
SCOPE OF THE WORKSHOP

The primary aim of EMAS Workshops is to assess the state of the art and reliability of microbeam analysis techniques.

Our Workshops are organised in such a way as to maximise transfer of knowledge among the participants and to provide a comprehensive exhibition of the latest analytical equipment. The programme allows for adequate time and opportunities for participants to visit the technical exhibitions and hold discussions with manufacturers.

SCIENTIFIC PROGRAMME

The programme consists of invited plenary lectures, poster presentations, round-table discussions on topics of the invited lectures, working groups, and short courses, all led by experts in the field.

The main topics to be dealt with during the workshop will notably include:

- **Electron backscatter diffraction (EBSD):** combined micromechanics with EBSD and TEM; strain and stress mapping; applications to geological samples; resolving overlapping patterns; etc.
- **Correlative techniques:** Combined SEM-EDS and SIMS analysis; diffusion chronometry with EBSD+EPMA/EDS+LA-ICP-MS; Raman in SEM; combined TEM+SEM; etc.
- **EDS and EELS in TEM:** EDD in TEM; EELS and EDS; etc.
- **Software for microbeam analysis:** XMapTools for analysis of EPMA, LA-ICP-MS and other data; software for stage calibration on multiple instruments; etc.
- **Electron probe microanalysis (EPMA):** Optimisation of SEM / EPMA column; improvements in EPMA data acquisition and processing; SXES EPMA analysis of meteorites and halogens; microanalytical reference materials; etc.
- **Applications:** material science, geological science, environmental studies, microelectronics, forensics, cultural heritage and archaeology, nanomaterials, surfaces and interfaces, catalysts, sensors.

POSTER PRESENTATION

All those intending to participate in the Workshop are encouraged to submit an abstract for a poster contribution. Deadline for abstract submission is February 15, 2027. Details of the format of the abstracts will be given in the *Final Announcement*.

PUBLICATION

The text of the invited lectures and the abstracts of the poster presentations will be published in the *Book of Tutorials and Abstracts* of the Workshop.

The full papers of accepted poster contributions will be published in a proceedings volume, along with contributions from invited lecturers, subject to formal review by referees selected by the International Scientific Committee.

WORKSHOP LANGUAGE

The official language of the Workshop will be English.

EXHIBITION

Ample space, immediately adjacent to the lecture and poster rooms, will be available for the exhibition of equipment, leaflets and books. Interested companies should contact the Workshop Secretariat.

SOCIAL EVENTS

These include the Sunday informal get-together and the Wednesday evening workshop dinner.

FURTHER DETAILS

Please consult the webpage dedicated to the EMAS 2027 Workshop on the EMAS website at:

www.microbeamanalysis.eu

Please put my name on your mailing list and send me a copy of the final announcement and registration form for the workshop:

"Modern Developments and Applications in Microbeam Analysis"

to be held 6-10 June 2027 in Lausanne, Switzerland.

Surname:

First Name:

Title:

Company/Institute:

Department/Division:

Street:

ZIP code: City

Country:

Telephone: Telefax:

E-mail:

I intend to submit a poster: ☐ No - ☐ Yes with the following title(s), or on the following topic(s):

.....

.....

Apart from the topics mentioned, I have a strong interest in the following one(s):

.....

.....

☐ Please send this first announcement also to:

Name:

Address:

ZIP code: City:

Country:

Date: Signature:



EMAS Workshop Secretariat
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Campus Groenenborger,
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BELGIUM

GENERAL INFORMATION

The *Final Announcement* will be distributed in September 2026 to those returning the attached form.

A substantial reduction of the registration fee will apply to all students. Moreover, a number of EMAS Bursaries will be available for bona-fide students, early career scientists and technicians. Details will be given in the final announcement.

WORKSHOP SECRETARIAT

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INTERNATIONAL SCIENTIFIC COMMITTEE

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Martin Robyr	Switzerland
Bjørn Eske Sørensen	Norway
Sander Stoks	The Netherlands
Maria Wątroba	Switzerland

* Chairperson of the International Scientific Committee

FIRST ANNOUNCEMENT



EMAS 2027

19th European Workshop

on

MODERN DEVELOPMENTS AND APPLICATIONS IN MICROBEAM ANALYSIS

6 to 10 June 2027

at the

**Anthropole Bldg., University of Lausanne
Lausanne, Switzerland**

Organised in collaboration with the
University of Lausanne, Switzerland