

Topical meeting on Condensed-matter Chemistry on Actinides : The Kumatori meeting 2021

Oral Session, Feb. 10th, 2021@Zoom

Chair	JST	Presenter	Title
A. Sunaga	10:00	T. Yamamura (KURNS, Kyoto Univ.)	Opening Remarks
	10:05	H. Yamagami (Kyoto Sangyo Univ.)	Objectives of this meeting
S. Kambe	10:15	Y. Haga (ASRC, JAEA)	Uranium-based intermetallics with layered structure: characterization and magnetism
	10:35	K. Ishida (Dept. Phys., Kyoto Univ.)	Superconducting Spin Susceptibility of UTe ₂
	10:55	T. Yaita (SPRING-8, JAEA)	Recent activities of Actinide Chemistries in the Materials Sciences Research Center of JAEA
	11:15	(Intermission)	
Y. Haga	11:25	N. Ishikawa (Dept. Chem., Osaka Univ.)	Observation of interaction between 5f electronic system and photo-excited cyclic π system
	11:45	T. Suzuki (Nagaoka Univ. Tech.)	Fundamental Study for Precise Analysis of Actinides in Hardly Soluble Substances Containing Uranium Oxides
	12:05	K. Washiyama (Fukushima Medical University)	Current status and prospects of domestic supply of alpha-emitting radionuclides
C. Tabata		Group photo (Capturing on Zoom)	
	12:25	(Lunch)	
M. Hino	13:00	Y. Kawabata (KURNS, Kyoto Univ.)	Current status and future plans of our institute
	13:15	T. Yamamura (KURNS, Kyoto Univ.)	Actinide researches using KUR hot-lab
T. Yamamura	13:30	M. Suzuki (KURNS, Kyoto Univ.)	The Future of Cyclotron-Based BNCR Research
	13:50	Break Session 1	
K. Shirasaki	14:50	T. Kitazawa (Dept. Chem., Toho Univ.)	Synthesis and Crystal Structures of Three New Complexes Constructed with Uranyl(VI)-acetylacetonate and Uranyl(VI)-nitrate
	15:10	T. Yoshimura (IRS, Osaka Univ.)	Preparation of guidelines for evaluation to ensure safety in the use of short-lived unsealed radioisotopes
	15:30	(Intermission)	
K. Ishida	15:40	H. Amitsuka (Hokkaido Univ.)	Odd Parity Multipole Ordering in Uranium Compounds
	16:00	T. Yanagisawa (Hokkaido Univ.)	Electric Quadrupolar Contributions in the Magnetic Phases of UNi ₄ B
	16:20	Break Session 2	
H. Tanaka	17:20	M. Manjum (Dept. Appl. Chem., Keio Univ.)	Electrochemical Formation of Samarium and Samarium-Cobalt Nanoparticles in a Pyrrolidinium-based Ionic Liquid
	17:40	T. Nomoto (Tokyo Inst. Tech.)	Drug delivery using functional polymer-conjugates
	18:00	(Intermission)	
H. Amitsuka	18:10	A. P. Goncalves (Universidade Lisboa, Portugal)	On the U-Fe-Ge system and its compounds
M. Abe	18:40	A. S. P. Gomes (Universite de Lille, France)	Electronic structure of actinide systems from relativistic correlated and quantum embedding approaches
Y. Haga	19:10	R. Caciuffo (EU JRC, Karlsruhe, Germany)	Radioisotopes for medical applications
A. Sunaga	19:40	S. Kambe (ASRC, JAEA)	Concluding Remarks 1
	19:50	H. Yamagami (Kyoto Sangyo Univ.)	Concluding Remarks 2
C. Tabata		Group photo (Capturing on Zoom)	

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Break Sessions, Feb. 10th, 2021@Zoom

Break Session 1 (13:50 - 14:50)				13:50 - 14:20	14:20 - 14:50
Room	Presenter	Afiliation	Title	Chair 1	Chair 2
1	H. Shishido	Tohoku Univ.	Proposals for the advanced nuclear fuel cycle by introducing a fusion reactor	M. Hino	T. Suzuki
2	M. Nakase	Tokyo Inst. Tech.	Development and characterization of phthalocyanine-derivatized ligands for recognition and complexation of light Actinide elements	K. Nagata	A. Kawaguchi
3	H. Nakai	Kindai Univ.	Development of ligands for new actinide complexes	T. Yamamura	T. Yaita
4	C. Tabata	Kyoto Univ.	Crystal structure and magnetic property of uranium phthalocyanine complexes	N. Ishikawa	Y. Haga
5	Y. Kasamatsu	Osaka Univ.	Co-precipitation experiment of group 2 elements with barium hydrosulfate toward chemical study of No	T. Kitazawa	A. Sunaga
6	K. Shirasaki	Tohoku Univ.	Extraction of strontium from aqueous solutions into HFC using dicyclohexano-18-crown-6 and perfluorinated polyethylene glycol derivative	M. Nogami	T. Kobayashi
7	Y. Sekiguchi	CRIEPI	Thermodynamic estimation of vaporization of CsI dissolved in LiF-NaF-KF molten salt	Y. Katayama	M. Yokota
8	F. Kon	Hokkaido Univ.	Observation of Antiferromagnetic Order in the Heavy-Fermion Compound UIr_2Ge_2 – Resonant X-ray Scattering	K. Ishida	T. Oda
9	A. Sato	Tokyo Met. Univ.	Theoretical study on isotope fractionation in uraninite	H. Yamagami	A. Toyoshima
10	Y. Kitawaki	Kyoto Sangyo Univ.	Orbital magnetization in many-electron systems described by spin-orbital-polarized coupled Dirac equation	M. Abe	T. Yanagisawa
Break Session 2 (16:20 - 17:20)				16:20 - 16:50	16:50 - 17:20
Room	Presenter	Afiliation	Title	Chair 1	Chair 2
1	T. Fukuda	JAEA	Present status of the study on energy conversion using actinides in radioactive wastes	T. Yoshimura	K. Kakinoki
2	T. Oda	Kyoto Univ.	Slow dynamics study by neutron resonance spin echo spectrometer	H. Amitsuka	H. Shishido
3	A. Sunaga	Kyoto Univ.	Theoretical study of the linearity of uranyl molecule based on relativistic correlation method	H. Yamagami	S. Kambe
4	M. Nogami	Kindai Univ.	Change in precipitation ability of treated cyclic urea compounds for selective precipitation of U(VI) species	H. Nakai	K. Maeda
5	Y. Homma	Tohoku Univ.	Mössbaure spectroscopy of the Eu-based skyrmion compounds $EuPtSi$ and $EuAl_4$	H. Takeuchi	T. Kitazawa
6	K. Nagata	Osaka Univ.	Synthesis of Actinium Complex with a Macrocyclic Having Pyridine Phosphonate Pendant Arms	M. Abe	M. Suzuki
7	T. Yamane	Nagaoka Univ. Tech.	Electrochemical method of minor actinide recovery from nitric acid solution using Ga liquid electrode and ionic liquid	T. Shimada	Y. Katayama
8	M. Yokota	Kindai Univ.	Adsorptivity of monoamide polymer adsorbent impregnated with PPTPT to metal ions in neutral aqueous solutions for recovery of uranium in seawater	K. Shirasaki	M. Iizuka
9	K. Mori	Kyoto Univ.	Introduction of Versatile Compact Neutron Diffractometer (VCND) at B-3 Beam Port of KUR	Y. Haga	F. Kon
10	T. Kobayashi	SPring-8, JAEA	XAFS study on the the aged deterioration of a simulated fuel debris	T. Tadokoro	C. Tabata