



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

GENERAL INFORMATION

The *Final Announcement* will be distributed in September 2022 to those returning the attached form.

A substantial reduction of the registration fee will apply to all students. Moreover, a number of EMAS Grants 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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Grzegorz Tylko	<i>Poland</i>
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* Chairperson of the International Scientific Committee

FIRST ANNOUNCEMENT



EMAS 2023

17th European Workshop
on

MODERN DEVELOPMENTS AND APPLICATIONS IN MICROBEAM ANALYSIS

7 to 11 May 2023

at the
Jagiellonian University
Auditorium Maximum, Krakow, Poland

Under the auspices of the Rector of the Jagiellonian University, Krakow, Poland
Organized in collaboration with the Institute of Metallurgy and Materials Science of the Polish Academy of Sciences, Krakow, Poland

SCOPE OF THE WORKSHOP

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

The 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 the manufacturers.

SCIENTIFIC PROGRAMME

The programme will consist of invited plenary lectures, poster presentations and round-table discussions on topics of the invited lectures, led by experts in the field.

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

- **Electron probe microanalysis (EPMA):** analysis of coatings; thin film analysis; mass absorption coefficients; carbon analysis at the sub-micrometre scale;
- **Electron backscatter diffraction (EBSD) and related techniques:** residual stress analysis, in situ EBSD experiments; transmission Kikuchi diffraction; EBSD versus Kossel diffraction;
- **Software tools:** HyperSpy, deep learning for EDS spectra;
- **Focussed ion beam:** ion sources for use in FIB; milling of beam-sensitive materials;
- **Combined techniques in SEM:** STEM and EELS; ToF-SIMS, FIB and AFM; combined Raman and EDS; cathodoluminescence;
- **Applications:** material science, geological science, environmental studies, astrophysics, 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 November 15, 2022. 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.

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.

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

Include a Sunday informal get-together and Wednesday evening workshop dinner.

FURTHER DETAILS

Please consult the webpage dedicated to the EMAS 2023 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 7-11 May 2023 in Krakow, Poland.

Surname _____
First Name _____
Title _____
Company/Institute _____
Department/Division _____
Street _____
ZIP code _____ City _____
Country _____
Telephone _____ Telefax _____
E-mail _____

I intend to submit a poster: - 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 _____
