Multi-Spectral Radiation Analysis for Materials Innovation open Symposium

- From Cultural Heritages to Medical Applications -

Date and Time

November 28 (Fri.) - 29 (Sat.), 2025 Reception stars at 8:30AM, Symposium stars at 8:50 AM

Venue

Kunibiki Messe (Shimane Prefectural Convention Center) Multipurpose Hall

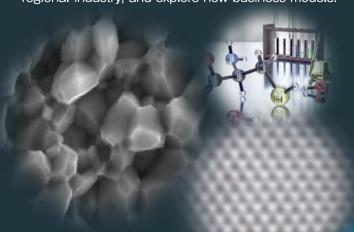
1-2-1 Gakuen Minami, Matsue City, Shimane Prefecture 690-0826, Japan

Open to everyone

Participation is free

Japanese-English simultaneous interpretation Available

We are pleased to announce the upcoming international symposium introducing the unique research platform, "Technology for Material **Analysis and Evaluation Using Multi-Optical** Measurement", developed by Shimane University, along with cutting-edge research from around the world. This event aims to unveil the propagation routes of Izumo culture, promote the revival of regional industry, and explore new business models.





We will introduce the latest research utilizing various

*For details, please check the schedule on the back of the flyer.

Nov.28(Fri.)

analytical techniques.

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sustainable future from

Shimane

Poster Session

Poster session will be held for students and Early-Career researchers.

*We can only accept the first 40 applicants as presenters.

The student Award and the Early-Career Researcher Award will be presented.

Nov.29 (Sat.) Historical Site Visit

We will hold a field trip connecting the historical traditions and science and technology of Shimane.





*Each course is limited to the first 50 applicants.

Please note that the course may be cancelled if there are too few participants.

Exhibition Booth

Exhibition booths by local governments and companies are available.

Please register on our website.

Registration Deadline November 14

*Please note that the registration period may close earlier than scheduled depending on demand. *An online broadcast is planned for interested participants later (limited period, registration required).

Online streaming available

Accommodation information available



<Organizer>



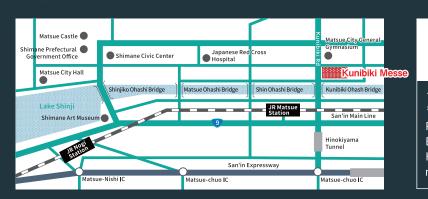
SHIMANE UNIVERSITY

<Co-organizers>

Shimane Prefectural Government, Matsue Convention Bureau Kunibiki Messe Next Generation Tatara Co-Creation Centre(NEXTA Forum held simultaneously)

Time Schedule

	Time	Title	Presenter
	8:50-9:00	Opening Remarks	President Hiroki Otani (Shimane University)
November 28th (Fri.)		Optical imaging	
	9:00-9:40	Quantitative microscopy in understanding neurodegeneration: Scope and limitations of confocal microscopy	Associate Professor Lopamudra Giri (Indian Institute of Technology Hyderabad)
	9:40-10:20	Metabolomics based on Raman spectroscopy	Professor Malgosia Baranska (Jagiellonian University)
	10:20-11:00	Raman spectroscopy for prevention, pre-disease and diagnostic analyses	Professor Hidetoshi Sato (Kwansei Gakuin University)
	11:00-11:40	Advances in Clinical Optical Imaging Technologies	Principal Innovator Hrebesh Subhash (QuantaMetra Al LLC)
	11:40-12:00	Applications of Al-assisted Raman spectroscopy: From single cell biology to diagnostics	Associate Professor Hemanth Noothalapati (Shimane University)
	12:00-13:00	Lunch + Poster Session	
		Multi-spectral Radiation Analysis for Industrial application	ons
	13:00-13:40	Holographic Optical Elements in Optical Interferometry: New Frontiers in Quantitative Phase Imaging and Precise Temperature Measurement	Professor Chandra Shakher (Indian Institute of Technology Delhi)
	13:40-14:20	Optical Sensing Technology tailored for advanced industrial applications	Professor Rajan Jha (Indian Institute of Technology Bhubaneswar)
	14:20-15:00	To be determined	Dr. Yuichi Yoshimura (Kajima Corporation)
	15:00-15:20	Multimodal Metrology Using Digital Holography for Industrial Application: Multispectral Shape Measurement and Defect Detection Techniques	Professor Masayuki Yokota (Shimane University)
	15:20-15:40	Luminescence-Based Imaging Analysis of metals	Professor Susumu Imashuku (Shimane University)
	15:40-16:00	Coffee Break	
		Microscopic characterization of materials	
	16:00-16:40	Titanium phosphate glasses: Beyond tetrahedral network structures	Professor Philip Salmon (University of Bath)
	16:40-17:20	Chemical short-range order and local lattice distortions in High-Entropy Alloys: state of the art	Dr. Andrea Fantin (Bundesanstalt für Materialforschung und -prüfung)
	17:20-18:00	Development and Application of Magnetic-field-free Atomic-Resolution Electron Microscopy	Professor Naoya Shibata (University of Tokyo)
	18:00-18:20	In-situ transmission electron microscopy of defect dynamics of in metallic materials	Professor Kazuto Arakawa (Shimane University)
	18:20-18:40	Biological Imaging from the Macro to Nanoscale	Associate Professor Ben Urban (Shimane University)
	18:40-20:30	Banquet + Poster Session	
		Synchrotron and Histrical resources of Shimane	
Nove	9:00-9:30	The acquisition and utilization of raw materials for dōtaku using lead isotope analysis	Associate Professor Kunihiko Shimizu (Shimane University)
		a analysis	
ονе	9:30-10:00	Development of a Nationwide Sediment Database Using Synchrotron Radiation	Senior Principal Researcher Keiichi Osaka (Japan Synchrotron Radiation Research Institute)
ovemb	9:30-10:00 10:00-10:30		
November 2		Development of a Nationwide Sediment Database Using Synchrotron Radiation Development of a non-destructive analysis method for obsidian artifacts using	Radiation Research Institute)
	10:00-10:30	Development of a Nationwide Sediment Database Using Synchrotron Radiation Development of a non-destructive analysis method for obsidian artifacts using WD-XRF Improvement of thermoelectric properties of Skutterudite materials by utilization of	Radiation Research Institute) Professor Atsushi Kamei (Shimane University)
29th	10:00-10:30 10:30-11:00	Development of a Nationwide Sediment Database Using Synchrotron Radiation Development of a non-destructive analysis method for obsidian artifacts using WD-XRF Improvement of thermoelectric properties of Skutterudite materials by utilization of Synchrotron radiation	Radiation Research Institute) Professor Atsushi Kamei (Shimane University) Principal Researcher Takeshi Shimada (Proterial, Ltd.)
	10:00-10:30 10:30-11:00 11:00-11:30	Development of a Nationwide Sediment Database Using Synchrotron Radiation Development of a non-destructive analysis method for obsidian artifacts using WD-XRF Improvement of thermoelectric properties of Skutterudite materials by utilization of Synchrotron radiation Strategic Approaches for a Decarbonized Society Current Status and Significance of Corporate Efforts in Preserving Tamahagane	Radiation Research Institute) Professor Atsushi Kamei (Shimane University) Principal Researcher Takeshi Shimada (Proterial, Ltd.) (Environmental Energy Department, Matsue City)





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nt/MSRAMIsymposium.html