
SCOPE OF THE WORKSHOP

The primary aim of this combined EMAS Workshop / IUMAS Meeting is to assess the state of the art and reliability of microbeam analysis techniques. EMAS was founded in 1987 to meet the growing demands of microanalysis users and scientists across Europe for further education, communication and professional advice. IUMAS was founded in 1994 to promote world-wide cooperation in all aspects of microbeam analysis through the organisation of an international meeting on microbeam analysis every three or four years, and by participating in joint committees with other scientific organisations in matters relevant to microbeam analysis which are better discussed on a world scale.

The format of the meeting is aimed at maximising transfer of knowledge among the participants and at providing 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 the manufacturers.

POSTER PRESENTATION

All those intending to participate in the Workshop are encouraged to submit an abstract for a poster contribution. Selected poster abstracts will be given the opportunity to give short (5 minute) oral presentations of their poster. Deadline for online abstract submission is November 15, 2016. Details of the format of the abstract are given on the event webpage.

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.

Moreover, in addition to the invited lectures, the full papers of accepted poster contributions will be published in a proceedings volume, subject to formal review by referees selected by the International Scientific Committee.

SCIENTIFIC PROGRAMME

The programme will consist of invited plenary lectures delivered by worldwide experts, young scientist session, poster sessions and oral poster presentations, and round-table discussions at the end of each session, as well as a series of ½-day short courses on the Sunday preceding the workshop/meeting.

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

- **Pushing the limits - EPMA:** *low-voltage X-ray microanalysis, applications of soft X-ray microanalysis, trace element microanalysis, detection limits, thin film microanalysis;*
- **Modelling:** *overview of modelling tools; DFT;*
- **Detector technologies:** *direct electron detectors; newest developments in wavelength-dispersive and energy-dispersive X-ray spectrometry;*
- **Surface characterisation:** *nanosurface characterisation using nano-IR and nano-Raman; nanoSIMS;*
- **Cathodoluminescence:** *cathodoluminescence microanalysis; in-SEM cathodoluminescence analysis;*
- **Pushing the limits - general:** *scanning transmission electron microscopy (STEM); quantitative electron energy-loss spectroscopy (EELS); high-angular resolution electron backscatter diffraction (EBSD); integration of atom probe and electron backscatter diffraction;*
- **Applications:** *material science, geological science, environmental studies, astrophysics, microelectronics, forensics, cultural heritage and archaeology, nanomaterials, surfaces and interfaces, catalysts, sensors, ...*

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.

VENUE

As pretty as a picture, Lake Constance lies in a lovely landscape of hills and mountains between Germany, Switzerland, and Austria. The area is rich in history and important cultural monuments from every period.

In the most beautiful part of the lake, where it drains into the Rhine, there was an old Roman fort, which later became the mediaeval town of Konstanz. The central part of this town, directly adjoining the shore, still survives today.

The old episcopal town is dominated by the impressive structure of the “Münster” (Our Lady Cathedral). The oldest part, the crypt, dates back to the 9th century, with the main Romanesque building dating from the mid-11th century. Gothic side chapels and nave vaulting were added in the 15th century. The cathedral was the location of the ecclesiastical council, held in Konstanz from 1414 to 1418. Another important building is the “Konzilgebäude”, erected in 1388, at the harbour side, as a granary and warehouse, later becoming the site of the linen trade fair. Nowadays it functions as a conference and exhibition centre.

Nearby is “Niederburg”, the oldest part of town, with its crooked alleys, alcoves, colourful gables, and many wine taverns. Here can be found palatial mansions and houses of worthy well-to-do citizens.

Local excursions can take you to the Isle of Mainau with its tropical plants and age-old trees. Another attractive place is Meersburg, across the lake, with its castle, palace, and cosy old town centre.

FURTHER DETAILS

Please consult the webpages dedicated to the EMAS 2017 Workshop / IUMAS-7 Meeting on:

www.microbeamanalysis.eu
www.iumas.org

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

EMAS 2017 / IUMAS-7 Modern Developments and Applications in Microbeam Analysis

to be held 7-11 May 2017 in Konstanz, Germany.

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, or on the following topic:

.....

.....

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

.....

.....

Please send this first announcement also to:

Name:

Address:

ZIP code: City:

Country:

E-mail:

Date: Signature:

IUMIAS



EMAS 2017 Workshop Secretariat
c/o University of Antwerp
Department of Chemistry - Research group PLASMANT
Campus Drie Eiken - Universiteitsplein 1
2610 Antwerpen-Wilrijk
BELGIUM

GENERAL INFORMATION

The Final Announcement will be distributed in September 2016 to those returning the attached form.

A substantial reduction of the registration fee will apply to all students. Moreover, a number of Early Career Scholarships will be available for bona-fide students, young scientists and technicians (under 30 years of age). Details will be given in the final announcement.

WORKSHOP SECRETARIAT

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INTERNATIONAL SCIENTIFIC COMMITTEE

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* Chairpersons of the International Scientific Committee

** Chairpersons of the Local Organising Committee

IUMIAS 2017

The Seventh Meeting of the International Union of Microbeam Analysis Societies

www.microbeamanalysis.eu
www.iumas-7.org

FIRST ANNOUNCEMENT



European Microbeam Analysis Society

EMAS 2017

15th European Workshop
on

MODERN DEVELOPMENTS AND APPLICATIONS IN MICROBEAM ANALYSIS

7 to 11 May 2017

in
Konzilgebäude
Konstanz, Germany

Organised in collaboration with the
Microprobe Division of the
German Physical Society (DPG)