

ACTINIDES 2017

July 9-14, 2017
SENDAI, JAPAN



Program

The picture which represents the black-to-white color transition denotes “solving a riddle” in actinide science. The point illumination implies Cherenkov radiation, of which Date Masamune, the legendary warrior and leader in Sendai, is heading for the center.

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Program

Mon., July 10

Hall

8:00 Registration

8:30 Opening

Plenary 1, Chair: T. Ogawa

9:00 MoA-1(Plenary)

Hajimu Yamana Nuclear Damage Compensation and Decommissioning Facilitation Corporation

Actinide research for the legacy of damaged nuclear facilities

9:45 Break

Physics 1, Chair: R. Caciuffo

10:05 MoA-2(Invited)

Johann Bouchet CEA/DAM/DIF

Vibrational properties of uranium and plutonium

10:35 MoA-3

Alexander V. Andreev Institute of Physics, Academy of Sciences, Na Slovance 2, 18221 Prague, Czech Republic

Magnetic properties of $UCo_{1-x}Os_x$ Al solid solutions: transition from itinerant meta-magnetism to ferromagnetism

10:50 MoA-4

Ladislav Havela Faculty of Mathematics and Physics, Charles University, Prague

Influence of hydrogen on electronic properties of U

11:05 MoA-5

Ai Nakamura Institute for Materials Research, Tohoku University

Single Crystal Growth and de Haas-van Alphen Effect of $ThCu_2Si_2$

11:20 MoA-6

Fuminori HONDA Institute for Materials Research, Tohoku University

Single crystal growth and physical properties of $AnTSi_3$ compounds ($An = actinide$, $T = transition metal$)

11:35 MoA-7

Yudai Shigekawa Osaka University

Measurement of half-life and IC-electron-spectrum variation of ^{235m}U for various chemical environments

12:05 Lunch

12:50 Poster MoPS

Environment 1, Chair: A. Kitamura

- 14:50 **MoA-8**
Atsushi Ikeda-Ohno Helmholtz-Zentrum Dresden-Rossendorf, Institute of Resource Ecology
Fate of Plutonium Released from a Former Nuclear Weapons Test in Australia
- 15:05 **MoA-9**
William R Bower The University of Manchester
Alteration of uranic particles in flow-through sediment systems
- 15:20 **MoA-10**
Kristijonas Plausinaitis Imperial College London
Reversible Pb Adsorption in Geological Waste Repository Conditions
- 15:35 **MoA-11**
Norikazu Kinoshita Institute of Technology, Shimizu Corporation
Search for Pu-244 in manganese crusts
-

15:50 **Break**

Chemistry 1, Chair: S. Suzuki

- 16:15 **MoA-12**
Attila Kovacs European Commission, Joint Research Centre, Karlsruhe, Germany
Molecular and electronic structure of actinyl nitrates
- 16:30 **MoA-13**
Lei Mei Institute of High Energy Physics, CAS
Effects of Cucurbituril-based Inclusion on Coordination Assembly Behaviors of Dicarboxylates with Uranyl
- 16:45 **MoA-14**
Elodie DALODIERE Institut de Chimie Separative de Marcoule, UMR 5257, CEA-CNRS-UM-ENSCM, Site de Marcoule, BP17171, 30207 Bagnols sur Ceze, France
Facile Sonochemical Preparation of Pu(V) in Aqueous Solutions and Its Characterization by XAS and NMR
- 17:00 **MoA-15**
Kenji Takeshita Advanced Nuclear Fuel Cycle Unit, Institute of Innovative Research, Tokyo Institute of Technology, Japan
Extraction Chromatographic Separation of Am(III) and Eu(III) by Porous Silica coating TPPEN-NIPA Gel
- 17:15 **MoA-16**
Yuji Sasaki Japan Atomic Energy Agency
Mutual separation of trivalent lanthanide and actinides by hydrophilic and lipophilic multidentate diamides

Conference Room

9:45 Break

Fuels 1, Chair: Y. Pipon

- 10:05 **MoB-1**(Invited)
Masahide Takano Japan Atomic Energy Agency
Phases and morphology in U-Zr-Gd-Fe-Ca-O systems as main component of oxide corium
- 10:35 **MoB-2**(Invited)
Romain Vauchy CEA, DEN, MAR, DMRC, SFMA, LCC, Centre de Marcoule, F-30207 Bagnols-sur-Ceze
High temperature X-ray powder diffraction study of lattice thermal expansion of $Pu_{1-z}Am_zO_2$ mixed oxides
- 11:05 **MoB-3**
Ki-Hwan Kim Korea Atomic Energy Research Institute
Interaction Studies between U-Zr Alloy System and Ceramic Plasma-spray
- 11:20 **MoB-4**
Marjorie Bertolus CEA, DEN
Atomic scale investigation of Krypton diffusion in uranium dioxide
- 11:35 **MoB-5**
Eleanor Lawrence Bright University of Bristol, UK
Uranium Nitride Thin Films for Accident Tolerant Fuels Research
- 11:50 **MoB-6**
Hirokazu Hayashi Nuclear Science and Engineering Center, Japan Atomic Energy Agency
Dissolution and chemical analysis of ZrN-based nitrides
-

12:05 Lunch

12:50 Poster MoPS

Decommissioning, Chair: T. Kimura

- 14:50 **MoB-7**
Richard Wilbraham Engineering Department, Lancaster University
Raman and Electrochemical Studies of Advanced Gas Reactor Simulated Spent Nuclear Fuels under Geological Disposal Conditions
- 15:05 **MoB-8**
Michael Uwe Ochs Arcadis Switzerland
Retention of Uranium in Cement Systems: Effects of Cement Degradation and Complexing Ligands
- 15:20 **MoB-9**
Takamitsu Ishidera Japan Atomic Energy Agency
Sorption Behavior of U, Np and Am on Zeolite

15:35 **MoB-10**

Toru Kitagaki IRID / JAEA (CLADS)

Characterization of the VULCANO test products for fuel debris removal from the Fukushima Daiichi Nuclear Power Plant

15:50 **Break**

Nuclear Forensics, Chair: Kimura, Halevy

16:15 **MoB-11**

Itzhak Halevy Department of Physics, IAEC-NRCN, Beer-Sheva, Israel

Image Processing And Particle Analysis Of Fission-Track-Analysis In Nuclear Forensic

16:30 **MoB-12**

Chu-Ting Yang Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics

Separation and Analysis of Uranium in the SRM IAEA-384 and 385

16:45 **MoB-13**

Anya C Keatley University of Bristol / AWE

An investigation into the heterogeneity of vein type uranium ore deposits: Implications for nuclear forensic analysis

17:00 **MoB-14**

Alonso Castro Los Alamos National Laboratory, USA

Rapid Determination of Uranium Isotope Ratios by Laser Absorption Spectroscopy

17:15 **MoB-15**

Yoshiki Kimura Japan Atomic Energy Agency

Material Discrimination Analysis by Particle Shape of Nuclear Materials for Nuclear Forensics Application

Tue., July 11

Hall

8:00 Registration

Plenary 2, Chair: Kenji Takeshita

8:30 **TuA-1**(Plenary)

Karsten Meyer Friedrich-Alexander University Erlangen-Nurnberg

Electrocatalytic Production of H₂ from Water with f-element-based molecular catalysts

Separation and reprocessing 1, Chair:T. Grimes

9:15 **TuA-2**(Invited)

Andreas Geist Karlsruhe Institute of Technology (KIT)

SO₃-Ph-BT(B)P, highly efficient complexing agents for actinide ions — - insights from basic studies applied to process development

9:45 **TuA-3**

Marie Simonnet Japan Atomic Energy Agency, Materials Research Center, Actinide Group

Cesium liquid-liquid extraction by calix-crown-ethers

10:00 **TuA-4**

Hirohide Kofuji Japan Atomic Energy Agency

Characteristics of TPDN/SiO₂-P adsorbent for MA(III) recovery

10:15 Break

Separation and reprocessing 1, Chair:T. Grimes

10:35 **TuA-5**(Invited)

Artem V Gelis Argonne National Lab

Progress in Research and Development of the Actinide Lanthanide SEPARation Process — ALSEP

11:05 **TuA-6**

Suliang Yang China Institute of Atomic Energy

Spectroscopic study on the mechanism of extracting Nd(III) from nitrate/perchlorate media by tetraoctyl-diglycolamide in 1-octanol

11:20 **TuA-7**

Evgenia V. Lyzlova Federal State Unitary Enterprise MAYAK Production Association

Development of the Sorption Method for Selective Extraction of Americium and Plutonium from Intermediate Level Waste Nitric-Acid Solutions

11:35 **TuA-8**

Clotilde Gaillard Institut de Physique Nucleaire de Lyon, CNRS, university of Lyon, France

Use of ionic liquids for the extraction of actinides and lanthanides: synergic effects, task-specific extractants

12:05 Lunch

Plenary 3, Chair: L. Havela

13:00 **TuA-9**(Plenary)
Krzysztof Gofryk Idaho National Laboratory, Idaho Falls, ID 83415, USA
Exotic thermal behaviours in uranium dioxide

Physics 2, Chair: L. Havela

13:45 **TuA-10**(Invited)
Peter S Riseborough Physics Department, Temple University, Philadelphia, PA 1, USA9122
Unusual Magnetic Field-Dependence in the Hidden Ordered Phase of URu₂Si₂

14:15 **TuA-11**(Invited)
Dai Aoki IMR, Tohoku University
Ferromagnetic Superconductivity and Field Induced Phenomena in Uranium Compounds

14:45 **TuA-12**
Rikio Konno Kindai University Technical College
Thermal Expansion of Nearly Ferromagnetic Metals Resulting from the Volume Dependence of Localized Spin Fluctuations That Include Zero Point Component

15:00 **Break**

Physics 3, Chair: Y. Onuki

15:25 **TuA-13**(Invited)
Shin-ichi Fujimori Materials Sciences Research Center, Japan Atomic Energy Agency
Probing U 5f electronic structure of strongly correlated uranium compounds by photo-electron spectroscopy

15:55 **TuA-14**(Invited)
Roberto Caciuffo European Commission, Joint Research Centre (JRC), Postfach 2340, DE-76125 Karlsruhe, Germany
Synchrotron radiation studies of the heavy-fermion superconductor PuCoGa₅

16:25 **TuA-15**
Fabrice Wilhelm ESRF
Magnetism of actinides probed with XANES and XMCD spectroscopy

16:40 **TuA-16**
Emma Rose Gilroy University of Bristol
Uranium Based Spintronics

16:55 **Break**

Chemistry 2, Chair: Y. Okamoto

17:10 **TuA-17**
Evgeny V. Alekseev Institut für Nukleare Entsorgung, Forschungszentrum Jülich, 52428 Jülich, Germany / Institut für Kristallographie, RWTH Aachen University, Jägerstrasse 17-19 52066 Aachen, Germany
NEW INSIDE INTO U(V) CHEMISTRY IN SIMPLE AND COMPLEX OXIDES

17:25 **TuA-18**
Marcus ALTMAIER Karlsruhe Institute of Technology (KIT-INE)
Aquatic chemistry and thermodynamics of actinides at elevated temperature: research within THERMAC, a German collaborative project

- 17:40 **TuA-19**
Jun Wen Institute of Nuclear Physics and Chemistry, China Academy of Engineering
Physics
Solvent effects in the colorimetric detection of UO_2^{2+} by substituted tetraphenylethene
- 17:55 **TuA-20**
Taishi Kobayashi Kyoto University
Thermodynamic Study on the Complexation of U(IV) with Isosaccharinic Acid

Conference Room

Nuclear Medicine, Chair: T. Yamamura

9:15 **TuB-1**

Koshin Washiyama Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University

Optimization of ^{225}Ac labelling to DOTA conjugated peptide for targeted alpha therapy

9:30 **TuB-2**

Peter Kunz TRIUMF, 4004 Wesbrook Mall, Vancouver, BC V6T 2A3, Canada / Department of Chemistry, Simon Fraser University, Burnaby, BC V5A 1S6, Canada

Medical Isotopes from ISAC Actinide Targets

9:45 **TuB-3**

Yukie Yoshii National Institutes for Quantum and Radiological Science and Technology

Development of method to reduce radiation exposure to the large intestine during ^{223}Ra alpha therapy with barium sulfate

10:15 **Break**

Fuels 2, Chair: R. Vauchy

10:35 **TuB-4**(Invited)

Ondrej Benes European Commission, Joint Research Centre, Karlsruhe

Thermophysical properties of minor actinide containing fuel for transmutation

11:05 **TuB-5**(Invited)

Yves Pipon Univ Lyon, CNRS-IN2P3, IPNL, France

Study of molybdenum and caesium migration in stoichiometric and hyperstoichiometric uranium dioxide

11:35 **TuB-6**

Masahiko Machida Japan Atomic Energy Agency

Ab-initio Calculations of Thermal Properties of Actinide Dioxides

11:50 **TuB-7**

Dominik Legut IT4Innovations Center, VSB - Technical University of Ostrava, Czech Republic

Correlations effects and the importance of spin-orbit coupling for lattice dynamics of UC and UO₂

12:05 **Lunch**

Material Science 1, Chair: B. Ao

13:45 **TuB-8**

Xiaolin Wang China Academy of Engineering Physics

Recent Advances in the Research on Uranium Hydriding Behavior in China

14:00 **TuB-9**

Ephraim Bulemela Canadian Nuclear Laboratories (CNL)

Synthesis and Characterization of Th(IV) and U(IV) triflates by X-Ray Photoelectron Spectroscopy (XPS) and Scanning Electron Microscopy-Energy Dispersive X-ray Spectroscopy (SEM-EDS)

14:15 **TuB-10**

Joseph Edward Sutcliffe University of Bristol

Isothermal Martensitic Transformations in Metastable Uranium Alloys

15:00 Break

Separation and reprocessing 2, Chair:A.V. Gelis

15:25 **TuB-11**

Yan Zhang China Institute of Atomic Energy

Spectroscopic Study on the Extracted Complexes of Nd(III)/Eu(III) with DEHDGA

15:40 **TuB-12**

TORU KOBAYASHI Japan Atomic Energy Agency

Actinides extraction and complexation mechanisms of O, N-hetero donor ligand PTA

15:55 **TuB-13**

Gael Loubert Unite de Catalyse et Chimie du Solide (UCCS) / Commissariat a l'Energie Atomique (CEA)

Study of the quantitative precipitation of uranyl ion by organic ligands in concentrated aqueous nitric acid solution

16:10 **TuB-14**

Michael Anthony Bromley Lancaster University

The Effects of Nitric Acid on the Extraction Properties of TODGA During Fission Product Management

16:25 **TuB-15**

Weiqun Shi Laboratory of Nuclear Energy Chemistry, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049

Achieving Actinide and Lanthanide Group Separation with Hard—Soft Donor Combined Ligands

16:40 **TuB-16**

Kalman Toth European Commission, Joint Research Centre, Directorate for Nuclear Safety and Security, Standards for Nuclear Safety, Security and Safeguards Unit

Research on long-term stability of mixed U and Pu large-sized dried (LSD) spikes for fissile material control

16:55 Break

18:20 MEXT project Special Session -Actinides Basics for decommissioning of Fukushima Daiichi Nuclear Power Station (tentative) -

Wed., July 12

Hall

8:00 Registration

Plenary 5, Chair: D. Clark

8:30 **WeA-1**(Plenary)

Stefan George Minasian Lawrence Berkeley National Laboratory

Harnessing the Principles of Coordination Chemistry to Control the Growth of Actinide Materials

Physics 4, Chair: S. Fujimori

9:15 **WeA-2**(Invited)

Shunichiro Kittaka Institute for Solid State Physics, University of Tokyo, Kashiwa, Chiba 277-8581, Japan

Field-angle-resolved Specific Heat of Uranium Superconductors

9:45 **WeA-3**

Hideki Tou Department of Physics, Kobe University

Anomalous superconducting phase diagram in heavy fermion superconductor UBe_{13} studied by surface impedance measurements

10:00 **WeA-4**

Jean-Christophe Griveau DG Joint Research Centre-JRC

Extensive studies of $^{242}PuCoGa_5$ single crystal at low temperature

10:15 Break

Material Science 2, Chair: P. Allen

10:35 **WeA-5**

Brice Ravat CEA - Centre de Valduc, 21120 Is sur Tille, France

Oxidation kinetics of Pu stabilized in delta-phase

10:50 **WeA-6**

Dominic Laventine Lancaster University, Department of Engineering, UK

Direct Mass Analysis of Water Absorption onto Ceria, Urania and Thoria Thin Films

11:05 **WeA-7**

James Edward Darnbrough University of Bristol

The interaction between hydrogen and uranium thin films studied by synchrotron X-ray radiation

11:20 **WeA-8**

François Delaunay CEA, Centre de Valduc, F-21120 IS-sur-TILLE, FRANCE

H₂O Adsorption and Dissociation on oxidized Pu metal

11:35 **WeA-9**

Akihiro Uehara Research Reactor Institute, Kyoto University

High temperature reactions of UO_2 , ZrO_2 , B_4C , CaO , and SiO_2 : X-ray absorption fine structure and X-ray diffraction analyses

11:50 **WeA-10**

Sergey E. Vinokurov Vernadsky Institute of Geochemistry and Analytical Chemistry of RAS

Magnesium potassium phosphate matrix for immobilization of actinide-containing radioactive waste: phase composition, structure, mechanical and radiation stability, hydrolytic resistance

12:05 **Lunch**

12:50 **Poster WePS**

15:10 **Group Photo**

15:30 **Excursion**

19:00 **Conference Dinner**

Conference Room

Environment 2, Chair: A. Ikeda-Ohno

9:15 **WeB-1**

Jian Zheng National Institute of Radiological Sciences, QST, Japan

Pu distribution in seawater and sediments in the Pacific off Fukushima after the FDNPP accident

9:30 **WeB-2**

Masato Morita Department of Applied Physics, Kogakuin University

Development of micro-imaging technique for trace analysis of radionuclide by using multicolor resonance ionization

9:45 **WeB-3**

Hauke Bosco Institute for Radioecology and Radiation Protection, Gottfried-Wilhelm-Leibniz-University Hannover

Spatially resolved ultra-trace analysis on actinides and their fission products by rL-SNMS

10:15 **Break**

Chemistry 3, Chair: Karsten Meyer

10:35 **WeB-4**

Michael A Chimes Lancaster University

Reduction Reactions of Neptunium & Neptunium Analogues with Nitrogen Oxide Species

10:50 **WeB-5**

Christopher Zarzana Idaho National Laboratory, Idaho Falls, USA

Gas-Phase Spectroscopic Characterization of Ionic Liquid-Hexafluorouranate Clusters

11:05 **WeB-6**

Gabriel L. Murphy School of Chemistry, University of Sydney, New South Wales, Australia. / Australian Nuclear Science and Technology Organisation, Lucas Heights, New South Wales, Australia.

A Phenomenological Study into the Anomalous Transformative Behaviour of SrUO₄

11:20 **WeB-7**

Jean Aupiais CEA DAM DIF

Contribution of capillary electrophoresis — ICPMS for the study of actinide — protein interactions

11:35 **WeB-8**

Satoru Tsushima Helmholtz-Zentrum Dresden-Rossendorf

Site-specific binding affinity of Eu(III) towards Ca-binding protein calmodulin: A combined spectroscopic and theoretical study

11:50 **WeB-9**

Andrej Skerencak-Frech Karlsruher Institute of Technology / Institute for Nuclear Waste Disposal

Complexation of Cm(III) with Dicarboxylic Acids: A combined Spectroscopic, Thermodynamic and Quantum-Chemical Study

12:05 **Lunch**

12:50 **Poster WePS**

Thr. July 13

Hall

8:00 **Registration**

Plenary 4, Chair: T. Yaita

8:30 **ThA-1**(Plenary)

Tatsuya Higashi National Institute of Radiological Sciences (NIRS) National Institutes for Quantum and Radiological Science and Technology (QST)

Recent advances of Targeted Radioisotope Therapy (TRT) research

Chemistry 4, Chair: D. Clark

9:15 **ThA-2**

Martin Maximilian Maiwald Universitat Heidelberg, Physikalisch-Chemisches Institut

Thermodynamics of the neptunium (V) complexation with fluoride and sulfate at elevated temperatures

9:30 **ThA-3**

Carsten Koke Heidelberg University, Germany

Fluorescence Spectroscopy of Aqueous Cm(III) Halide and Pseudohalide Complexes at Elevated Temperatures

9:45 **ThA-4**

Jeongmook Lee Korea Atomic Energy Research Institute

Surface characterization of (U,Nd)O₂: comparison with (U,Gd)O₂ and (U,Th)O₂

10:00 **ThA-5**

Chao XU Institute of Nuclear and New Energy Technology, Tsinghua University

The Complexation Behavior of U(VI) and Np(V) in Ionic Liquids

10:15 **Break**

Physics 5, Chair: H. Yamagami

10:35 **ThA-6**

Klaus D.A. Wendt University of Mainz

Laser-Spectroscopy of the Actinides — Investigation of Atomic Structures and Ionization Potentials

10:50 **ThA-7**

Hideki Tomita Nagoya University, Nagoya, Japan / RIKEN Nishina Center, Wako, Japan

Resonance Ionization Scheme Development for Actinide Elements using an Automated Wide-Range Tunable Ti:Sapphire Laser System

11:05 **ThA-8**

Xie-Gang Zhu Institute of Materials, China Academy of Engineering Physics

Fabrication and electronic structure characterization of Ce-La single crystal thin films

11:20 **ThA-9**

Yu Yang Institute of Applied Physics and Computational Mathematics

Roles of d states on the chemical properties of uranium

11:35 **ThA-10**
Ping Zhang Institute of Applied Physics and Computational Mathematics
First-principles studies of plutonium oxides and their surface interaction with gaseous molecules

11:50 **ThA-11**
Takeshi Aoki Tokyo Institute of Technology
Impacts of ^{240}Pu self-shielding effect and uncertainties of $\sigma(n, \gamma)$ at resonance energy on the reactivity controllability in HTGR inert matrix fuel

12:05 **Lunch**

Plenary 6, Chair: Y. Nagame

13:00 **ThA-12**(Plenary)
Hisaaki Kudo Department of Chemistry, Niigata University
Discovery of New Element, Nihonium, and Perspectives

Chemistry 4, Chair: Y. Ikeda

13:45 **ThA-13**
Roger Kloditz Helmholtz-Zentrum Dresden-Rossendorf, Institute of Resource Ecology
Real-space bonding analysis of tetravalent actinide complexes with N-donor ligands

14:00 **ThA-14**
John Arnold University of California, Berkeley / Lawrence Berkeley National Laboratory
New Reactivity in Actinide Chemistry Facilitated by Supporting Ligand Design

14:15 **ThA-15**
Kongqiu Hu Institute of High Energy Physics, Chinese Academy of Sciences
Solvent-Dependent Synthesis of Porous Anionic Uranyl—Organic Frameworks Featuring a Highly Symmetrical (3,4)-Connected ctn or bor Topology for Selective Dye Adsorption

14:30 **ThA-16**
Christelle Tamain CEA Marcoule
Coordination of tetravalent actinides with DOTA - from dimers to hexamers

14:45 **ThA-17**
Shu-Xian Hu Beijing Computational Science Research Center
Electronic structure and characterization of a uranyl di-15-crown-5 complex with an unprecedented sandwich structure

15:00 **Break**

Chemistry 5, Chair: S. Tsushima

15:25 **ThA-18**
Juliane Marz Helmholtz-Zentrum Dresden-Rossendorf
Coordination Chemistry of Uranium (U(IV) and -(VI)) with Bidentate N-donor Ligands, 2,2'-Bipyridine and 1,10 Phenanthroline

15:40 **ThA-19**
Thomas Radoske Helmholtz-Zentrum Dresden-Rossendorf
Interaction of Tetravalent Actinides (An(IV)) with Mixed N/O-Donor Imine Type Ligands

15:55 **ThA-20**
Sebastian Schone Helmholtz-Zentrum Dresden-Rossendorf, Institute for Resource Ecology

Synthesis and characterization of the first chiral benzamidinate complexes of tetravalent actinides (An(IV))

16:10 **ThA-21**

Shuao Wang Soochow University

What can Actinides Do for Metal-Organic Frameworks and What can Metal-Organic Frameworks Do for Actinides and Fission Products?

16:25 **ThA-22**

christophe Volkringer Unite de Catalyse et Chimie du Solide (UCCS) ? UMR CNRS 8181, Universite de Lille, ENSCL, Bat C7, BP 90108, 59652 Villeneuve d'Ascq, France

Coordination polymers of tetravalent neptunium with aromatic polycarboxylate ligands

16:40 **Break**

Chemistry 5, Chair: S. Tsushima

16:55 **ThA-23**

Koichiro Takao Laboratory for Advanced Nuclear Energy, Institute of Innovative Research, Tokyo Institute of Technology

Uranyl Lewis-acid Catalysts in Nucleophilic Acyl Substitution of Acid Anhydrides

17:10 **ThA-24**

Jipan Yu Institute of High Energy Physics

Phosphonate-Based Covalent Organic Framework for Selective Removal of U(VI): A Breakthrough under Strong Acid Condition

17:25 **ThA-25**

Matthieu Virot Universite de Montpellier, Institut de Chimie Separative de Marcoule, UMR 5257, CEA-CNRS-UM-ENSCM, Site de Marcoule, BP17171, 30207 Bagnols sur Ceze, France.

Preparation of a Water Soluble Plutonium (IV) Cluster: A preliminary Study

17:40 **ThA-26**

Joy Hannah Farnaby University of Glasgow

Hetero-metallic radical complexes of the f-elements

Conference Room

Separation and reprocessing 3, Chair: A. Geist

- 9:15 **ThB-1**(Invited)
Travis S. Grimes Idaho National Laboratory, ID, United States
Kinetics of the Autoreduction of Hexavalent Americium in Nitric Acid
- 9:45 **ThB-2**
Masaumi Nakahara Japan Atomic Energy Agency
Electrochemical Properties of Zirconium in Highly Concentrated Plutonium Nitrate Solution
- 10:00 **ThB-3**
Seung Park KAIST
Evaporation and Oxidation Characteristics of Europium Chloride in LiCl-KCl Molten Salt
-

10:15 **Break**

Separation and reprocessing 3, Chair: A. Geist

- 10:35 **ThB-4**
Kathleen Schnaars TU Dresden, Department of Chemistry and Food Chemistry, 01062 Dresden, Germany
4-Phosphorylpyrazolones as receptor molecules for f-block elements
- 10:50 **ThB-5**
Masahiko Nakase Japan Atomic Energy Agency
EXAFS study on gel/liquid extraction of f-block elements
- 11:05 **ThB-6**
Yaxing Wang School for Radiological and Interdisciplinary Sciences (RAD-X), Soochow University, China / Institute of Nuclear Science and Technology, Sichuan University, China
Lanthanide Separations by Borate Crystallization — A New Strategy to Lanthanide and Actinide Separations
- 11:20 **ThB-7**
Konstantinos Kavallieratos Department of Chemistry and Biochemistry, Florida International University / Applied Research Center, Florida International University
Sulfonamide and Pyrazole Ligands and Analogs for Coordination and Extraction of Lanthanides and Actinides
- 11:35 **ThB-8**
Hiroyuki Kazama Laboratory for Advanced Nuclear Energy, Institute of Innovative Research, Tokyo Institute of Technology
Synthesis and Characterization of 1-D Coordination Polymer Chains of Uranyl Nitrates with Double-Headed 2-Pyrrolidone Derivatives
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12:05 **Lunch**

Superheavy Elements, Chari: Y. Nagame

- 13:45 **ThB-9**(Invited)
James B Roberto Oak Ridge National Laboratory 1 Bethel Valley Road Oak Ridge, Tennessee 37831-6196
Element-117 discovery

14:15 **ThB-10**(Invited)
Alexander Yakushev GSI Helmholtz Center for Heavy Ion Research
Gas-phase chemistry of SHE at TASCA, GSI

14:45 **ThB-11**
Narumi Kondo Graduate School of Science, Osaka University
Liquid-liquid extraction of element 104, Rf, in the Aliquot 336/HCl system

Superheavy Elements, Chari: Y. Nagame

15:25 **ThB-12**(Invited)
Michael Block GSI / HIM / JGU
Laser spectroscopy on nobelium isotopes at GSI

15:55 **ThB-13**(Invited)
Tetsuya K. Sato Japan Atomic Energy Agency
First Ionization Potentials of Heavy Actinides

16:25 **ThB-14**
Hiroyuki Koura Advanced Science Research Center, Japan Atomic Energy Agency
'Island of stability' of superheavy nuclei

16:40 **Break**

Material Science 3, Chari: Y. Haga

16:55 **ThB-15**
Ruizhi Qiu China Academy of Engineering Physics
Density-functional study of plutonium monoxide monohydride

17:10 **ThB-16**
Shai Cohen Nuclear Research Center ? Negev
Surface Characterization and Oxidation of $U(Al_xSi_{1-x})_3$ at Elevated Temperatures

17:25 **ThB-17**
Olivier TOUGAIT Universite de Lille1 / Universite de Rennes1
Phase formation, stabilities and thermodynamical properties of the intermediate phases of the U-Al-X, X = Ga, Ge, ternary systems.

17:40 **ThB-18**
Silvie Maskova Department of Condensed Matter Physics, Faculty and Mathematics and Physics, Charles University, Prague, Czech republic
 U_3Si_2 — interaction with hydrogen

17:55 **ThB-19**
Elizabeth A Howett Lancaster University, LA1 4YW, UK
The Behaviour of Advanced Gas Reactor Simulated Spent Nuclear Fuels in Wet Interim Storage Conditions

Fri. July 14

Hall

8:00 Registration

Plenary 7, Chair: M. Altmaier

8:30 **FrA-1**(Plenary)
Dhanpat Rai Rai Enviro-Chem, LLC, Yachats, Oregon, USA
Thermodynamic Data Development: Solubility Method and Future Research Needs

Materials Science 4, Chair: Xiaolin Wang

9:15 **FrA-2**(Invited)
Patrick G Allen Lawrence Livermore National Laboratory
Characterization of Radiation Damage in Plutonium Alloys

9:45 **FrA-3**(Invited)
Bingyun Ao China Academy of Engineering Physics
Light Impurity Atoms as the Probes for the Electronic Structures of Actinide Dioxides

10:15 **FrA-4**
Boris Dorado CEA, DAM, DIF, F-91297 Arpajon, France
First-principles calculation of self-diffusion coefficients in actinide compounds

10:30 **FrA-5**
Hiroki Nakamura Japan Atomic Energy Agency
A First-Principles Study on Point Defects in Plutonium Dioxide

10:45 **FrA-6**
Michael Shandalov NRCN
A New Solid Solution Approach for the Study of Self-Irradiating Damage in non-Radioactive Materials

11:00 Summary

11:30 Presenting Actinides 2021

11:45 Closing

Conference Room

Spectroscopy, Chair: Y. Takeda

9:15 **FrB-1**

Igor N. Izosimov Joint Institute for Nuclear Research

Laser Spectroscopy and Detection of Actinides/Lanthanides in Solutions

9:30 **FrB-2**

James Gerard Tobin University of Wisconsin Oshkosh

Covalency in oxidized uranium

9:45 **FrB-3**

Vanessa Maren Timmermann Centre for Radiochemistry Research, School of Chemistry, The University of Manchester

Evaluating the solution structure of uranium(IV) DOTA-type complexes by ^1H NMR spectroscopy

10:00 **FrB-4**

Tsachi Livneh Department of physics, NRCN, Israel

Correlating temperature and pressure effects on the Raman scattering in UO_2

10:15 **FrB-5**

Hee-Kyung Kim Korea Atomic Energy Research Institute

Spectroscopic studies of Am(III) and Eu(III) hydrolysis reactions

10:30 **FrB-6**

Nicole Adam Karlsruhe Institute of Technology, Institute for Nuclear Waste Disposal

Interaction of human serum transferrin with Cm(III) using time-resolved laser fluorescence spectroscopy (TRLFS)

10:45 **FrB-7**

Peter Kaden Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Institute of Resource Ecology, 01328 Dresden, Germany

NMR investigations of paramagnetic effects in metal-organic complexes of trivalent and tetravalent actinides with soft-donor ligands

Poster MoPS (Monday 12:50)

- MoPS-1 **Akira Kirishima** *Study on leaching behavior of actinide elements from nuclear fuel debris generated by severe accident*
- MoPS-2 **Hirohito Watanabe** *Synthesis and Magnetic Measurement of Uranium Phthalocyanine*
- MoPS-3 **Masashi Kaneko** *Development of Uranyl Ion Sensing Method using Aggregation-Induced Emission Phenomenon*
- MoPS-4 **Shogo Nakajima** *SAXS study on temperature dependence of the solid phase transformation on the solubility of zirconium hydroxide*
- MoPS-5 **Toshiyuki Fujii** *Cation-Cation Interaction between $Np^V O_2^+$ and Li^+ in a Concentrated $LiCl$ Solution*
- MoPS-6 **Rafik BESBES** *Self-diffusion of Bk^{3+} in aqueous solutions at neutral pH and pH 2.5. Comparison with the trivalent f-elements (Eu^{3+} , Gd^{3+} , Tb^{3+} , Tm^{3+})*
- MoPS-7 **Tomoo Yamamura** *Uranium Superphthalocyanine: Purification and Electrochemistry*
- MoPS-8 **Hideaki Shiwaku** *In situ observation of uranyl solution photoreduction reaction*
- MoPS-9 **Keiichi Yokoyama** *Concept of Laser-assisted Separation and Recovery for f-electron elements*
- MoPS-10 **Masashi Kaneko** *Time-Dependent Density Functional Study on Tetravalent Uranium Hlides in Tetrahydrofuran Solution*
- MoPS-11 **Reisuke Doi** *Determination of the standard redox potential of the (Se_4^{2-}/HSe^-) system by cyclic voltammetry*
- MoPS-12 **Tae-Hong Park** *Spectroscopic and Electrochemical Study of Neptunium Complexes in $LiCl$ - KCl Molten Salts*
- MoPS-13 **Kazuki Ouchi** *The Behavior of Deposition following the Valence Change of Uranium in Weak acid Solution*
- MoPS-14 **Cristian Andree Celis-Barros** *Electronic Structure of $[BkCl_6]^{3-}$ and $[CfCl_6]^{3-}$*
- MoPS-15 **wei liu** *Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metal–Organic Framework Equipped with Abundant Lewis Basic Sites*
- MoPS-16 **Gui Da Xiang** *Hydrolytically Nanoporous Thorium Mixed Phosphite and Pyrophosphate Framework Generated from In-situ Redox-Active Ionothermal Reactions: an Inorganic Structural Analogue of MOF-5*
- MoPS-17 **Lin Xu** *Uptake Mechanisms of $Eu(III)$ on Hydroxyapatite: A Potential Permeable Reactive Barrier Backfill Material for Trapping Trivalent Minor Actinides*
- MoPS-18 **Jian Lin** *Probing the Influence of Acidity and Temperature to $Th(IV)$ on Hydrolysis, Nucleation, and Structural Topology*
- MoPS-19 **Yanli Li** *Probing electronic structure and chemical bonding of actinides by high resolution photoelectron imaging*
- MoPS-20 **Kaitlin Kim Karlotta Kammerlander** *A spectroscopic and computational study of trivalent f-element sorption onto α -chitin*
- MoPS-21 **Naoyuki Tateiwa** *Pressure dependence of spin fluctuation parameters in uranium ferromagnetic superconductor UGe_2*
- MoPS-22 **Chihiro Tabata** *Synchrotron X-ray Structure Analysis of UNi_4B*

- MoPS-23 **Mizuho Maeda** *Third-order Magnetic-Susceptibility of Itinerant-electron Metamagnet UCoAl*
- MoPS-24 **Noriaki Kimura** *Electrical Resistivity in the Vicinity of the Metamagnetic Critical Point in UCoAl*
- MoPS-25 **Yoshichika Onuki** *Single Crystal Growth and Fermi Surface Properties in ThSb₂ and ThBi₂*
- MoPS-26 **Kohei Ohashi** *Systematic study of the UNiX₂ ternary compounds (X=C, Si, Ge, Sn)*
- MoPS-27 **Akira Yamaguchi** *Construction of dc and ac magnetic-measurement system for a ferromagnetic superconductor, uranium digermanide*
- MoPS-28 **Hiroshi Amitsuka** *Crossover between Fermi-liquid and non-Fermi-liquid states in Th_{1-x}U_xBe₁₃ (0 < x < 1)*
- MoPS-29 **Shota Nakamura** *Magnetization Study on the Ising Ferromagnet URhGe with High-Precision Angle-Resolved Magnetic Field near the Hard Axis*
- MoPS-30 **Yoshinori Haga** *New actinide compounds with Al- and Ga- rich phases*
- MoPS-31 **Hiroshi Yamagami** *Long-range correlated band structure of uranium mononitride with LDA+STLS theory*
- MoPS-32 **Akira Oyamada** *Anomalous Hall Effect in a Triangular-Lattice Antiferromagnet UNi₄B*
- MoPS-33 **Jason Jeffries** *Emergent Ferromagnetism in USb₂ at High Pressure*
- MoPS-34 **Anton Filanovich** *Thermal expansion and bulk modulus of strongly correlated superconductor PuCoGa₅ from first principles*
- MoPS-35 **Stepan N Kalmykov** *COMPOSITION OF URANIUM IONS ON THE SURFACE OF UO₂ (111) SINGLE CRYSTAL FILM*
- MoPS-36 **Kimihiko Yano** *R&D Strategy on Mid- and Long-Term Behavior of Fuel Debris*
- MoPS-37 **Yukio Tachi** *Sorption Parameter Setting Approaches Considering Perturbation Effects for Radioactive Waste Disposal : Sorption Reduction Factors for Organics*
- MoPS-38 **Takayuki Sasaki** *Validation of actinides dissolved from 1F fuel debris into the cooling water system*
- MoPS-39 **Yosuke Akagi** *Diffusion and Sorption Behavior of HTO, Cs, I and U in OPC Mortar*
- MoPS-40 **Peter George Martin** *Investigating uranium-containing particulate from within Fukushima Prefecture*

Poster WePS (Wednesday 12:50)

- WePS-1 **Anatoly B. Melentev** *The Neptunium Behavior Control in the SNF Reprocessing Flowsheet of RT-1 Plant*
- WePS-2 **Yuri A. Voroshilov** *The Experimental Testing of Americium and Curium Separation Process With the Use of the Solid TODGA-Based Extractant*
- WePS-3 **Ryuhei Motokawa** *Third Phase Formation Induced by a Growth of Hierarchical Aggregation Structure in Biphasic Solvent Extraction Systems*
- WePS-4 **Olga Shmidt** *Sorption of Lanthanide and Actinide Ions from Nitrate Solutions on TODGA-Containing Sorbents*
- WePS-5 **Shinichi Suzuki** *Actinyl Elements Separation by branched N,N-dialkylmonoamide*
- WePS-6 **Tatsuo Matsumura** *Current status of R&D on minor actinide separation process with CHON Extractants in JAEA*
- WePS-7 **Dong-Yong Chung** *Development of a process for treatment of uranium waste*
- WePS-8 **Haruka Tateno** *Direct Extraction of Platinum Group Metals from Nitric Acid Solution Using Phase-Transition of Thermoresponsive Poly(N-isopropylacrylamide)*
- WePS-9 **xuemiao yin** *Lanthanide and Actinide Separations by Borate Crystallization*
- WePS-10 **Seong-Yun Kim** *Separation Behavior of Y(III) and Sr(II) from Acid Solutions by Extraction Chromatography using HDEHP impregnated Resin and Its Medical Application*
- WePS-11 **Michal Cibula** *Separation of platinum group metals in HNO₃ using thiodiglycolamide and amide-containing tertiary amine extractants*
- WePS-12 **Gerald Jomard** *Coupled first-principles and experimental positron annihilation study of defects in actinides mixed oxides*
- WePS-13 **Masashi Watanabe** *Raman spectra of non-stoichiometric (U_{1-y}Ce_y)O₂ solid solution*
- WePS-14 **Taku Matsumoto** *Temperature dependence on Inter-diffusion coefficient of Actinide Elements in MOX Fuel*
- WePS-15 **Yoshihisa Ikusawa** *Evaluation and Formulation of MOX Fuel Thermal Conductivity*
- WePS-16 **Yoshihiro Okamoto** *Chemical state analysis of simulated corium debris by EXAFS*
- WePS-17 **Seiya Takaki** *Lattice expansion in ZrN and Dy_{0.3}Zr_{0.7}N irradiated by 200 MeV Xe ions*
- WePS-18 **Hiroto Ishii** *Behavior of Liquid Caesium Halides on Solid Uranium Dioxide*
- WePS-19 **Ross Stuart Springell** *Actinide thin films: the study of nuclear fuels behaviour*
- WePS-20 **Lilian Berlu** *PM-IRRAS studies of gas-metal interactions*
- WePS-21 **Yaping Sun** *The study on chemical durability of natural titanite*
- WePS-22 **Gaku Motoyama** *Crystal Structure and Magnetic Properties of New Ternary Uranium Compound U₃TiBi₉*
- WePS-23 **Maayan Perez** *Chemical Deposition of (Pb,Th)Se Thin films for Self-Irradiating Damage Studies*
- WePS-24 **Tetsuhiro Sekiguchi** *Absorbent property of Fullerene for Cesium Isotope Separation using X-ray Photoelectron Spectroscopy*

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- WePS-26 **Kunihisa Nakajima** *Atmospheric effect on Cs chemisorption behaviors onto stainless steel*
- WePS-27 **Yukiharu Takeda** *Soft x-ray magnetic circular dichroism study on UGe₂*
- WePS-28 **Shimon Zalkind** *In-Situ X-ray Diffraction Measurements of U-0.1w%Cr Oxidation*
- WePS-29 **Oshrat Appel** *The Influence of External Stress on Hydrogen Attack in Uranium*
- WePS-30 **Haruyoshi Otake** *High-temperature reaction of B₄C with (Pu,U)O₂*
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- WePS-35 **Daniel Alexander Chaney** *A Thin Film Approach to Investigating High Temperature Point Defect Recovery in γ -(U-X)*
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- WePS-39 **Philippe Devaux** *Capture of radionuclides in Metal-Organic Frameworks*
- WePS-40 **Yuichiro Nagame** *Adsorption of Lawrencium (Lr) on a Metallic Tantalum (Ta) Surface*
- WePS-41 **Kazuma Kitabayashi** *Stability constants of EDTA, DOTA, EDTMP and DOTMP complex with Th(IV) for nuclear medicine*
- WePS-42 **Xiao mei Wang** *Syntheses and Structural Characterization of Uranyl Complexes with Glycine*
- WePS-43 **Jian Xie** *New Potential Application of Uranyl Organic Framework as Highly Sensitive Ionizing Radiations Dosimeter*

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