The 2nd East-Asia Microscopy Conference

"New Microscopy from East-Asia"

--- Contribution to Future Science ---

24 – 27 November 2015 Himeji, JAPAN

ABSTRACTS

Japanese Society of Microscopy
Chinese Electron Microscopy Society
Korean Society of Microscopy
Microscopy Society of Taiwan

Preface

Microscopy is definitely one of key techniques and growing its important role in science and technology. Particularly, in East-Asia region, the rapid development in industries has been closely linking with the advancement of pure and applied sciences related to microscopy. Therefore, it is timely important to organize a forum for the exchange of scientific and technological information on the development and applications of advanced and emerging techniques of microscopy with regard to life and materials sciences. The four microscopy societies of Japan, China, Korea and Taiwan have decided to hold the East-Asia Microscopy Conference (EAMC) under the auspice of the Committee of Asia-Pacific Societies for Microscopy (CAPSM), a member of the International Federation of Societies for Microscopy (IFSM). The first meeting of the EAMC1 was held in Chongqing, China on 15 – 18 October 2013. Based on the successful results of the EAMC1, the 2nd East-Asia Microscopy Conference (EAMC2) is held in Himeji, Hyogo, Japan on 24 – 27 November 2015.

Following the tradition, the EAMC2 has a combination of lectures and posters. It covers most aspects of advanced development in the techniques of microscopy and their applications to life and materials sciences. Particular emphasis is placed on the four plenary lectures by the world leading experts from Japan, China, Korea and Taiwan, and the poster presentations by the selected young scientists. The sessions include as follows.

- Session P Plenary Lectures
- Session A Advanced Development in Instrumentation
- Session B1-1 Advanced Techniques (TEM/STEM)
- Session B1-2 In-Situ (TEM/STEM)
- Session B1-3 SEM (includes FIB/SEM)
- Session B1-4 X-ray Microscopy
- Session B2-1 Nano-materials
- Session B2-2 Structural Materials
- Session B2-3 Functional Materials
- Session C1 Histology and Cell Biology
- Session C2 Biology of Plants and Microorganisms
- Session C3 3-dimmensional Electron Microscopy
- Session C4 Super-resolved Fluorescence Microscopy
- Session C5 Molecular Labeling
- Session C6 Connectmics
- Poster Session

More than 139 lectures and 136 posters were submitted to the scientific sessions of EAMC2, and over 300 people attended the conference.

On behalf of the Organizing Committee of EAMC2, we would like to express our deep appreciation to the enormous efforts made by the Japanese Society of Microscopy (JSM), Chinese Electron Microscopy Society (CEMS), Korean Society of Microscopy (KSM) and Microscopy Society of Taiwan (MST). We also acknowledge gratefully the support for the exhibition of microscope manufacture companies such as JEOL, Hitachi, FEI, and so many others from the world. Finally, we would also express our thanks all of participants and cooperative organizations in Himeji. It would be difficult to make the EAMC2 fruitful without the active participation of those who concerned.

Kazuo Furuya
Chair of EAMC2
Syo Matsumura
Chair of Scientific Program (Materials Science)
Atsuo Miyazawa
Chair of Scientific Program (Life Science)

MICROSCOPY
Previously Journal of Electron Microscopy

volume 64 • 2015 • number S1

contents

●=Invited

PLENARY LECTURE

ORAL SESSION

A: Advanced Development in Instrumentation

The Editor-in-Chief's choice is available free online at http://www.jmicro.oxfordjournals.org
Please visit the journal's world wide web site at http://www.jmicro.oxfordjournals.org
Microscopy is fully covered in the BECI (Biomedical Engineering Citation Index), ISL, Philadelphia, Pa, USA.

B1-1: Advanced Techniques (TEM/STEM)

B1-2: In-Situ (TEM/STEM)

B1-3: SEM (includes FIB/SEM)

B1-4: X-ray Microscopy

B2-1: Nano-materials

B2-2: Structural Materials

B2-3: Functional Materials

C1: Histology and Cell Biology

C2: Biology of Plants and Microorganisms

C3: 3-dimensional Electron Microscopy

C4: Super-resolved Fluorescence Microscopy

C5: Molecular Labeling

C6: Connectmics

POSTER SESSION

PB1-1: Advanced Techniques (TEM/STEM)

PB1-2: In-Situ (TEM/STEM)

PB1-3: SEM (includes FIB/SEM)

PB2-1: Nano-materials

PB2-2: Structural Materials

PB2-3: Functional Materials

PC1: Molecular Biology

PC2: Cell Biology (Animal)

PC3: Cell Biology (Plant and Microorganism)

PC4: Histology (Animal)

PC5: Histology (Plant and Microorganism)

PC6: Methods, Techniques, and Others