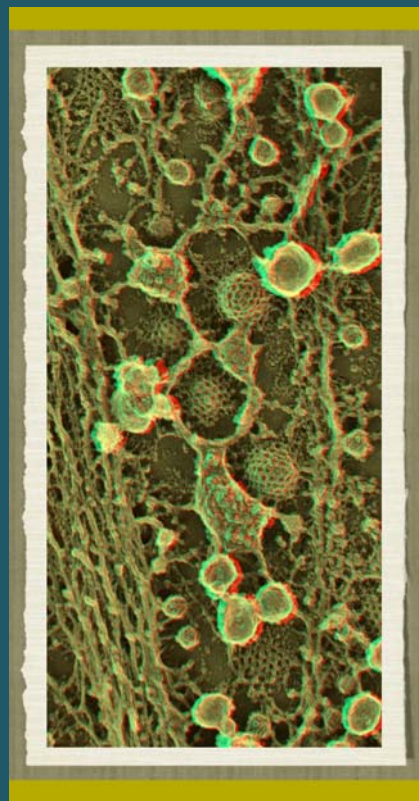


Opening International Symposium

Next-Generation Microscopic Science
Japanese Society of Microscopy

"Toward Cross-disciplinary Researches
Between Life & Material Sciences"

3-4 November 2014, Awaji Island, Japan



KEYNOTE SPEAKERS

Yuichi IKUHARA

University of Tokyo
Japan Fine Ceramics Center
Tohoku University AIMR
Kyoto University ESISSM

Shin-ichi OHNO

University of Yamanashi

John E HEUSER

Washington University
Kyoto University iCeMS

INVITED SPEAKERS

Yoshiyuki FUKUDA

Max Plank Institute of
Biochemistry

Masanori KOSHINO

Advanced Industrial Science
and Technology

Kazuhiro ABE

Nagoya University CeSPI

CONFIRMED SPEAKERS

Tomoko KAMASAKI

Hokkaido University

Norihito SAKAGUCHI

Hokkaido University

Ayumi ISHIHARA

Leica Microsystems

Masato KOIKE

Juntendo University

Yukio SATO

Kyushu University

Takeshi SATO

Hitachi High-Tech

Kei-ichi FUKUNAGA

JEOL

Toshiyuki ODA

University Tokyo

Hideto YOSHIDA

Osaka University

Hironori Ueno

Aichi University

Akihiko HIRATA

Tohoku University

Akihiro KAWAMOTO

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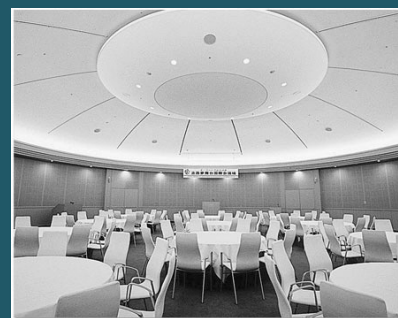
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Poster Abstract
Submission DEADLINE
17 October 2014

Registration DEADLINE
17 October 2014



<http://www.microscopy.or.jp>

**Awaji Ymebutai International Conference Center (2F Reception Hole B)
&
The Westin Awaji Island Resort & Conference Center**

DAY 1: Monday 3 NOVEMBER (in English)

Time	Speaker	Title
12:00	Registration and Poster's Set-up	
12:50	Opening Remarks	
Keynote Lecture 1 Chair: Kazuto Arakawa (Shimane University)		
13:00	Yuichi Ikuhara University of Tokyo Japan Fine Ceramics Center Tohoku University AIMR Kyoto University ESISSM	Grain boundary atomic structures, chemistry and properties in ceramics
Keynote Lecture 2 Chair: Tomoko Kamasaki (Hokkaido University)		
13:50	Shin-ichi Ohno University of Yamanashi	Morphofunctional significance of in vivo cryotechnique for living animal organs: Challenge in basic research for future application to clinical medicine
14:40	Break	
Keynote Lecture 3 Chair: Nobuhiro Morone (Kyoto University)		
14:50	John E. Heuser Washington University in St. Louis Kyoto University iCeMS, Kyoto Japan	Future challenges and opportunities in biological electron microscopy
15:40	Break	
Invited Lectures Chair: Toshiyuki Oda (University of Tokyo)		
15:50	Yoshiyuki Fukuda Max Plank Institute of Biochemistry	Application of Volta phase plate to cryo electron tomography
16:20	Masanori Koshino Advanced Industrial Science and Technology	Molecular and atomic level analyses of nano carbon materials by HRTEM & STEM-EELS
16:50	Kazuhiro Abe Nagoya University CeSPI	Electron crystallographic studies of gastric proton pump
17:20	Break & Hotel check-in	
17:45	Poster session	
19:00	Conference party	
20:45	Poster awards announcement	
21:00	Close	

DAY 2: Tuesday 4 November (in Japanese)

Time	Speaker	Title
7:00	Breakfast (@Westin)	
Session 1 Chair: Yoshiyuki Fukuda (Max Plank Institute)		
08:30	Tomoko Kamasaki Hokkaido University	Formation and function of the mitotic apparatus revealed by ultrastructural analysis
09:00	Norihito Sakaguchi Hokkaido University	Measurement of dielectric function of metal oxide by TEM-EELS
09:30	Ayumi Ishihara Leica Microsystems	Introduction of our latest CLEM systems
10:00	Break	
Session 2 Chair: Masanori Koshino (Advanced Industrial Science & Technology)		
10:10	Masato Koike Juntendo University	My "practical" EM studies in medical schools. Why not?
10:40	Yukio Sato Kyushu University	Microscopic origin of function in electrics
11:10	Kei-ichi Fukunaga JEOL	Features and applications of high throughput EDS analysis by using dual SDD
11:40	Takeshi Sato Hitachi High-tech	Simultaneous <i>in situ</i> SEM/STEM observation of catalyst reaction under an air atmosphere
12:10	Break & Lunch	
Session 3 Chair: Kazuhiro Abe (Nagoya University)		
13:00	Toshiyuki Oda University of Tokyo	Discovery of a molecular ruler in eukaryotic cilia/flagella
13:30	Hideto Yoshida Osaka University	Applications of environmental transmission electron microscopy in materials science
14:00	Hironori Ueno Aichi University of Education	Structural studies of respiratory cilia and sperm flagella by cryo-electron tomography
14:30	Break	
Session 4 Chair: Tomoko Kamasaki (Hokkaido University)		
14:40	Akihiko Hirata Tohoku University	Local structural analysis of metallic glasses using Angstrom-beam electron diffraction
15:10	Akihiro Kawamoto Osaka University	<i>In situ</i> structures of <i>Salmonella</i> injectisome and flagellar type III secretion systems
15:40	TBA	
16:10	Masamichi Ashihara FEI	A new era for 3D structural analysis of protein complexes: Cryo-TEM combines with XRD and NMR
16:40	Closing Remarks	

DAY 2: Tuesday 4 November (in Japanese/日本語)

Time	Speaker	Title
7:00	朝食 (@Westin)	
Session 1 座長：福田 善之 (マックスプランク研究所)		
08:30	釜崎 とも子 北海道大学大学院 農学研究院	細胞分裂装置の形成・機能に関する超微構造学的解析
09:00	坂口 紀史 北海道大学大学院工学研究院	TEM-EELS による酸化物誘電関数の測定
09:30	石原あゆみ ライカマイクロシステムズ	これまでの CLEM 法への取り組みと最新情報のご紹介
10:00	休憩	
Session 2 座長：越野 雅至 (産業技術総合研究所)		
10:10	小池 正人 順天堂大学医学研究科	"Practical"ですが、何か?—医学部における電子顕微鏡—
10:40	佐藤 幸生 九州大学	電子材料における機能の微視的な起源
11:10	福永 啓一 日本電子 EMBU EM アプリ	Dual SDDを用いた高速EDS分析の特長と応用
11:40	佐藤岳志 (株)日立ハイテクノロジーズ	空気雰囲気下における Pt/C 触媒の SEM/STEM 同時その場観察
12:10	休憩&昼食	
Session 3 座長：阿部 一啓 (名古屋大学)		
13:00	小田 賢幸 東京大学大学院 医学研究科	繊毛で働く分子定規の発見
13:30	吉田 秀人 大阪大学	環境制御型透過電子顕微鏡法の材料科学への応用
14:00	上野 裕則 愛知教育大学	クライオ電子線トモグラフィー法による気管繊毛・精子鞭毛の3次元構造解析
14:30	Break	
Session 4 座長：釜崎 とも子 (北海道大学)		
14:40	平田 秋彦 東北大学	オンゲストロームビーム電子回折による金属ガラスの局所構造解析
15:10	川本 晃大 大阪大学大学院 生命機能研究科	サルモネラニードル複合体およびべん毛III型分泌装置の細胞内機能構造
15:40	TBA	
16:10	葦原 雅道 日本エフイー・アイ株式会社	クライオ電子顕微鏡法の新展開 ~X線結晶構造解析とNMR法との融合~
16:40	Closing Remarks	