News

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Microscopy Community News

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Introductory notes

In this inaugural issue, we are pleased to introduce a new section dedicated to news from the microscopy community. This section is designed to foster a closer connection within the microscopy community by providing valuable updates and insights. While it is not intended to be daily news coverage, given our quarterly publication schedule, it will serve as a platform for sharing significant developments and events. Expect to find previews and reviews of major conferences, announcements of upcoming workshops and symposia, and notable achievements in our field.

In particular, this section will provide a place for our partner society CAPSM to publish announcements related to their activities.

Our goal is to strengthen ties within our community and ensure that Methods in Microscopy remains a central resource for collaboration and knowledge sharing among microscopy professionals worldwide. All submissions to this section, such as event announcements, obituaries, or other community related news, should be sent to editor@methods-micrscopy.org.

CAPSM: Committee of Asia Pacific Societies for Microscopy

Preamble

The Committee of Asia Pacific Societies for Microscopy (CAPSM) is dedicated to advancing the field of microscopy across the Asia-Pacific region. By fostering collaboration and innovation, CAPSM aims to push the boundaries of scientific imaging and microanalysis. Our mission is to create a platform where scientists, researchers, and industry leaders can come together to share knowledge, develop new techniques, and drive technological advancements. Through our conferences, symposia, and workshops, we strive to build a vibrant, interconnected community that addresses both current and future scientific challenges. Join us as we embark on this journey to elevate microscopy and microanalysis and its applications in physical, material, and life sciences to the benefit of society.

History

The Committee of Asia-Pacific Societies for Microscopy (CAPSM) was established to promote the development and application of electron microscopy across the Asia-Pacific region and is now composed of 17 members states.

The origins of CAPSM trace back to the 3rd International Congress on Electron Microscopy (ICEM) in 1954, London, where the International Federation of Societies for Electron Microscopy (IFSEM) was founded. IFSEM initiated regional conferences in Europe (EUREM), Asia, and Oceania (AORC).

Key milestones include:

- 1956: First AORC in Tokyo, Japan.
- 1965: Second AORC in Calcutta, India.
- 1984: AORC was rebranded as the Asia-Pacific Conference on Electron Microscopy (APEM) and restarted in Singapore.
- 2012: APEM was renamed to the ***Asia Pacific Microscopy Conference (APMC) to encompass broader microscopy techniques.***

Conference Locations:

- 1956: Tokyo, Japan (AORC 1)
- 1965: Calcutta, India (AORC 2)
- 1984: Singapore (APEM 3)
- 1988: Bangkok, Thailand (APEM 4)
- 1992: Beijing, China (APEM 5)
- 1996: Hong Kong (APEM 6)
- 2000: Singapore (APEM 7)
- 2004: Kanazawa, Japan (APEM 8)
- 2008: Jeju, South Korea (APEM 9)
- 2012: Perth, Australia (APMC 10)
- 2016: Phuket, Thailand (APMC 11)
- 2020: Hyderabad, India (APMC 12)
- 2025: Brisbane, Australia (APMC 13)

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Founding and Leadership

CAPSM was officially founded during the third APEM in Singapore in 1984. The first President was Prof. H. Hashimoto. Subsequent presidents have included:

- Prof. Kehsin Kuo (1993–96)
- Prof. David Ryans (1997–2000)
- Prof. Makoto Shiojiri (2000–04)
- Prof. Mary Mah-Lee Ng (2004–2012)
- Prof. Zhang Ze (2013–2020)
- Prof. Syo Matsumura (2021-present)

CAPSM comprises of the following 17 member states and their microscopy societies: Australia; Canada; China; India: Japan; South Korea; New Zealand; Singapore; Taiwan; Thailand; USA; Malaysia; Vietnam; Indonesia; Myanmar; Philippines; Pakistan

Current Executive Board (2021–2024)

- **President**: Syo Matsumura (Japan)
- **Vice President**: Zhang Ze (China)
- **Secretary**: Eric Hanssen (Australia)
- **Treasurer**: Zonghoon Lee (South Korea)
- **Executive Committee Members**: P. V. Satyam (India), Toru Hara (Japan)
- **Chair Person APMC12**: Partha Ghosal (India)
- **Chair Person APMC13**: Roger Wepf (Australia)

Contact:

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The APMC13-2025 Brisbane is now open for submission and registration. Conference Website: www.apmc13-2025.org Abstract submission: www.apmc13-2025.org/abstract-1

Preview: The 13th Asia Pacific Microscopy Congress 2025 (APMC13)

Brisbane, Australia, February 2–7, 2025

Embedded in Asian and Australian Indigenous culture and tradition, and hosted by the Australian Microscopy and Microanalysis Society (AMMS), the Committee of Asia Pacific Societies for Microscopy (CAPSM) will present the 13th Asia Pacific Microscopy Congress (APMC13) to establish a balanced program of light, ion, and electron microscopy and imaging spectroscopy in physical, material, and life sciences. Microscopists, scientists, manufacturers, and suppliers will come together to share new instrumentations, techniques, workflows, applications, and technologies.

In addition to celebrating indigenous cultures and embracing scientific advancements, APMC13 specializes in recognizing and harnessing the scientific community's excellent analytical capabilities and technology developments. These analytical skills are urgently needed to drive the development and implementation of green technologies in the current 6th green industry wave and transition to a more sustainable economy.

Through cutting-edge research and innovative methodologies, our scientific experts have the power to unlock the potential of sustainable solutions. By leveraging their analytical abilities, we can overcome challenges, optimize processes, create new materials, and accelerate the integration of greener technologies into our societies.

During the conference, we will delve into insightful discussions on the latest advancements in analytical tools and methodologies tailored to support the transition to a cyclic green (bio-) economy. We will explore how data-driven approaches can inform decision-making, refine green technologies, and create a more efficient, livable, and eco-friendly future.

By combining the strengths of indigenous knowledge and care for the country, scientific expertise, and analytical capabilities, we can forge a powerful alliance to tackle global environmental issues beyond political and economic challenges and create a world where communities build connections, communicate, and help to create a sustainable future between humanity and nature.

Join us at this Asia Pacific Microscopy gathering to connect, communicate, cooperate, create, and change how we do things towards a convergence of natural processes, cultural heritage, scientific inquiry, and analytical brilliance to pursue a sustainable cyclic green (bio) economy. Together, we can unlock a greener, more prosperous future for generations to come.

We eagerly await your participation and the contributions of your exceptional analytical and imaging capabilities!

The abstract submission for FOM 2025 starts in October 2024 at www.focusonmicroscopy.org.

Preview: FOCUS ON MICROSCOPY 2025

Taipei, Taiwan, April 13–16, 2025

It is a great pleasure to announce FOM2025, the next in a series of unique interdisciplinary meetings on advanced and multi-dimensional light microscopy and image processing. The conference will take place from Sunday, April 13, to Wednesday, April 16, 2025, during the week before Easter.

FOM2025 continues a long-standing (since 1988) yearly conference series on the latest innovations and developments in (optical) microscopy and its applications in biology, medicine, and the material sciences.

FOM2025 will be hosted at the National Taiwan University Hospital Conference Center (NTUHCC) www.nthcc.com.tw/?lang=en, centrally located in Taipei and near major landmarks. Taipei is recognized as an exceptionally safe city and celebrated for its rich cultural heritage, vibrant night markets, and breathtaking natural scenery.

FOM Taipei will start on Sunday morning, April 13, with tutorials, followed by parallel sessions, Flash poster presentations and a plenary opening session with invited speakers at the end of the afternoon. The first day will be closed with

a welcome reception. A technical exhibition will also be part of the conference.

All details concerning registration, abstract submission, and deadlines are or will be available on the conference website: www.FocusOnMicroscopy.org.

A wide range of microscopy and related subjects will be addressed, ranging from the physics of microscopy to advanced applications. Topics of the upcoming FOM conference include:

- Theory and practice of confocal and multiphoton-excitation microscopy
- Instrumentation and microscope design
- Super-resolution microscopy
- 3D and 4D live cell and imaging
- Adaptive optics for microscopy
- Light sheet microscopy
- Phase/interference-based microscopies
- OCT, holography, endoscopy
- Advanced fluorescence imaging/spectroscopy: FRET, FRAP, FLIM, FCS, SOFI
- New fluorescent probes, proteins, quantum dots, single-molecule imaging
- Clearing and expansion techniques
- Coherent non-linear microscopies: SHG, THG, SFG, CARS
- Multi-dimensional fluorescence and Raman spectroscopy imaging
- Correlated microscopies, e.g., light/electron
- Laser manipulation and tracking, photo-activation
- Fast acquisition, automated and high-content microscopy
- 3D image processing and visualization for multidimensional data

For information on the program schedule, conference venue, and background on the present and previous FOM conferences, please visit the conference website: www.FocusOnMicroscopy.org

Welcoming you to Taipei for the FOM2025 conference and exhibition, the organizers:

Fu-Jen Kao, National Yang Ming Chiao Tung University, Taiwan

Hans Gerritsen, University of Utrecht, The Netherlands

Fred Brakenhoff, Honorary member

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