

# Agenda of User's meeting on "Condensed-matter Chemistry in Actinides and their Applications" and "Production of medical RIs by Reactor Irradiation"

**Location: Main Conference Room, Office Building, KURNS, Kyoto University. (Hybrid)**

Date	Time (JST)	Chair	Speaker	Affiliation	Title in Japanese (Tentative)	Title in English (Tentative)
Mar. 2	13:00~13:10 (10 min.)		Tomoo Yamamura	Institute for Integrated Radiation and Nuclear Science, Kyoto University	複合研、当該分野の共同利用、施設と将来計画	Combined Research Institute, joint use of the relevant fields, facilities and future plans
	13:10~13:20 (10 min.)		Hiroshi Yamagami	Kyoto Sangyo University	専門研究会の目標	Goals of Specialized Research Groups
	13:25~13:45 (20 min.)	Yamagami	Yoshinori Haga	Advanced Science Research Center, Japan Atomic Energy Agency	ウラン化合物超伝導体UTe <sub>2</sub> の単結晶育成と電子状態	Single crystal growth and electronic structure of uranium compound superconductor UTe <sub>2</sub>
	13:45~14:05 (20 min.)		Masahiko Nakase	Tokyo Institute of Technology	次世代再処理に向けたマイナーアクチノイド抽出のための新規溶媒抽出系探索の新しいアプローチについて	On a New Approach to Exploration of Novel Solvent Extraction Systems for Minor Actinide Extraction for Next Generation Reprocessing
	14:10~14:30 (20 min.)	Fukuda	Ayumi Ishii	Teikyo University of Science	希土類ハイブリッド材料が拓く新光機能	New optical functions opened up by rare-earth hybrid materials
	14:30~14:50 (20 min.)		Masanobu Nogami	Kindai University	アクチニルイオン配位性モノアミド化合物のFPイオンとの錯形成挙動	Complexation behavior of actinyl ion-coordinating monoamide compounds with FP ions
	15:00~15:20 (20 min.)	Kasamatsu	Kenji Shirasaki	IMR, Tohoku University	Ac-228を用いたDGAによる溶媒抽出	Ac-228 solvent extraction by DGA
	15:20~15:40 (20 min.)		Tohru Kobayashi	Actinide chemistry group, Materials Sciences research center, Japan Atomic Energy Agency	複合研の施設供用での成果とSPRING-8 JAEA播磨ラボとの現状について	Achievements in the facility utilization of the Combined Research Laboratory and the current status with the SPRING-8 JAEA Harima Lab.
	15:45~16:05 (20 min.)	Nakase	Yoshitaka Kasamatsu	Graduate School of Science, Osaka University	重アクチノイド、ノーベリウムの化学研究	Recent chemical researches on nobelium
	16:05~16:25 (20 min.)		Takashi Yoshimura	Radioisotope Research Center, Institute for Radiation Sciences, Osaka University	大阪大学放射線科学基盤機構の紹介	Introduction to Institute for Radiation Sciences, Osaka University
	16:30~16:45 (15 min.)	Yamamura	Yoshinori Sakurai	KURNS, Kyoto Univ.	米国ホットラボ視察報告(1)	Report on Survey of Hot Labs and RI Studies in the U.S. (1)
	16:45~17:00 (15 min.)		Hisao Yoshinaga	KURNS, Kyoto Univ.	米国ホットラボ視察報告(2)	Report on Survey of Hot Labs and RI Studies in the U.S. (2)
	17:00~17:10 (10 min.)		Tomoo Yamamura	Institute for Integrated Radiation and Nuclear Science, Kyoto University	施設に関する議論	Discussions on facilities

Mar. 3	8:00~8:05 (5 min.)		Masahiko Nakase	Tokyo Institute of Technology		Opening of 2nd-day Discussions
	8:05~8:30 (25 min.)	Nakase	Greg Piefer	SHINE Technologies, Inc.		Plan and prospect of SHINE Technology
	8:35~8:55 (20 min.)	Shirasaki	Laetitia H. Delmau	Oak Ridge National Laboratory		Overview of the Cf-252 and Pm-147 Production Efforts at ORNL
	9:00~9:20 (20 min.)	Sakurai	Rob Hall	MURR, Missouri University		Recent activities, systems, and facilities of MURR for radiopharmaceutical R&D
	9:25~9:45 (20 min.)	Fukuda	Toro Gonzalez	Oak Ridge National Laboratory		Lanthanide-based and Poly(lactic-co-glycolic acid) Nanoparticles in Targeted Alpha Therapy
	9:50~10:10 (20 min.)	Haga	Julie G. Ezold	Oak Ridge National Laboratory		Radiochemical Processing at Oak Ridge National Laboratory
	10:10~10:30 (20 min.)		Kenji Ishida	Kyoto University	ウラン化合物超伝導体の核磁気共鳴	Nuclear magnetic resonance in uranium compound superconductors
	10:35~10:55 (20 min.)	Yamagami	Hiroki Shishido	Tohoku University	マイナーアクチノイド燃料の CALPHAD計算に向けた第一原理計算	First-principles calculations for CALPHAD calculations of minor actinide fuels
	10:55~11:15 (20 min.)		Minoru Abe	Hiroshima University	アクチノイド化合物計算に向けた相対論的電子相関プログラム開発	Development of relativistic electron correlation program for calculation of actinide compounds
	11:20~11:40 (20 min.)	Shirasaki	Hiroyuki Kimura	Kyoto Pharmaceutical University	腫瘍を標的としたラジオセラノスティクス創薬と臨床応用	Tumor-targeted radio-ceranostics drug discovery and clinical application
	11:40~12:00 (20 min.)		Minoru Suzuki	Institute for Integrated Radiation and Nuclear Science, Kyoto University	量子ビーム生体システム解析・応用ユニットの成果	Quantum Beam Bio-Systems Analysis and Application Unit
	12:00~12:20 (20 min.)	Toyama	Tatsuya Suzuki	Nagaoka University of Technology	酸化トリウムの溶解とラジウム分離	Dissolution of Thorium Oxide and Separation of Radium
	12:20~12:30 (10 min.)		Yoshinori Haga	Advanced Science Research Center, Japan Atomic Energy Agency	Concluding Remarks	Concluding Remarks
	14:00~15:00 (60 min.)		Mari Toyama	KURNS, Kyoto Univ.	施設見学 (KUR、HL)	Facility Tour (KUR, HL)