20

(C31-1) Numerical Analysis on Hydrodynamic Behavior of Ion-Beam-Heated Uranium Targets for Equation-of-State Studies under Extreme Conditions

Yoshiyuki Oguri, Kotaro Kondo, Jun Hasegawa, Kazuhiko Horioka (Tokyo Institute of Technology, Japan)

9:20 – 9:40

(C31-2) Velocity measurement of electromagnetically-driven shock wave to produce a dissociated hydrogen target for beam interaction experiment

Kotaro KONDO, Jun HASEGAWA, Kazuhiko HORIOKA, Yoshiyuki OGURI (Tokyo Institute of Technology, Japan)

9:40 – 10:00

(C31-3) Application of Atmospheric Non-Thermal Plasma to Chlorination for Hardly-Soluble Materials

Toru KITAGAKI, Toshitaka KANESHIKI, Masao NOMURA (Tokyo Institute of Technology, Japan), Tatsuya SUZUKI (Tokyo Institute of Technology, Nagaoka University of Technology, Japan)

10:00 – 10:20

(C31-4) Design of a proton-induced quasimonochromatic micro-XRF setup for wet biological samples

Kamontip PLOYKRACHANG, Jun HASEGAWA, Kotaro KONDO, Hitoshi FUKUDA, Yoshiyuki OGURI (Tokyo Institute of Technology, Japan)

10:20 – 10:50

Coffee break

A32 : Fuel Material and Cladding (Room A)

Chair : Haruaki Matsuura (Tokyo Institute of Technology, Japan)

10:50 – 11:10

(A32-1) Multiphysics Modeling and Validation of CRUD-Induced Localized Corrosion (CILC) in PWRs

Andrew Dykhuis, Mostafa Youssef, Bilge Yildiz, Michael Philip Short (Massachusetts Institute of Technology, USA)

11:10 – 11:30

(A32-2) CRUD Resistant Fuel Cladding Materials

Gabrielle Ledoux, Ekaterina Paramonova, Michael Philip Short (Massachusetts Institute of Technology, Japan)

11:30 – 11:50

(A32-3) Analysis Method of Matrix and Second Phase Particles in Zircaloy-2 by Atom Probe Tomography

Takashi SAWABE, Takeshi SONODA, Shoichi KITAJIMA (Central Research Institute of Electric Power Industry (CRIEPI), Japan)

11:50 – 12:10

(A32-4) Oxidation behavior of Am-containing MOX fuel pellets in air

Kosuke TANAKA, Hiroshi YOSHIMUCHI, Hiroshi OBAYASHI, Shin-ichi KOYAMA (Japan Atomic Energy Agency, Japan)

B32 : Innovative Nuclear Energy Utilization System-II (Room B)

Chair : Hiroyuki Sato (Japan Atomic Energy Agency, Japan)

10:50 – 11:10

(B32-1) Contribution of Nuclear Energy on New Energy Systems Post Fukushima

Yukitaka KATO (Tokyo Institute of Technology, Japan)

11:10 – 11:30

(B32-2) Combination of a Thermochemical Energy Storage and a Small Pressurized Water Reactor for a Cogeneration System

Hirokazu ISHITOBI (Gunma University, Tokyo Institute of Technology, Japan), Junichi RYU, Yukitaka KATO (Tokyo Institute of Technology, Japan)

11:30 – 11:50

(B32-3) Electrolysis of Carbon Dioxide for Carbon Monoxide Regeneration Using Tubular Solid oxide Electrolysis Cell

Arnoldus Lambertus Dipu, Junichi Ryu, Yukitaka Kato (Tokyo Institute of Technology, Japan)

C32 : Biological Effects and Medical Applications of Radiation (Room C)

Chair : Jun Nishiyama (Tokyo Institute of Technology, Japan)

10:50 – 11:10

(C32-1) Mechanisms of the Recognition and Repair of DNA Double-Strand Breaks And Possible Application in Cancer Therapy

Yoshihisa MATSUMOTO (Tokyo Institute of Technology, Japan)

11:10 – 11:30

(C32-2) Design Optimization of a New Homogeneous Reactor for Medical Radioisotope Mo-99/Tc-99m Production

Peng Hong LIEM (Nippon Advanced Information Service (NAIS Co., Inc.), Japan), Hoai Nam TRAN (Chalmers University of Technology, Sweden), Tagor Malem SEMBIRING (National Nuclear Energy Agency (BATAN), Indonesia)

11:30 – 11:50

(C32-3) APPLICATION OF RADIATION IN MEDICINE AND AGRICULTURE IN JAPAN

Kazuaki YANAGISAWA (Japan Atomic Energy Agency (JAEA), Japan)

9:00 – 12:00

Poster Short Presentation Session/ AESJ&INES-4 (Room D)

10:20 – 10:50

Coffee break

Poster Session, Lunch (Room D)

12:10 – 13:10 : Odd number's poster session

13:10 – 14:10 : Even number's poster session

(P-01) Analysis of Criticality for KUR HEU core using JENDL-4.0

Tadafumi Sano, Ken Nakajima, Hironobu Unesaki (Kyoto University, Japan)

(P-02) Adsorption and Separation Behavior of Strontium from Simulated High Level Liquid Waste using a Macroporous Silica-based DtBuCH₁₈C₆/SiO₂-P Absorbent

Yuanlai Xu, Seong-Yun Kim, Tatsuya Ito, Haruki Tokuda, Keitaro Hitomi, Keizo Ishii (Tohoku University, Japan)

(P-03) Adsorption behavior of uranium ion using novel phenol-type resins in contaminated water containing seawater

Yuki YAMAZAKI, Yu TACHIBANA (Nagaoka University of Technology, Japan), Toshitaka KANESHIKI, Masao NOMURA (Tokyo Institute of Technology, Tatsuya SUZUKI (Nagaoka University of Technology, Japan)

(P-04) Lithium isotope effects upon electrochemical release from lithium manganese oxide

Koji OKANO, Yuta TAKAMI, Satoshi YANASE, Takao OI (Sophia University, Japan)

(P-05) Extraction behavior of Pd(II) and La(III) in acid solutions to the imidazolium-based ionic liquids without extractants

Noriko ASANUMA, Naoki NAKAMURA, Hiroki KOKUBO (Tokai University, Japan)

(P-06) Fuel Behavior Analysis Code FEMAXI-FBR Development and Validation for Core Disruptive Accident

Tsuyoshi OKAWA (Japan Nuclear Energy Safety Organization, Japan), Hiroaki SAITO (ITOCHU Techno-Solutions Corporation, Japan)

(P-07) Measurement of double differential neutron yields from thick aluminum target irradiated by 9 MeV deuteron

Shouhei ARAKI, Yukinobu WATANABE, Tadahiro KIN, Nobuhiro SHIGYO, Kenshi SAGARA (Kyushu University, Japan)

(P-08) Molecular simulation of pressure dependent boron isotope equilibrium between boron hydrates

Hiroyuki Ichikawa (Sophia University, Japan) , Masaaki Musashi (Tokyo Metropolitan University), Masuhiro Mikami, Seiji Tsuzuki (Advanced Institute of Science and Technology), Takao Oi (Sophia University, Japan)

(P-09) Spectroscopic Study of Recombination Continuum in Arc-Heated Cold Expanding Plasma Jet

Yuki OHNO, Atsushi NEZU, Haruaki MATSUURA, Hiroshi AKATSUKA (Tokyo Institute of Technology, Japan)

(P-10) Excited State Distributions of Hydrogen Atoms in Microwave Discharge Hydrogen Plasma and Effect of Electron Energy Distribution Function

Yoshihiro SHIMIZU, Yuusuke KITAKA, Atsushi NEZU, Haruaki MATSUURA, Hiroshi AKATSUKA (Tokyo Institute of Technology, Japan)

(P-11) Ion Charge and Flux Control of Laser Ablation Plasma for High-Brightness Ion Sources

Jun HASEGAWA, Satoru KANAMARU, Kazuhiko HORIOKA, Kotaro KONDO, Yoshiyuki OGURI (Tokyo Institute of Technology, Japan)

(P-12) Warm Dense Matter Studies by using Pulsed-power Discharge toward Nuclear Fusion Systems

Toru Sasaki, Takuya Takahashi, Takumi Ohuchi, Yoshimasa Kawaguchi, Kazumasa Takahashi, Takashi Kikuchi, Tsukasa Aso, Nob. Harada (Nagaoka University of Technology, Japan), Kazuhiko Horioka (Tokyo Institute of Technology, Japan), Hideo Nagatomo, Shinsuke Fujioka (Osaka University, Japan)

(P-13) Study on the CO₂ Absorption by Potassium Component during Sample Preparation for Rutherford Backscattering Spectroscopy Using Drop-and-Dry Method

Tamotsu TORIYAMA, Satoshi SUZUKI (Tokyo City University, Japan), Katsunori KAWASAKI (Tokyo Institute of Technology, Japan), Yasuo TAKAGI, Masayuki NAGAI (Tokyo City University, Japan), Hitoshi FUKUDA, Kotaro KONDO, Yoshiyuki OGURI (Tokyo Institute of Technology, Japan)

(P-14) Numerical Simulation for Longitudinal and Transverse Coupling Motion in Compact Electron Beam Simulator for Heavy Ion Inertial Fusion

Takashi KIKUCHI, Tomohiro SATO (Nagaoka University of Technology, Japan), Kazuhiko HORIOKA (Tokyo Institute of Technology, Japan), Kazumasa TAKAHASHI, Toru SASAKI, Tsukasa ASO, Nob. HARADA (Nagaoka University of Technology, Japan)

(P-15) Development of a room temperature co-axial half-wave cavity for low- β electron acceleration

Brian E. O'ROURKE, Nagayasu OSHIMA, Atsushi KINOMURA, Ryoichi SUZUKI (National Institute of Advanced Industrial Science and Technology (AIST), Japan), Souta TAIRA, Noriyosu HAYASHIZAKI (Tokyo Institute of Technology, Japan)

(P-16) Dehydration Kinetic Study of Chemical Heat Storage Material with Lithium Bromide used for Magnesium Oxide/Water Chemical Heat Pump

Odtsetseg MYAGMARJAV, Junichi RYU, Yukitaka KATO (Tokyo Institute of Technology, Japan)

(P-17) Chemical heat storage of thermal energy from a nuclear reactor by using a magnesium hydroxide/expanded graphite composite material

Massimiliano ZAMENGO, Junichi RYU, Yukitaka KATO (Tokyo Institute of Technology, Japan)

(P-18) Neutron irradiation effect of oxide sintering additives for SiCf/SiC composites

Hiroshi Konishi, Katsumi Yoshida, Masamitsu Imai, Toyohiko Yano (Tokyo Institute of Technology, Japan)

(P-19) MEASUREMENT OF BUBBLY TWO-PHASE PIPE FLOW USING MULTI-WAVE ULTRASONIC PULSED DOPPLER METHOD AND WIRE MESH TOMOGRAPHY

Tat Thang NGUYEN (Tokyo Institute of Technology, Japan, Institute of Mechanics, VAST, Vietnam), Hiroshige KIKURA (Tokyo Institute of Technology, Japan), Hideki MURAKAWA (Kobe University), Nobuyoshi TSUZUKI (Tokyo Institute of Technology, Japan)

(P-20) Quantitative Assessment of ^{131}I in Soil Originating from the Fukushima Daiichi Nuclear Power Plant Disaster using a Germanium Semiconductor Detector

Yutaro MORI, Tomonori ISOBE, Kenta TAKADA (University of Tsukuba, Japan), Satoshi KAMIZAWA (University of Tsukuba Hospital, Japan), Eisuke SATO (Kitasato University, Japan), Hideyuki SAKURAI, Takeji SAKAE (University of Tsukuba, Japan)

(P-21) Neutron Irradiation Swelling of SiC and SiCf/SiC for Advanced Nuclear Applications

Mohd Idzat IDRIS (Tokyo Institute of Technology, Japan, The National University of Malaysia, Malaysia), Hiroshi KONISHI, Masamitsu IMAI, Katsumi YOSHIDA, Toyohiko YANO (Tokyo Institute of Technology, Japan)

14:10 – 14:30

Poster Removing (Room D)

Plenary Session (Room A)

Chair : Toru Obara (Tokyo Institute of Technology, Japan)

14:30 – 15:15

(PL-3) Safe Shutdown of Onagawa Nuclear Power Station

-The Closest BWRs to the 3/11/'11 Epicenter-

Isao Kato (Tohoku Electric Power Company, Inc., Japan)

15:15 – 16:15

(PL-4) Potential post-Fukushima directions in Improving Nuclear Safety in the United States

Michael Golay (Massachusetts Institute of Technology, USA)

16:25 – 16:55

Poster award and closing ceremony (Room A)

17:30 – 18:30

Evaluation Meeting (Committee members only, Room C)

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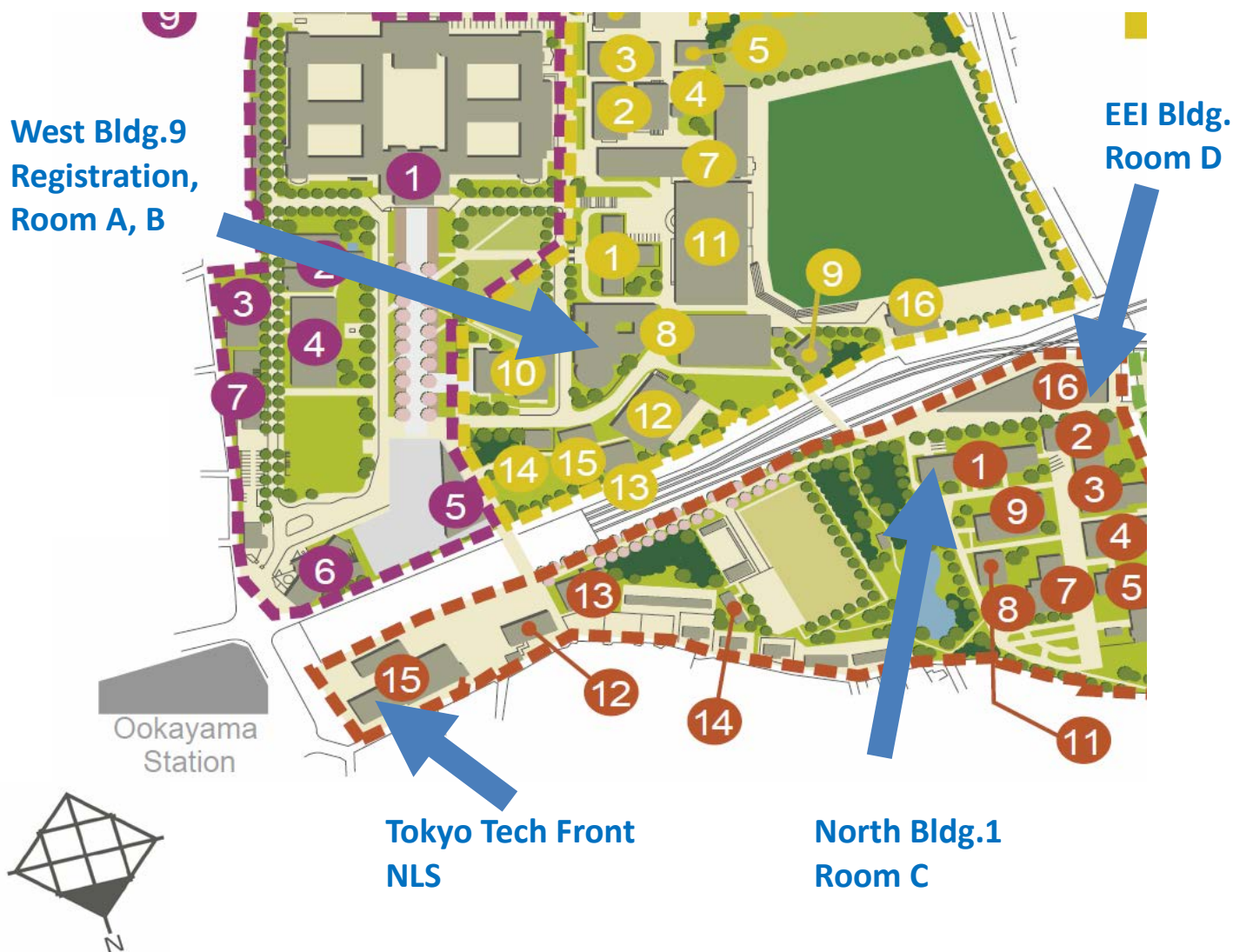
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VENUE MAPS

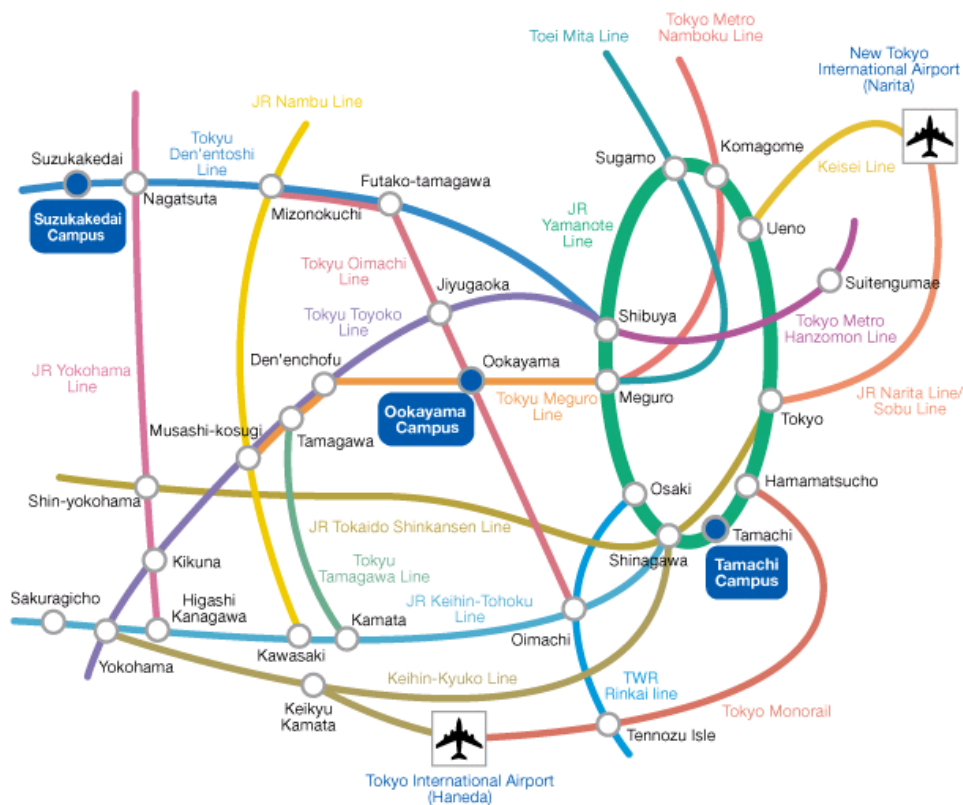
Venue maps

Tokyo Tech, Ookayama campus

<http://www.titech.ac.jp/english/maps/ookayama/illust.html>



Ookayama West Area				
1	West Bldg. 1	1,318m ²	8 West Bldg. 9	21,108m ²
2	West Bldg. 2	1,795m ²	9 Environment Safety Management Bldg.	374m ²
3	West Bldg. 3	5,237m ²	10 The 70th Anniversary Auditorium	1,301m ²
4	West Bldg. 4	3,262m ²	11 Gymnasium	4,811m ²
5	West Bldg. 5	1,287m ²	12 Student Hall (Cafeteria)	2,981m ²
Ookayama North Area				
1	North Bldg. 1	3,275m ²	9 North Lab. Bldg. 6	998m ²
2	North Bldg. 2	3,330m ²	10 Van de Graaff Lab.	364m ²
3	North Lab. Bldg. 1	1,033m ²	11 Radioisotope Lab.	504m ²
4	North Lab. Bldg. 2A・2B	1,816m ²	12 Health Service Center	452m ²
5	North Lab. Bldg. 3A	695m ²	13 The 80th Anniversary Hall	704m ²
6	North Lab. Bldg. 3B	101m ²	14 Extracurricular Bldg. 5	121m ²
7	North Lab. Bldg. 4	732m ²	15 Tokyo Tech Front	4,076m ²
8	North Lab. Bldg. 5	200m ²	16 Green Hills Bldg.1(Environmental Energy Innovation Bldg)	9,554m ²



<http://www.titech.ac.jp/english/maps/ookayama/index.html>

The Ookayama campus is a one-minute walk from Ookayama Station.

From Downtown Tokyo

1. Take Keihin-Tohoku Line (Japan Railways) to Ooimachi Station.

Transfer to Ooimachi Line (Tokyu Transportation Systems) there and get off at Ookayama Station. The train ride from Ooimachi Station to Ookayama Station is about 10 minutes.

2. Take Yamanote Line (Japan Railways) to Meguro Station.

Transfer to Meguro Line (Tokyu Transportation Systems) there and get off at Ookayama Station. The ride from Meguro Station to Ookayama Station takes about 10 minutes.

3. Take Mita Line (Toei Subway) to Meguro Station and continue the ride to Ookayama Station.

4. Take Namboku Line (Tokyo Metropolitan Subway) to Meguro and continue the ride to Ookayama.

From Haneda Airport

1. by TOKYO MONORAIL.

a. The monorail trains run between Haneda Airport and Hamamatsucho Station. From Hamamatsucho, take JR Keihin-Tohoku Line to Ooimachi. Transfer to Tokyu Ooimachi Line.

b. Take JR Yamanote Line from Hamamatsucho to Meguro Station. Transfer to Tokyu Meguro Line there and ride to Ookayama Station.

2. by KEIKYU LINE.

a. Take Keikyū Line from Haneda Airport to Shinagawa Station. From Shinagawa, take JR Keihin-Tohoku Line to Ooimachi there and transfer to Tokyu Ooimachi Line.

b. Take JR Yamanote Line from Shinagawa to Meguro Station. Transfer to Tokyu Meguro Line there and ride to Ookayama Station.

From Narita Airport

1. by KEISEI Line.

Take a Narita skyliner to Nippori Station and transfer to JR Keihin-Tohoku Line. Take a train bound for south from Nippori to Ooimachi. At Ooimachi, transfer to Tokyu Ooimachi Line and get off at Ookayama.

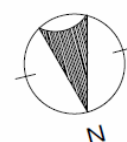
2. by JR.

a. Take a Narita express to Shinagawa Station. Change to a Keihin-Tohoku train bound for south and get off at Ooimachi Station (next to Shinagawa). Transfer to Tokyu Ooimachi Line.

b. Take a Narita express to Shinagawa Station. Change to Yamanote Line bound for Shibuya and Shinjuku. Get off at Meguro Station and transfer to Tokyu Meguro Line to Ookayama.

3. by BUS.

A limousine bus runs from the airport to Tokyo City Air Terminal (T-cat). At T-cat, go downstairs to the subway station - Suitengumae Station (Hanzomon Line) - and take a train bound for Nagatsuta or Chuo-rinkan. At Futako-tamagawa Station, change to a train bound for Ooimachi. Get off at Ookayama.

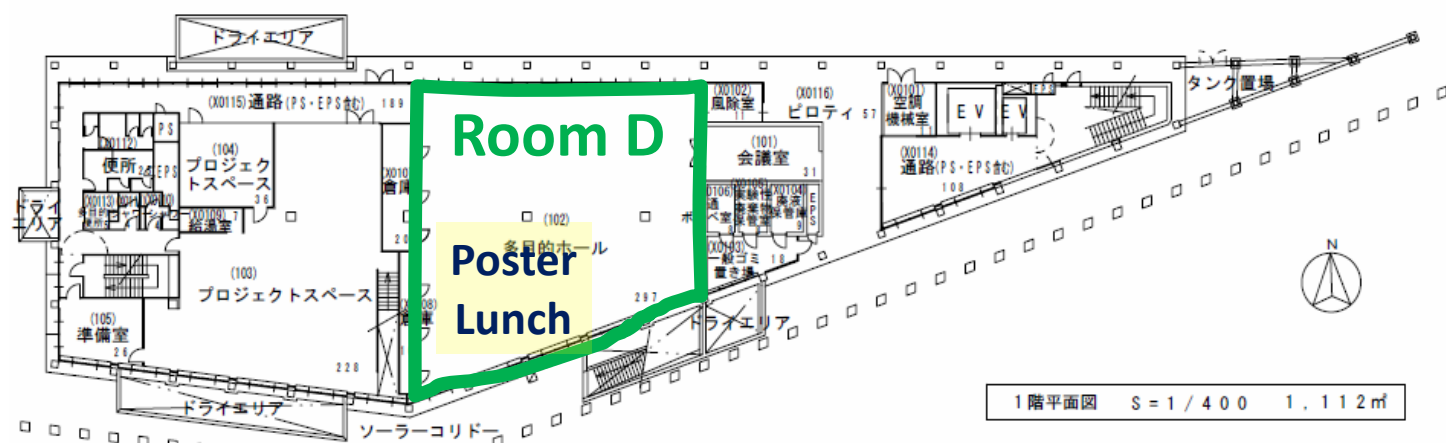


West Bldg.9

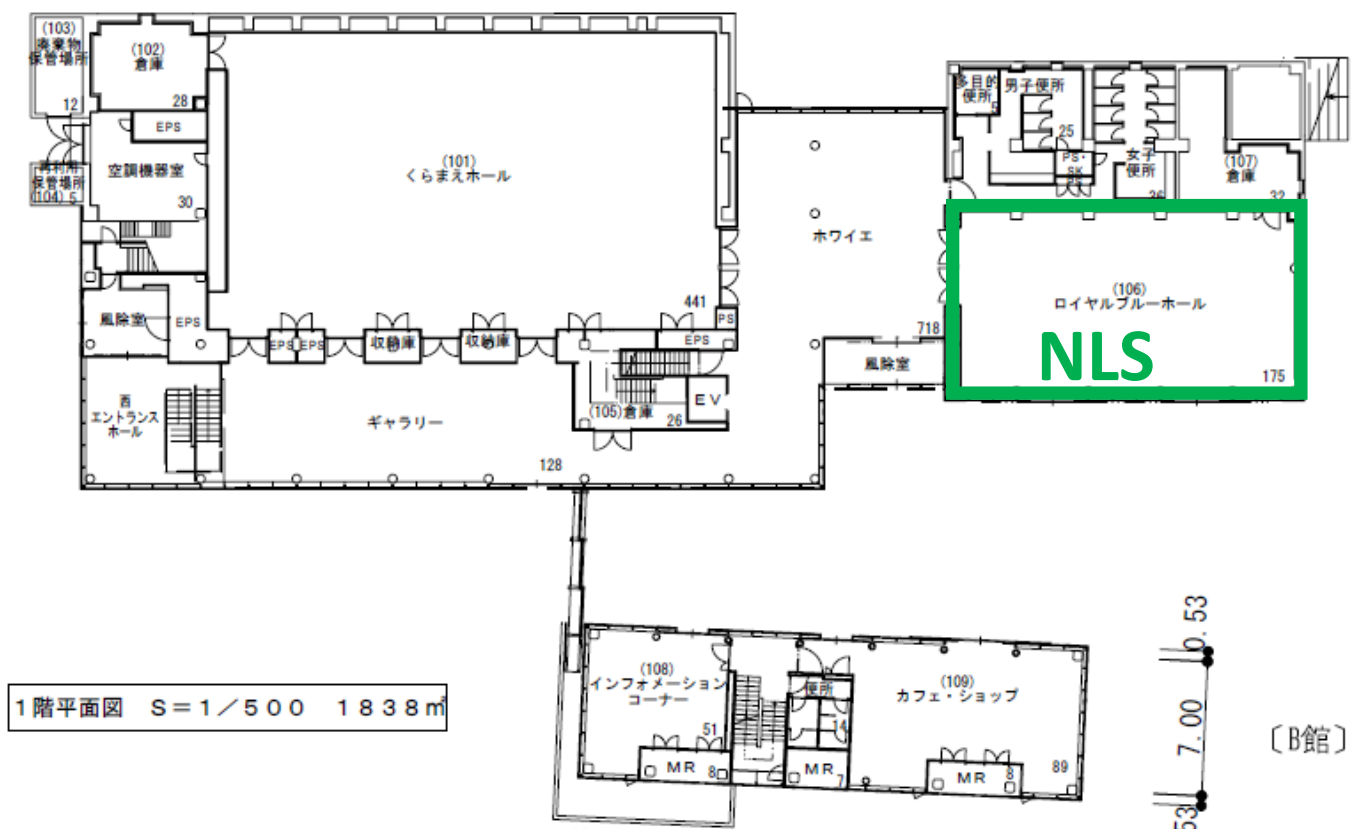
2F



North Bldg.1
1F
(Ground Floor)



EEI Bldg.
1F
(Ground Floor)



Tokyo Tech Front 1F (Ground Floor)

Reception

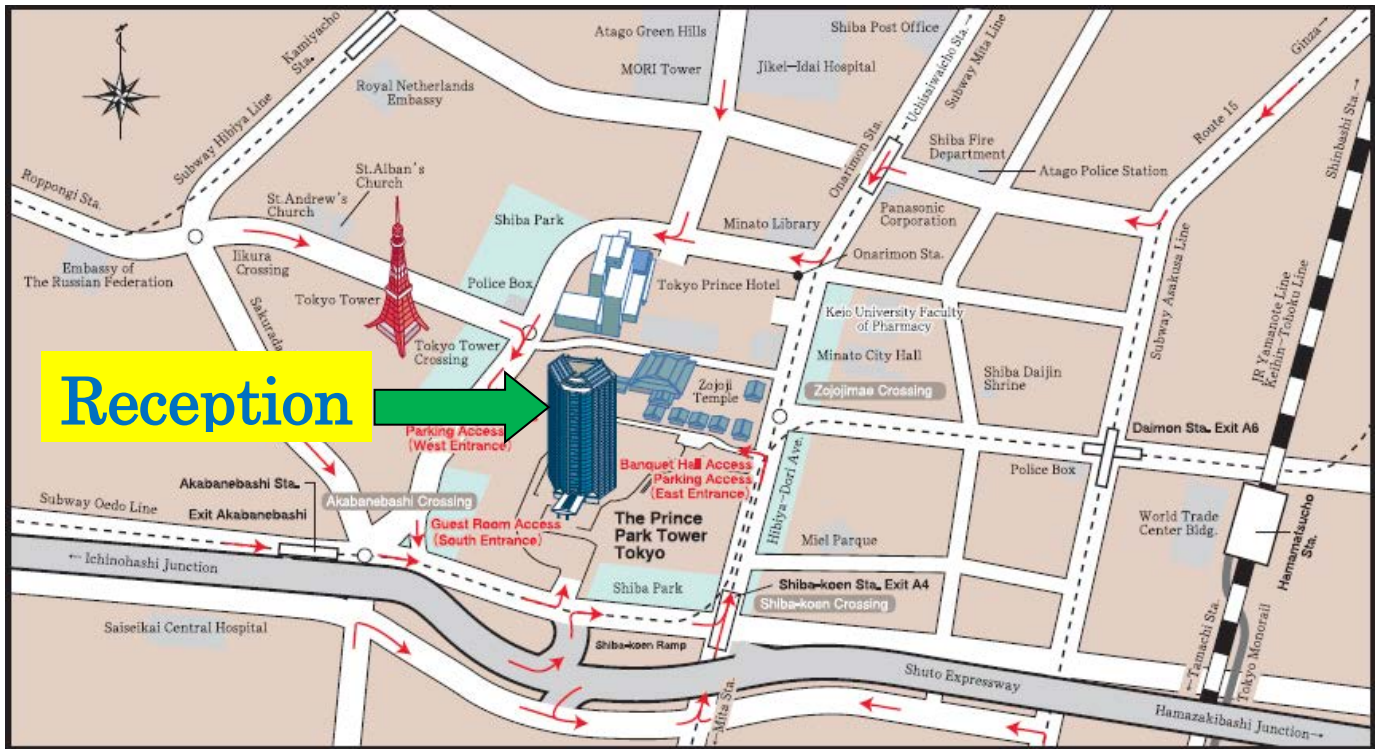
at 19:00-21:00 on 7th November

Sky Banquet (33F), Hotel The Prince Park Tower Tokyo

4-8-1 Shiba-koen, Minato-ku, Tokyo 105-8563, Japan

Phone +81-(0)3-5400-1111

URL: <http://www.princehotels.com/en/parktower/map-direction>



【Access】

By Car

From Tokyo Station, 4km (normally 10 min.). From Haneda Airport, 16km (normally 15min.) on Metropolitan Expressway. From Tokyo City Air Terminal (T-CAT Hakozaeki), Approx, 15min.

By Train

From Hamamatsucho Station on JR Line or Tokyo Monorail, 12-min. walk.

From Akabanebashi Station (Akabanebashi Exit) on Tokyo Metro subway Oedo Line, 2-min. walk.

From Shiba-koen Station (Exit A4) on Tokyo Metro subway Mita Line, 3-min. walk.

From Daimon Station (Exit A6) on Tokyo Metro subway Asakusa Line or Oedo Line, 9-min. walk.