

FINAL ANNOUNCEMENT



European Microbeam Analysis Society

Unil.

EMAS 2027

19th

EUROPEAN WORKSHOP

on

**MODERN DEVELOPMENTS
AND
APPLICATIONS
IN
MICROBEAM ANALYSIS**

6 to 10 June 2027

at the

Anthropole building

University of Lausanne, Switzerland

Organised in collaboration with the
Université de Lausanne, Switzerland

Scope of the workshop series

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 includes time and opportunities for participants to visit the technical exhibitions and interact with the manufacturers.

Previous Workshops in this series were held in Antwerp (1989), Dubrovnik (1991), Rimini (1993), St. Malo (1995), Torquay (1997), Konstanz (1999), Tampere (2001), Chiclana de la Frontera (2003), Florence (2005), Antwerp (2007), Gdansk (2009), Angers (2011), Porto (2013), Portorož (2015), Konstanz (2017), Trondheim (2019), Krakow (2023), and Mataró (2025). They included sessions covering electron (EPMA, EBSD, TEM, SEM, Auger, EELS), ion (SIMS, FIB), and nuclear (RBS, NRA) microbeam methods.

The main topics of the Nineteenth Workshop (EMAS 2027) are: Electron probe microanalysis (EPMA); Electron backscatter diffraction (EBSD); Correlative techniques; EDD, EDS and EELS in TEM; and Software for microbeam analysis. Time will also be devoted to problem orientated applications in material science, geological science, environmental studies, astrophysics, microelectronics, forensics, cultural heritage and archaeology, nanomaterials, surfaces and interfaces, catalysts, sensors, ...

Round-table discussions

Our round-table discussions are panel discussions taking place at the end of each scientific session on a main topic. They are moderated by a leading expert, assisted by the invited speakers of the corresponding session.

The idea is to stimulate the exchange of information and experience among the participants on several important problems in microbeam techniques. Such activities need careful preparation, both regarding structure and subjects. Therefore, we would kindly request you to complete the discussion questionnaire on the on-line registration page. If you have specific questions, these can also be mentioned in 'Other suggestions' on the questionnaire.

Brief presentations or contributions to the round-table discussions are encouraged (please contact the round-table chairperson at the beginning of the Workshop).

Early Career Scientists' session

One session is dedicated to giving Early Career Scientists (ECS) the opportunity to present their work in a 15-minute oral presentation (including 3 minutes for discussion). Eligibility criteria for ECS status can be found on the [‘EMAS Bursaries and Grants’](#) subpage of the EMAS website. There will be up to six such presentations selected from the submitted abstracts.

The best contribution and presentation will be awarded the *EMAS Early Career Scientist Award*, encompassing a certificate and an invitation from the Microanalysis Society of America (MAS) to present their work at the Microscopy and Microanalysis 2028 Meeting to be held in Seattle, Washington (the invitation will include a free conference registration and financial support from MAS and EMAS for travel and living expenses).

Early Career Scientists wishing to be considered for this session should have submitted an abstract and have to send a written application to the Workshop Secretariat, reaching it before **15 November 2026**, and should be member of EMAS. Applicants will be notified of the allocation of an Early Career Scientists' session slot by **15 January 2027**. Applicants for an EMAS Bursary are also eligible to apply.

Posters

Poster contributions are welcome on subjects within the scope of the workshop (see Scope). The abstracts will be refereed by the International Scientific Committee and will be published, together with the text of the invited lectures, in the *Book of Tutorials and Abstracts* of the Workshop.

There will be three *Oral Poster Sessions* in which selected authors will be given 5 minutes to present the highlights of their poster using two or three powerpoint slides. Those authors selected will be notified some weeks prior to the workshop.

Authors have the opportunity to discuss their posters during the three poster sessions. Posters will be on display during the whole Workshop. Size of the display area: 1.80 m high by 1.20 m wide.

Two awards will be given: a) an EMAS Award for the best poster by an Early Career Scientist encompassing a certificate and an invitation from AMAS - Australian Microbeam Analysis Society to present their work at a microbeam event in 2028 in Australia (the invitation will include a free conference registration and financial support from AMAS and EMAS for travel and living expenses), and b) an EMAS Workshop Poster Award encompassing a certificate and a cash prize of € 500.

Abstracts

Abstracts to be presented during the workshop should fit **two A4 pages** using the Word-template available on the EMAS website at <https://www.microbeamanalysis.eu>. Detailed guidelines are mentioned on the template. Online submission details are given on the workshop webpage.

The abstract has to be submitted before **15 February 2027**. Authors will be notified of the acceptance of their poster by **15 March 2027**.

Publication

Authors of accepted contributions are encouraged to submit a manuscript for publication in the workshop's proceedings volume, to be published in EPJ Web of conferences, an international, peer-reviewed, open-access and SCOPUS-listed, journal.

All submitted papers will be peer-reviewed. Owing to limitations imposed by the publisher, the editors will apply a stringent selection procedure based on quality, diversity, and adherence to the manuscript preparation rules. Manuscripts will have to be submitted in the format outlined by the publisher to their online manuscript submission system.

Workshop language

The official language of the Workshop will be English.

Exhibition

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

Key dates

- * 15 November 2026** Submission of abstracts for poster presentations by EMAS Bursary applicants
Closing date for Early Career Scientists' session applications
Closing date for EMAS Bursary applications
 - * 15 January 2027** Notification of Early Career Scientists' session allocations
Notification of EMAS Bursary allocations
 - * 15 February 2027** Submission of abstracts for poster presentations
 - * 15 March 2027** Notification of acceptance of poster contribution
 - * 1 April 2027** Early registration deadline
Hotel accommodation deadline
 - * 5 June 2027** Working group meeting 'EPMA optimisation in irradiated and nuclear material analysis' (afternoon)
 - * 6 June 2025** 3 short courses (morning) on 'EBSD', 'EPMA', and 'XMapTools'
1 short course (afternoon) on 'Monte Carlo simulation'
Working group 'Reference materials, Facility management, and EPMA maintenance' (afternoon)
Start of the EMAS 2027 Workshop
 - * 10 June 2025** End of the Workshop
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EMAS Bursaries

A number of EMAS Bursaries are available to:

- i) Early Career Scientist (ECS): They include a free student registration and free accommodation package for the duration of the EMAS Workshop (in a shared twin room) in a hotel assigned by the Workshop. The conditions for the award of an EMAS ECS Bursary are as follows:
 - the applicant must submit an abstract for a poster contribution;
 - the applicant must be an ECS and a member of EMAS;
 - a letter from the applicant's project supervisor or principal investigator supporting the application must accompany the abstract.
- ii) Early Career Technician (ECT): They include a free student registration and free accommodation package for the duration of the EMAS Workshop (in a shared twin room) in a hotel assigned by the Workshop. The conditions for the award of an EMAS ECT Bursary are as follows:
 - the applicant must submit an abstract for a poster contribution;
 - the applicant must be an ECT and a member of EMAS;
 - a letter from the applicant's line manager supporting the application must accompany the abstract.

(Eligibility criteria for ECS and ECT status can be found on the '[EMAS Bursaries and Grants](#)' subpage of the EMAS website).

The quality and relevance of the work presented in the abstract are the main criteria on which successful applications will be judged. A maximum of 2 bursaries per person can be awarded.

Bursary applications must be sent to the Workshop Secretariat referring to the relevant online submitted poster contribution abstract, reaching it before **15 November 2026**. Applicants will be notified of the allocation of an EMAS bursary by **15 January 2027**.

Short courses

For detailed course descriptions, see: www.microbeamanalysis.eu. Each of these is limited to 25 participants. They are open to non-workshop participants. Cost per course, covering course material and a refreshment break, is € 75.

Short course: Introduction to EBSD (morning Sunday June 6th, 2027)

A ½-day short course introducing the physical principles and practical methods of electron backscatter diffraction (EBSD). The course is aimed at students, technicians, engineers and researchers with no or limited experience of EBSD, although some familiarity with basic SEM techniques would be beneficial. Topics will include an overview of EBSD, basics of sample preparation, data analysis, EBSD of non-conductive materials, recent software advancements, and the use of dynamical simulations. The course will be interactive, with ongoing Q&A throughout, allowing participants to ask questions as they arise.

Short course: Electron probe microanalysis (morning Sunday June 6th, 2027)

This ½-day short course aims to explore and discuss novelties, challenges and opportunities of working at the limits of electron probe microanalysis (EPMA). Pending interests of the attendees, we will explore light element and low voltage analysis; analysis of trace elements; high-resolution analysis and the effects of secondary fluorescence; the use of a range of coating materials for problematic non-conducting samples. Participants should be moderately equipped with a working knowledge of EPMA, both the theory and some technical experience of the instrument, to wholly benefit from this course.

Short course: XMapTools (morning Sunday June 6th, 2027)

This ½-day short course will introduce XMapTools, a software solution for processing, analysing and interpreting chemical maps obtained using EPMA, SEM/EDS or LA-ICP-MS techniques. Participants will be guided through the entire process for EPMA data, from importing and standardising raw data, to generating quantitative chemical maps and performing supervised classification, to extracting useful petrological metrics such as modal abundances, local bulk compositions, and quantification of compositional zoning in minerals. The course will combine short lectures, live demonstrations and practical exercises using real datasets. It is intended for early- to mid-career researchers, graduate students and laboratory technicians who wish to incorporate chemical mapping into their work.

Short course: Modelling in EPMA using MC simulation and introduction to the Boltzmann transport equation (afternoon Sunday June 6th, 2027)

In electron microscopy and its analytical methods, the electron- and photon-matter interactions play a dominant role. The electrons and atoms of a sample are the reactants, and the backscattered, transmitted, secondary electrons, characteristic X-rays, and Bremsstrahlung X-rays are the products. As only the products of these interactions can be measured, Monte Carlo simulations have been developed over the years to help microscopists understand, visualize, predict and interpret results obtained from their measurements.

This ½-day short course aims to be as practical as possible, providing tutorials on how modern and freely available Monte Carlo programmes can be used to address common microanalysis problems and situations, including the reconstruction of simple geometries. Taking advantage of their respective capabilities, the course will demonstrate different programmes, including NeXL, PENELOPE, Monaco, MC X-Ray (with a new interface and a parallelized version 1000 times faster than the previous version), and PyMonteCarlo. In addition, alternative deterministic approximations of the Boltzmann transport equation will be presented, along with simple code examples. Attendees are encouraged to bring a laptop.

Working group meetings

For detailed course descriptions, see: www.microbeamanalysis.eu.

Each of these is limited to 25 participants. They are open to non-workshop participants. Cost for the 'Facility management' working group meeting is € 75, and € 100 for the 'EPMA optimisation in irradiated and nuclear material analysis' working group meeting.

Working group: EPMA optimisation in irradiated and nuclear material analysis (afternoon Saturday June 5th, 2027)

Numerous difficulties are encountered when performing EPMA analysis on irradiated and radioactive nuclear materials. These include, but are not limited to: lack of reliable standards, difficulty handling samples, complex overlaps (e.g., Kr-K α), lack of reliable $\phi(\rho Z)$ corrections, etc.

This working group will focus on EPMA analysis of nuclear and radioactive materials. The goal is to identify high priority issues that can be addressed collaboratively by session members following the meeting.

Working group: Reference materials, facility management, and EPMA maintenance (afternoon Sunday June 6th, 2027)

This working group will be the first opportunity to discuss our needs and efforts towards better reference materials and standards necessary for accurate quantitative microanalysis. This first meeting of the yet to be created European Group on Microanalytical Standards will be combined with our usual working group on facility management of a microanalytical facility, such as a scanning or analytical transmitted electron microscope or an electron microprobe laboratory (among others).

One of the primordial tasks of the lab manager is to ensure optimum working conditions for the instrument(s), and to ensure that the analysts – students or researchers – get the data they need with the excellent precision and accuracy they deserve. These instruments are expensive and need care to ensure high quality results, and the manager should be able to easily identify the problem and sometimes even fix it, and to run periodically performance and quality tests. Beside interventions from Dr Dirk Berger (leader of the IGEME: German interest group of electron microscopic facilities) and Dr Julien Allaz (former leader of FIGMAS: Focussed interest group on microanalytical standards) we hope to have active discussions on the following matters (listed as an example):

- Standards and reference materials, European FIGMAS,
- Quality controls and testing of instrument performance,
- Teaching & training for lab users and students,
- Lab organisation,
- Comparison of different research environment,
- Networking laboratories within and between houses,
- Model for seed funding for young scientists,
- Public relation, such as “core facility days”,
- etc.

As these subjects can be quite broad, participants will be encouraged to provide a list of their preferred topics they would like to see covered during this workshop a month before the meeting.

PROGRAMME

Saturday 5 June 2027

- 14.00 - 18.00 Working group: **EPMA optimisation in irradiated and nuclear material analysis.**
Philipp PÖML (European Commission, JRC Directorate G - Nuclear Safety and Security, Karlsruhe, Germany)
Karen WRIGHT (Idaho National Laboratory, Department for Advanced Characterization, Idaho Falls, ID, U.S.A.)
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PROGRAMME

Sunday 6 June 2027

- 09.00 - 13.00 Short course: **Introduction to EBSD.**
Cyril CAYRON (EPFL - Ecole Polytechnique Fédérale de Lausanne, LMTM - Thermomechanical Metallurgy Laboratory, Neuchâtel, Switzerland)
Grzegorz CIOS (AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Krakow, Poland)
- Short course: **Electron probe microanalysis.**
Julien M. ALLAZ (ETH Zürich, Department of Earth and Planetary Sciences, Zürich, Switzerland)
Iris BUISMAN (University of Cambridge, Department of Earth Sciences, Cambridge, Great Britain)
E. Alejandro CORTES-CALDERON (Natural History Museum, Imaging and Analysis Centre, London, Great Britain)
- Short course: **XMapTools.**
Pierre LANARI (University of Lausanne, Institute of Earth Sciences, Lausanne, Switzerland)
Louise MERIT (University of Lausanne, Institute of Earth Sciences, Lausanne, Switzerland)
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- 14.00 - 18.00 Short course: **Modelling in EPMA using MC simulation and introduction to the Boltzmann transport equation.**
Raynald GAUVIN (McGill University, Dept. Metals and Materials Engineering, Montréal, Québec, Canada).
Gaurav ACHUDA (R.W.T.H. Aachen, Central Facility for Electron Microscopy (GfE), Aachen, Germany)
Silvia RICHTER (R.W.T.H. Aachen, Central Facility for Electron Microscopy (GfE), Aachen, Germany)
- Working group: **Reference materials, facility management, and EPMA maintenance.**
Julien M. ALLAZ (ETH Zürich, Department of Earth and Planetary Sciences, Zürich, Switzerland)
Dirk BERGER (Technical University Berlin, Center for Electron Microscopy (ZELMI), Berlin, Germany)
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- 19.00 - 20.00 Registration
Informal welcome reception hosted by the International Scientific Committee and the Local Organising Committee
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PROGRAMME

Monday 7 June 2027

09.00	Welcome and opening address <i>Hans DIJKSTRA</i> (President of EMAS) <i>Julien M. ALLAZ</i> (EMAS 2027 Workshop chairperson) <i>To be announced later</i>
09.15	Application of EBSD, TKD and PED to Assess Deformation Mechanisms in Materials. <i>Xavier MAEDER</i> (Empa - Swiss Federal Labs. Materials Science and Technology, Lab. Mechanics of Materials and Nanostructures, Thun, Switzerland)
09.45	Microstructural evolution during nanoscratch testing. <i>Anna KAREER</i> (University of Oxford, Department of Materials, Oxford, U.K.)
10.15	Refreshment break / Exhibition visit
10.45	Presentation of new equipment and software by the exhibiting companies. Chairpersons: <i>Stefan MEYER</i> (Carl Zeiss Microscopy GmbH, Oberkochen, Germany) <i>Silvia RICHTER</i> (RWTH Aachen, Gemeinschaftslabor für Elektronenmikroskopie (GfE), Aachen, Germany)
12.15	Lunch break / Exhibition visit
13.45	Presentation by the MAS-USA President: Title to be defined. <i>Assel AITKALIYEVA</i> (University of Florida, Department of Materials Science and Engineering, Gainesville, FL, U.S.A.)
14.15	Presentation by the MAS-USA Student Award Winner: Title to be defined. <i>To be announced</i>
14.30	Oral presentations of the contributed posters: I. Chairperson: <i>To be announced later</i>
15.30	Poster session I / Refreshment break

PROGRAMME

Monday 7 June 2027 *(continued)*

16.15	EBSD Rocks! <i>Sandra PIAZOLO</i> (University of Leeds, School of Earth and Environment, Leeds, U.K.)
16.45	Resolving overlapping EBSD patterns by experiment - Simulation residuals analysis. <i>Grzegorz CIOS</i> (AGH - University of Krakow, Academic Centre for Materials and Nanotechnology, Krakow, Poland)
17.15	Round-table discussion: * Electron backscatter diffraction (EBSD). Chairpersons: <i>To be announced later</i>

PROGRAMME

Tuesday 8 June 2027

09.00	Oral presentations of the contributed posters: II. Chairperson: <i>To be announced later</i>
10.00	Poster session II / Refreshment break
10.45	Early Career Scientists' session. Chairperson: Julien M. ALLAZ (ETH Zürich, Department of Earth and Planetary Sciences, Zürich, Switzerland)
12.15	Lunch break / Exhibition visit
13.45	Presentation by AMAS President: Title to be defined. Karen L. PRIVAT (University of New South Wales, Electron Microscopy Unit, Sydney, NSW, Australia)
14.15	Presentation by the AMAS Student Award Winner: Title to be defined. <i>To be announced</i>
14.30	Correlative analysis of graphene-related 2D materials. Vasile-Dan HODOROABA (Federal Institute for Materials Research and Testing (BAM), Surface Analysis and Interfacial Chemistry, Berlin, Germany)
15.00	Cross-calibration of analytical methods for experimental studies on diffusion in silicates and oxides: Quantification of data and spatial resolution. Ralph DOHMEN (Ruhr-Universität Bochum, Institut für Geowissenschaften, Bochum, Germany)
15.30	Refreshment break / Exhibition visit
16.00	Beyond elemental analysis: Bridging two worlds through advances in Raman-SEM microscopy for correlative materials characterisation. Stephan KREISSL (WiTEC GmbH, Ulm, Germany)
16.30	Correlative operando analysis of energy materials using electron microscopy and SIMS. Santhana ESWARA (LIST - Luxembourg Institute of Science & Technology, Advanced Instrumentation for Nano-Analytics, Belvaux, Luxembourg)
17.00	Round-table discussion: * Correlative techniques. Chairpersons: <i>To be announced later</i>

PROGRAMME

Wednesday 9 June 2027

09.00	Oral presentations of the contributed posters: III. Chairperson: <i>To be announced later</i>
10.00	Poster session III / Refreshment break
10.45	Model-based matrix factorisation of TEM-EDX datacube and possible implementation in other spectroscopic methods. <i>Cécile HÉBERT</i> (EPFL, Electron Spectrometry and Microscopy Laboratory, Lausanne, Switzerland)
11.15	Analytical electron microscopy using EELS and EDS: Principles and applications. <i>Gerald KOTHLEITNER</i> (Graz University of Technology, Institute of Electron Microscopy and Nanoanalysis, Graz, Austria)
11.45	Round-table discussion: * EDD, EDS and EELS in TEM. Chairperson: <i>To be announced later</i>
12.15	Lunch break / Exhibition visit
13.45	EMAS Annual General Meeting
14.30	Refreshment break / Exhibition visit
15.00	Free software, open code, open data: 15 years of quantitative compositional mapping with XMapTools. <i>Pierre LANARI</i> (University of Lausanne, Institute of Earth Sciences, Lausanne, Switzerland)
15.30	Automation for in situ chemical analysis of geological material. <i>Ethan TONKS</i> (Imperial College, Department of Earth Science and Engineering, London, U.K.)
16.00	Round-table discussion: * Software for microbeam analysis. Chairperson: <i>To be announced later</i>
18.00 - 20.00	Possibility to visit the Musée Olympique
19.00	Aperitif and workshop dinner at the Musée Olympique, Lausanne Awards ceremony

PROGRAMME

Thursday 10 June 2027

09.00	Bastin PhD Thesis Award Winner <i>To be announced</i>
09.30	Electron beam generation and optimisation in electron-optical devices. <i>Jürgen BÖRDER</i> (J. Börder Elektronik, Melsbach, Germany)
10.00	Best practices for improving accuracy (and precision) in electron probe microanalysis. <i>John J. DONOVAN</i> (University of Oregon, CAMCOR Microanalytical Facility, Eugene, OR, U.S.A.)
10.30	Refreshment break
11.00	Estimation of $\text{Fe}^{3+}/\text{Fe}_T$ in silicate minerals and glasses using the SXES: Progress and challenges. <i>Charline LORMAND</i> (University of Geneva, Department of Earth Sciences, Geneva, Switzerland) <i>Francesca PICCOLI</i> (University of Bern, Institute of Geological Sciences, Bern, Switzerland)
11.30	Halogen systematics in carbonaceous and ordinary chondrites: Constraints from EPMA and SIMS. <i>Julia NEUKAMPF</i> (The University of Manchester, Department of Earth and Environmental Sciences, Manchester, U.K.)
11.45	Round-table discussion: * Electron probe microanalysis (EPMA). Chairpersons: <i>To be announced later</i>
13.00	Concluding remarks

Registration fees

Online registration is available on the EMAS website (www.microbeamanalysis.eu). Participants are encouraged to complete registration and arrange for their payment, preferably **before 1 April 2027** to qualify for reduced rates.

The workshop registration package includes:

- **lunches** (Mo. – We.) and **all refreshment breaks**;
- the **welcome reception** (Su.) and the **workshop dinner** (We.);
- the **workshop programme booklet**;
- a **PDF-copy of the workshop's *Book of Tutorials and Abstracts*** containing the detailed programme, the text of the invited lectures, and the abstracts of the poster presentations;
- a hard copy of the workshop's *Book of Tutorials and Abstracts* can be ordered, before 1 April 2027, by completing the relevant tick box on the registration page.

	early rate until March 31	late rate as of April 1
<u>Workshop attendance</u>		
- Current EMAS members	€ 650.00	€ 750.00
- Registration + 2-year EMAS membership	€ 720.00	€ 820.00
- Non-member registration only	€ 750.00	€ 850.00
- Student / EMAS member in retirement	€ 350.00	
Hard copy of the Book of Tutorials and Abstracts	€ 80.00	
<u>Workshop dinner</u> (additional ticket) (for exhibitors, accompanying persons)		
	€ 150.00	
<u>Short courses:</u>		
- Introduction to EBSD	€ 75.00	
- Electron probe microanalysis	€ 75.00	
- Monte Carlo simulation	€ 75.00	
- XMapTools	€ 75.00	
<u>Working group meetings:</u>		
- Irradiated & nuclear materials analysis	€ 100.00	
- Reference materials & facility management	€ 75.00	

Social programme

All participants and accompanying persons are invited to the welcome reception on Sunday evening. This informal get-together is hosted by the International Scientific Committee and the Local Organising Committee.

On Wednesday evening, a workshop dinner will be held at the Musée Olympique, Quai d'Ouchy 1, Lausanne. The cost is included in the registration fee but is extra for accompanying persons.

Payment

Payment of the registration fee should be preferentially made through the EMAS website (www.microbeamanalysis.eu) using either:

- a) The online PayPal system with various payment options which are available (e.g., credit cards) depending on your country. An invoice/receipt will be generated by the system.
- b) Online payment method called "VR-payment" set up for credit cards payments with Mastercard, VISA card, and Diners Club.

No PayPal or VR-payment account creation is necessary; no credit card information will be stored on the EMAS website. For enhanced security, please do not send credit card data and details directly via e-mail or in a PDF document to the EMAS Treasurer.

Alternatively, if you prefer to pay by bank transfer, please choose the "pay offline" button and follow the instructions; this will generate your invoice, which includes the complete Sparkassen bank account information in Dresden (Germany) and contact details in order to initiate a bank-to-bank transfer.

Cancellation

Refund of the registration fee (less € 100 administrative costs) will only be granted if notification of cancellation has reached the Workshop Secretariat before 15 April 2027. After this date, no refund will be made. Refunds will be processed after the Workshop.

Insurance

The organisers cannot be held responsible for any personal accident or damage to the property of the participants.

Personal data

Personal information supplied to EMAS will be held on computer and may be used only for purposes connected with the activities of the European Microbeam Analysis Society.

Code of conduct and inclusivity

The open exchange of ideas and the freedom of thought and expression are central to the aims and goals of any EMAS Workshops, Regional or European. EMAS commits to providing a harassment-free, accessible, and pleasant conference experience with equity in rights for all. We want every participant to feel welcome, included, and safe at the conference. Moreover, we will do our best to accommodate specific needs such as accessibility, or dietary requirements. We cannot promise to solve every issue but will try our best. Note that no child-care facility is being organised for this workshop.

We aim to provide a safe, respectful, and harassment-free workshop environment for everyone involved regardless of age, sex, gender, gender identity and expression, sexual orientation, (dis)ability, physical appearance, race, ethnicity, nationality, marital or military status, religious beliefs, dietary requirements, childbirth- and pregnancy-related medical conditions or childcare requirements. We also respect any other status protected by laws of the country in which the conference or program is being held.

We do not tolerate harassment of workshop participants. Harassment includes but is not limited to overt and/or covert acts of:

- Verbal accusations or bullying;
 - Deliberate intimidation, stalking, or following both in person and online;
 - Harassing photography or recording;
 - Sustained disruption of talks or other events;
 - Interference with a person's participation or opportunity for participation;
 - Inappropriate physical contact;
 - Sexual attention;
 - Advocating for, or encouraging, any of the above behaviour.
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Accommodation

We recommend you the following hotels which are close to the EMAS 2027 Workshop location, or along the M1 metro line. Prices mentioned below are estimates (incl. taxes and tourism tax) (online check July 2026) and may evolve quickly:

- a) SwissTech Hotel, Route Louis Favre 10B, 1024 Ecublens
Room rates of CHF 153 per night in single room (breakfast and taxes included). Online bookings can be done on <https://www.swisstech-hotel.com>.
- b) Starling Hotel, Route Cantonale 31, 1025 Saint-Sulpice
Room rates of CHF 290 per night in double room for single or double use (breakfast and taxes included). Online booking can be done on <https://www.starling-hotel-lausanne.com>.
- c) Zleep Hotel Lausanne-Chavannes, 39 Rue Centrale, 1022 Crissier
Room rates of CHF 181 per night in double room for single or double use (breakfast and tax included). Online booking can be done on <https://hrewards.com/de/zleep-hotel-lausanne-chavannes>.
- d) IBIS Styles Lausanne Center Mad House, Place de l'Europe 6, 1003 Lausanne
Room rates of CHF 136 per night in double room for single or double use (breakfast and tax included). Online booking can be done on <https://all.accor.com/hotel/B370/index.en.shtml>.

A youth hostel is available also, with cheaper rooms as cheap as € 80 a night in a dorm. Few private rooms are also available.

The weather in Lausanne in June

In June, Lausanne has a typical mean daytime temperature of about 18 °C, with minima of 14 °C and maxima of 23 °C. June averages 8 to 15 rainy days for a total of about 100 mm of rain.

Venue

University of Lausanne
Anthropole Bldg.
Quartier Dorigny
1015 Chavannes-près-Renens
(Lausanne)



Anthropole building © L. Van 't dack

Lausanne is the fourth largest city of Switzerland and the capital of the French speaking canton of Vaud. It is a vibrant city, with a long Celtic, Roman, and Mediaeval history, on the shores of Lake Geneva (or simply “The Léman”). It is renowned as a global hub for education, sports, and culture, and is also called the Olympic Capital as it hosts the International Olympic Committee and its Museum, which you will have a chance to visit during our Workshop banquet. Lausanne is a rather steep city, starting at 375 m at the lake level in Ouchy, 500-550 m in the centre, and reaching above 700 m on the top part.

It has fortunately an excellent bus and metro system, featuring notably the unique M2 metro, which is the steepest fully automated rubber-tired subway in the world with a slope of 12 %. Ouchy is the harbour area, with regular public boat trips to Montreux, Geneva, France and touristic tours on the lake. The city centre is dominated by the 12th century cathedral and its castle hosting our canton politics, and its famous “Escalier du Marché” staircase and its old town, with notably the Flon valley and Riponne Place that include several shops, bars, restaurants, and night clubs. On the hill above Lausanne is a little green paradise, the forest of Sauvablin with a watch tower offering a view of Lausanne area, the Alps, and the lake. The eastern part of Lausanne

towards Montreux is the UNESCO vineyard of Lavaux, and further is the famous Castle of Chillon. More vineyard is also present in the “La Côte” area, towards Geneva. The Alps are also never far away, and with a couple trains, you can reach in 1h20 the summit of “Rocher de Naye” above Montreux, or you can take the train to Gstaad and Interlaken in the core of the Bernese Oberland (~4 hours), or towards Brig, Zermatt and the Matterhorn (~3 hours).



Escaliers du Marché © L. Van 't dack

The Dorigny university campus is hosting UNIL and EPFL and sits on the western-side of Lausanne. It is easily accessible via the M1 metro line that links Renens

and Lausanne centre. The University was founded in 1537 as a school of theology. In the 1970s, it progressively moved from the centre of Lausanne around the cathedral and the castle, notably at the Palais of Rumine, to its current location in Dorigny. By the end of the 20th century, a greater co-operation has been emplaced between French speaking universities of Geneva, Neuchâtel, and Lausanne. In 2003, the new faculties of Biology and Medicine and of Geosciences and Environment were created to complete the existing faculties of Theology & Religious Studies, Law, Criminal Justice & Public Administration, Arts and Humanities, Social and Political Sciences, and Business & Economics. The site features state-of-the-art facilities like the Anthropole and Géopolis buildings, and is surrounded by a forest, the Sorge and Chambronne rivers, and some agricultural fields. EPFL campus is further west, near the SwissTech hotel.

The Workshop will take place on the ground floor of the Anthropole building, around the Auditorium 1129 in the western part of the building. The Geopolis building hosts the Faculty of Geosciences and Environment, which helped organising this Workshop.

For more information on Lausanne area:

- Lausanne tourisme: <https://www.lausanne-tourisme.ch/en/>
- Dorigny campus and UNIL Anthropole: <https://unil.ch> and <https://www.unil.ch/unil/fr/home/menuinst/campus/acces-et-transport/campus-dorigny/anthropole.html>
- Weather forecast: <https://www.meteoswiss.admin.ch/> (*)
- Train, bus, and more: <https://www.sbb.ch/en> (*)
- Topographic maps of Switzerland for hiking and traveling: <https://map.geo.admin.ch/> (**).

(*) Mobile applications available, for Android or iOS.

(**) Offline maps can be downloaded.



Place de la Riponne in the centre of Lausanne and the Léman at the Olympic Museum © J.M. Allaz

How to get to the Workshop venue

- a) By air:** The Geneva airport (GVA) is situated 57 km west of Lausanne. Geneva airport is connected to Renens (VD; ~ 45 min) and to Lausanne main station (~ 1 h) by intercity trains running twice every hour (IC 1, IR 90, or IR 95).

The Basel-Mulhouse-Freiburg EuroAirport (BSL, MLH, EAP) is situated 200 km north-east of Lausanne. This airport is in France and the bus #50 brings you to Basel (Switzerland), where you can take a train every hour to reach Renens or Lausanne in ~ 3 h (IC 51).

The Zürich airport (ZRH) is situated 230 km north-east of Lausanne. Zürich airport is connected to Lausanne by trains running every ½ hour to Lausanne in 2½ hours, either via Bern (IC 1) or via the foot of the Jura mountains (IC 5 or IC 55).

- b) By train:** Lausanne is accessible by several fast trains notably from France (e.g., Paris ~ 4 h), Italy (e.g., Milano ~ 5 to 6 h), and Germany or Austria (via Zürich), and more.
- c) By bus:** There are some international buses reaching Lausanne, yet train remains the preferred way of locomotion in Switzerland, completed with buses, trams, or tramways in cities, including Lausanne, and some buses to access unreachable valleys.
- d) By car:** Lausanne can be reached from Geneva (west) or Bern / Zürich (north-east of Lausanne) via the motorways E25 and E23, or from France or Italy across Valais / Wallis via E62. Most Alpine passes are opened during the month of June, unless exceptional weather. Be aware that you need a vignette (physical or electronic) to drive on the Swiss motorways (CHF 40 per year = € 44). Make sure to get it on the official website at <https://www.e-vignette.ch> or purchase it at the border before entering Switzerland to avoid unnecessary fees and penalties.

The University of Lausanne (UNIL) is accessible via the exit “St-Sulpice / Ecublens / UNIL EPFL” after the junction towards “Lausanne Sud”.

Local transportation to the Workshop location:

- From “Renens (VD)” train station, take the M1 metro up to “UNIL Chamberonne”.
- From Lausanne main train station, take the M2 metro towards “La Sallaz / Croisettes” and get off at “Lausanne, Flon” (1 stop), then take the M1 metro up to “UNIL Chamberonne”.

Depending on your hotel in Lausanne, you might be entitled to the “Lausanne Transport Card” that gives you free bus, train, and metro rides within the great Lausanne (areas 11, 12, and 15 to 19). Local transport in Lausanne and canton Vaud is called “Mobilis”.

Swiss public transportation from airports and within cities is centralised, reliable, and (usually) on time. However, several working areas are currently impacting Geneva and Lausanne, notably the renovation of Lausanne main station. We recommend all attendees to use the official “SBB Mobile” app for Android or iOS, or to use the website <https://sbb.ch/en>, for travel planning, schedules, live train status and occupancy level, and to purchase tickets. One or two-way tickets can also be purchased at vending machine on the bus or train platform, or in ticket office in the major train stations. Ticket savers are available online (discount price), yet they cannot be exchanged and you must take the train(s) at the time you select. Discounted daily travel card from SBB-CFF-FFS (saver day pass) for the entire Swiss public transportation system (trains, buses, boats, and more) are available as low as CHF 52 (dynamic price, increases with demand) and can be advantageous if you consider extending your stay in Switzerland for sightseeing across the Helvetic Confederation.

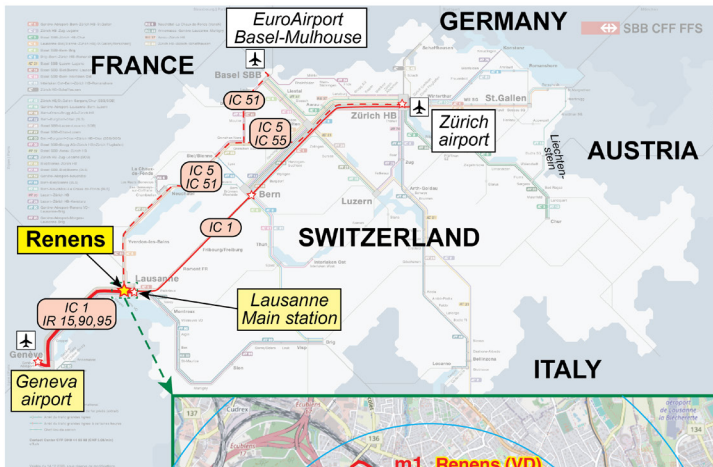
For more information on transportation:

<https://www.unil.ch/unil/en/home/menuinst/campus/acces-et-transports.html>

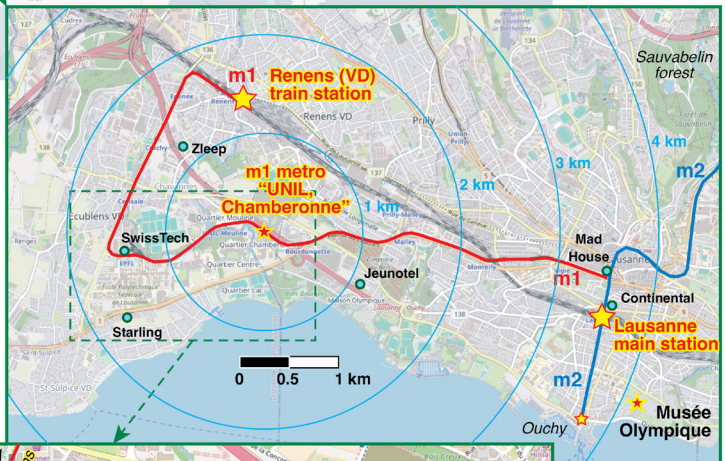
<https://www.sbb.ch/en/travel-information/apps/sbb-mobile.html>

<https://www.sbb.ch/en/offers/saver-day-pass>

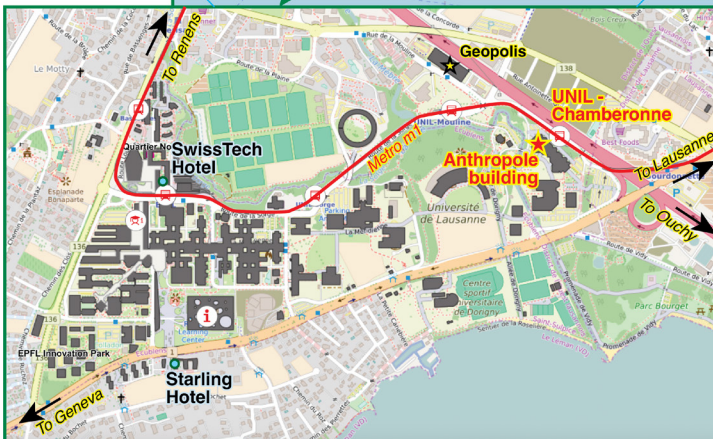
<https://www.mobilis-vaud.ch/>



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Updated information on the workshop can be found at the EMAS 2027 website: www.microbeamanalysis.eu.
