

14-17 June 2026

CentraleSupélec
Université Paris-Saclay

Gif-sur-Yvette, France



EMAS 2026

15th REGIONAL WORKSHOP ON...

**Topical Conference on Electron
Backscatter Diffraction (EBSD)**



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Electron Backscatter Diffraction (EBSD)**

14 - 17 June 2026

CentraleSupélec, Gif-sur-Yvette, France

ANNOUNCEMENT AND PROVISIONAL PROGRAMME

Organised in collaboration with:

ICMMO, ENS Paris-Saclay, Université Paris-Saclay

1. AIMS AND SCOPE

The EMAS 2026 Regional Workshop continues the tradition of biennial EMAS events, offering postgraduate and research professionals in materials science, engineering, geology, and related fields a focused introduction to electron backscatter diffraction (EBSD) and its applications. The 15th workshop, to be held in Gif-sur-Yvette, France, will concentrate on all aspects of EBSD, from fundamental principles to cutting-edge techniques and workflows. Participants will gain practical and theoretical insight into EBSD data acquisition, pattern formation, indexing, calibration, and sample preparation, with sessions covering applications in materials science, metallurgy, and geosciences. The workshop is organised as a low-budget meeting, with lectures delivered by leading experts and a programme tailored to the needs of both new and experienced EBSD users. The format emphasises interactive sessions, poster discussions, and presentations by student award winners, providing a platform to exchange knowledge, best practices, and advances within the EBSD community.

Past EMAS Regional Workshops were held in Finland (1994), Hungary (1996), Spain (1998), the Czech Republic (2000), Poland (2002), Slovenia (2004), Germany (2006), Italy (2008), the Netherlands (2010), Italy (2012), Austria (2014), France (2016), United Kingdom (2018), and the Czech Republic (2024).

The core topics of the 15th EMAS Regional Workshop are:

- ◇ Fundamentals of EBSD:
 - *Historical perspectives in EBSD*
 - *Data collection workflows and instrument calibration*
 - *Crystallography, pattern formation, and indexing strategies*
 - *Sample preparation for EBSD and related microanalysis*
- ◇ EBSD Applications and Advanced Techniques:
 - *EBSD in materials science, metallurgy, and steel research*
 - *EBSD in mineralogy and geosciences*
 - *High-resolution EBSD (HR-EBSD) and 3D-EBSD*
 - *Transmission Kikuchi diffraction (TKD)*
- ◇ Industry and Community Engagement:
 - *Company-led sessions presenting new hardware, software, and applications*
 - *Contributions from student award winners (MAS-USA and AMAS)*
 - *Poster sessions and contributed presentations*

2. SCIENTIFIC PROGRAMME

The programme will consist of invited lectures delivered by renowned experts, two contributing presentations sessions and two poster sessions. The invited lectures and poster abstracts will be published in the workshop's *Book of Tutorials and Abstracts*. The official language of the workshop will be English.

2.1. Provisional programme

Sunday 14 June 2026

17h00 Workshop registration and welcome get-together at the Hotel Campanile
Paris-Saclay, 9 rue Joliot Curie, Gif-sur-Yvette, France

Monday 15 June 2026

08h20 Registration at CentraleSupélec, Bouygues Bldg., 3 rue Joliot Curie,
Gif-sur-Yvette, France (in front of the Rousseau Theatre where the conferences
will take place)

09h00 **Welcome and opening addresses**
- *François Brisset*, ICMMO
- *Véronique Aubin*, CentraleSupélec
- *Hans Dijkstra*, EMAS President

09h15 **EBSD data collection, an historical point of view**, *François Brisset*, CNRS,
Université Paris Saclay, Institut de Chimie Moléculaire et des Matériaux d'Orsay,
Orsay, and CentraleSupélec, Gif-sur-Yvette, France

09h45 **Sample preparation for EBSD**, *Grzegorz Cios*, AGH University of Krakow,
Academic Centre for Materials and Nanotechnology, Krakow, Poland

10h45 Refreshment break

11h15 **Crystallography for EBSD**, *René de Kloe*, Ametek BV, EDAX/Gatan Business
Unit, Tilburg, The Netherlands

12h15 **Good practice for grains size measurement and post processing**,
Patrick Villechaise, CNRS - Université de Poitiers - ISAE-ENSMA, UPR 3346,
Institut P' Pprime, Physics and Mechanics of Materials, Futuroscope Cedex,
France

13h00	Lunch
14h00	<i>Remote session: Bruker Nano: Direct detection in EBSD: Why speed matters?</i>
14h20	Presentation by the MAS-USA Early Career Scientist: Towards extracting space group information from experimental EBSD patterns using unsupervised domain adaptation , <i>Alfred Yan</i> , Northwestern University, Materials Science and Engineering, VPD Group, Evanston, IL, U.S.A.
14h40	<i>Remote session: Oxford Instruments: Improving analysis capabilities by using near-axis transmission Kikuchi diffraction</i>
15h00	Refreshment break / Poster Session I
16h00	<i>Remote session: Thermo Fisher Scientific: Electrons - direct & to the point</i>
16h20	Contributing presentations: 8 presentations of 12 minutes including discussion
18h00	End of session

Tuesday 16 June 2026

09h00	Orientation representation , <i>Stuart I. Wright</i> , Ametek, Inc., GATAN + EDAX Business Unit, Pleasanton, CA, U.S.A.
10h00	EBSD applications in Materials Sciences , <i>Roumen H. Petrov</i> , Delft University of Technology, Fac. Mechanical Engineering, Dept. Materials Science and Engineering, Delft, The Netherlands
10h45	Refreshment break
11h15	EBSD applications in geosciences , <i>Natasha Stephen</i> , The Geological Society, Science & Engagement, London, United Kingdom
12h00	The increasing multi-functionality of high-resolution EBSD , <i>Qiwei Shi</i> , SJTU-Paris Elite Institute of Technology, Shanghai Jiao Tong University, Shanghai, P.R. China
12h45	Lunch

- 14h00 **BLG Vantage: HR EBSD - Progressing from high sensitivity towards high accuracy**, *Graham Meaden*, BLG Production Ltd., Bristol, U.K.
- 14h20 **Presentation by the AMAS Early Career Scientist: title to be defined**,
- 14h40 *Remote session: EDAX: Spherical indexing (poor quality patterns / KAM / precision)*
- 15h00 Refreshment break / Poster Session II
- 16h00 **Contributing presentations: 10 presentations of 12 minutes including discussion**
- 18h00 End of session
Coach transfer to the workshop dinner restaurant
- 19h00 Workshop dinner at ‘La belle Époque’, 10 place des Écoles, Châteaufort
Coach transfer to RER B station Le Guichet and to CentraleSupélec.

Wednesday 17 June 2026

- 09h00 **Electron channelling contrast imaging (ECCI)**, *Nathalie Gey*, Université de Lorraine, Laboratoire d’Étude des Microstructures et de Mécanique des Matériaux, Metz, France
- 10h00 **Recent developments in 3D analytical scanning electron microscopy by serial sectioning**, *Peter J. Konijnenberg*, Max-Planck Inst. for Sustainable Materials, Diffraction and Microscopy Group, Düsseldorf, Germany
- 10h45 **Refreshment break**
- 11h15 **Transmission Kikuchi diffraction in practice: Principles, challenges and emerging opportunities**, *Alice Bastos da Silva Fanta*, Technical University of Denmark, Microstructural Analysis of Materials Processes in the SEM, Kgs. Lyngby, Denmark
- 12h00 **Round-table and Q&A with experts**
- 12h30 Concluding remarks

2.2. Contributed talks and posters presentations

All participants to the workshop are invited to present their work in the form of either a poster or a contributed talk. Abstracts to be presented during the workshop must fit no more than two A4 pages, using the Word-template available on the [abstract submission webpage of the EMAS website](#). Detailed guidelines are mentioned on the template. Online submission details are given on the workshop webpage.

Those presentations selected for contributed talks will have a 12-minute platform presentation (including 2-min for discussion). Abstracts for contributed talks must be submitted by 15 February 2026. Poster presentation abstract deadline is Wednesday 15 April 2026. Authors will be notified of the acceptance of their talk/poster by respectively 28 February 2026 and 23 April 2026.

2.3. 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 poster or contributing presentations abstract, reaching it before 15 April 2026. Applicants will be notified of the allocation of an EMAS Bursary by 23 April 2026..

3. REGISTRATION

Online registration is available on the EMAS website (www.microbeamanalysis.eu). Participants are encouraged to complete registration and arrange for their payment, preferably by 30 April 2026 to qualify for reduced rates.

3.1. Workshop registration fees

	Early registration (by 30 April)	Late registration (as of 1 May)
EMAS member	€ 450	€ 550
Non-member	€ 550	€ 650
Student (ID required)	€ 300	€ 350
EMAS member in retirement		
EMAS Bursary	free	n/a
Extra workshop dinner ticket	€ 80	€ 80
1-day ticket for: either Sunday/Monday, or Tuesday/Wednesday	€ 250	€ 250
Hard copy of the Book of Tutorials and Abstracts	€ 80	not available

The registration fee for respectively EMAS members, non-members, students and EMAS Bursary recipients, includes a PDF copy of the workshop's *Book of Tutorials and Abstracts* (invited lectures manuscripts and poster abstracts), the welcome get-together (Sunday 14 June), the refreshment breaks and two lunches during the workshop, and the workshop dinner (Tuesday 16 June).

The 1-day ticket (Sunday/Monday) includes a PDF copy of the workshop's *Book of Tutorials and Abstracts*, attendance of the Sunday welcome get-together, and on Monday the refreshment breaks and lunch. The 1-day ticket (Tuesday/Wednesday) includes a PDF copy of the workshop's *Book of Tutorials and Abstracts*, on Tuesday the refreshment breaks, lunch and the workshop dinner, and on Wednesday the refreshment break.

3.2. Payment

Payment of the registration fee should be preferentially made through the EMAS website (www.microbeamanalysis.eu) using the online PayPal system (no account necessary); no credit card information will be stored on the EMAS website; various payment options are available (e.g., credit cards) depending on your country. An invoice/receipt will be generated by the system.

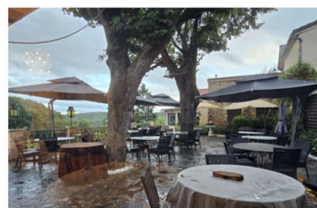
Alternatively, if you prefer to pay by bank transfer or any other offline payment method, please choose the "pay offline" button and follow the instructions; this will generate your invoice, which includes bank transfer and contact details.

3.3. Cancellation policy

A refund of the registration fee (less € 50 administration costs) will be granted only if notification of cancellation is given to the workshop secretariat by 15 May 2026. After this date no refund will be made. Refunds will be processed after the Workshop.

3.4. Social events

These include the Sunday informal get-together at the Hotel Campanile Paris-Saclay, 9 rue Joliot Curie, Gif-sur-Yvette, and the Tuesday evening workshop dinner at the 'La belle Époque', 10 place des Écoles, Châteaufort.



3.5. Insurance

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

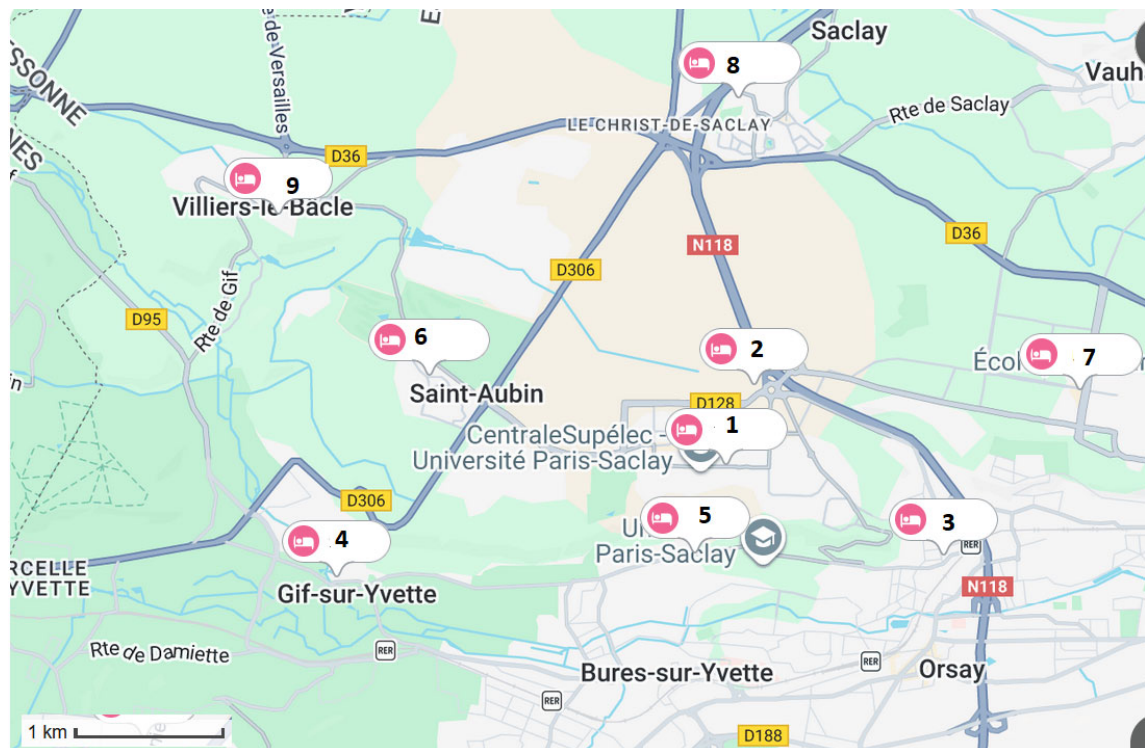
3.6. Personal data

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

3.7. Hotel accommodation

Hotel accommodation should be arranged in Gif-sur-Yvette or Orsay or along the RER B subway train line to Paris. It is highly recommended to book or pre-book hotel rooms as soon as possible. Possibilities are available through the usual on-line booking services. Nearby hotel list (see map):

- | | |
|----------------------------|-------------------------------|
| 1 Campanile Paris-Saclay | 6 Les Chevaliers des Balances |
| 2 B&B hotel Saclay | 7 Apparthotel Adagio |
| 3 Hôtel d'Orsay | 8 Novotel Paris Saclay |
| 4 Hotel Le Village | 9 Gîte la ferme Vandame |
| 5 Appart hotel – Residhome | |



- 1 Is just facing CentraleSupélec (CS).
- 2 Is at about 10 minutes on foot to CS.
- 3 Is situated at 5 minutes to Le Guichet RER B station and CS is accessible with the bus line 4609 situated down the RER station.
- 4 Is in the centre of the Gif-sur-Yvette city at about 10 minutes on foot from the RER B Gif-sur-Yvette station. CS can be reached by RER B (stop at Orsay-ville) then bus 4607 or can be reached by RER B (stop at Le Guichet) then by bus (4609).
- 5 Is not in the centre of Gif-sur-Yvette and you can reach it from Bures-sur-Yvette RER B station. But it takes around 20-25 minutes on foot to reach it from the station.
- 6 Is in the centre of the village Saint Aubin and can be reach by bus 4609 (stop at Saint Aubin) about 5 minutes from the bus stop. Use the same line to get to CS.
- 7 Could be reach by bus line 4606 (from Massy-Palaiseau RER B station). Use the same line to get to CS.
- 8 Is at village of Saclay and could be reach by bus 4609 (stop at Mairie de Saclay), but it is going to be a bit long from Massy-Palaiseau RER B station, better by car.
- 9 Is easy to reach but by car.

Note that there are restaurants near the RER B Le Guichet station, when you go down to Orsay city centre, and in Orsay city centre. There are a few in Gif-sur-Yvette city centre. But not a lot near CentraleSupélec.

4. LOCATION

4.1. Workshop venue – CentraleSupélec and LMPS (Laboratoire de Mécanique de Paris-Saclay)

The workshop will be held at CentraleSupélec in partnership with ICMMO, both sites being located within the perimeter of Université Paris-Saclay (UPS). UPS comprises five faculties and is affiliated with four prestigious engineering schools: CentraleSupélec, ENS Paris-Saclay, AgroParisTech, and the Institut d'Optique, as well as the universities of Evry and Versailles. In the latest ARWU rankings, it is ranked 13th worldwide and first among French universities.

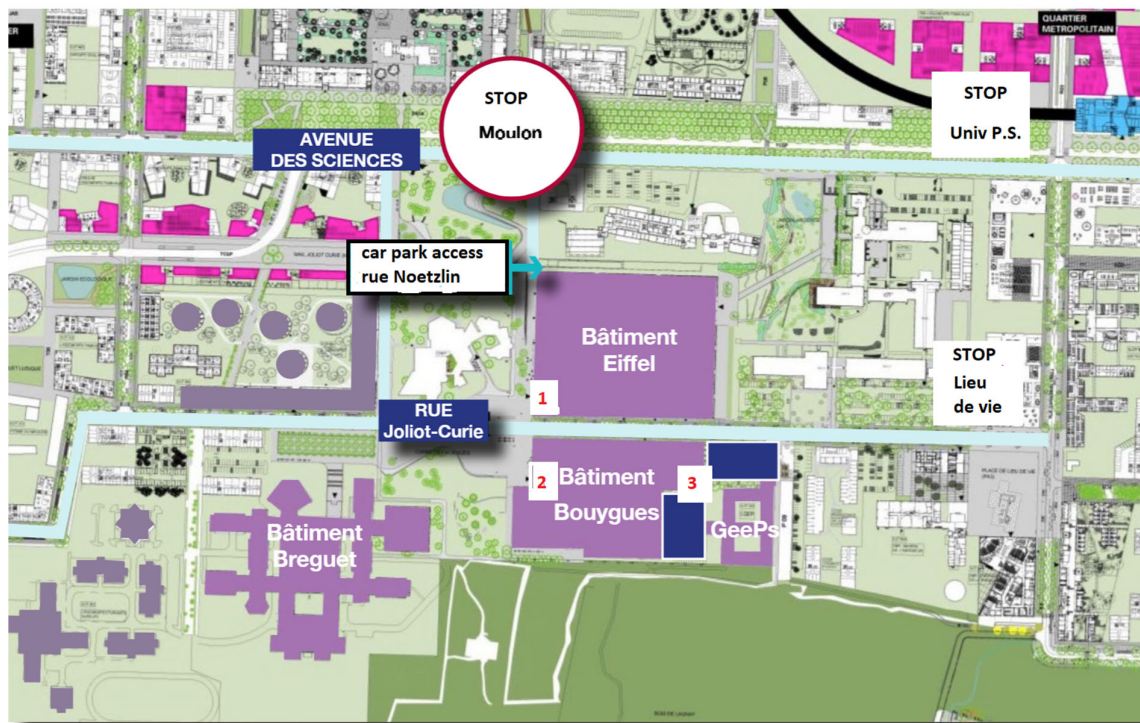
CentraleSupélec is a leading engineering school that combines academic rigor and practical expertise to train the responsible leaders of tomorrow. Its main missions are training high-level scientific general engineers, research in engineering and systems sciences, and executive education. A major player in engineering science research, CentraleSupélec develops cutting-edge research to foster innovation. Driven by an interdisciplinary dynamic, its Research Centre is committed to addressing major technological, societal, and environmental challenges.

The LMPS (Laboratoire de Mécanique Paris-Saclay) was created in 2022 through the merger of the LMT (Laboratoire de Mécanique et Technologie - ENS Paris-Saclay) and MSSMat (Laboratoire de Mécanique des Sols, Structures et Matériaux - CentraleSupélec). Comprising nearly 220 staff members, this research unit, associated to CNRS, dedicated to experimentation, modelling, and simulation in solid mechanics, aims to address challenges in the fields of energy, resource management, and sustainable transportation, particularly in relation to climate change adaptation and industrial renewal.

4.2. Workshop venue – Facilities

The workshop will be held at CentraleSupélec, rue Joliot Curie, 91190 Gif-sur-Yvette. Facilities in buildings Eiffel and Bouygues will be used. A free car park will be possible for those coming by car (see on the map on the following page).

No. 1 is the main entrance of the Eiffel building, No. 2 is the main entrance of the Bouygues building, and No. 3 is the entrance of the Campanile hotel. The Rousseau theatre is situated in the Bouygues building just after the welcome desk on the left



No. 1 is the main entrance of the Eiffel bldg.;
 No. 2 is the main entrance of the Bouygues bldg.;
 No. 3 is the entrance of the Campanile hotel. The Rousseau theatre is situated in the Bouygues bldg. just after the welcome desk on the left.

The exhibition/break/posters/lunch area is at the Michelin terrasse situated on the 1st floor of the Eiffel building. Take the stairs on the right just after the main entrance.



4.3. Sightseeing

There are some nice places around Gif-sur-Yvette / Orsay but they are not so easy to reach without a car. For some touristic attractions it is probably easier to think at Paris. Paris is at about 1 hour from the conference centre using RER B line (south direction).

If you would like to visit the Notre Dame cathedral, which reopened last year after the memorable fire, it is free of charge (without guide) but you have to book in advance and booking is only possible the morning of the selected day (at least at present). See web site: <https://resa.notredamedeparis.fr/en/reservationindividuelle/tickets>

You can go on the cathedral towers and get your ticket here:

<https://resa.notredamedeparis.fr/en/reservationindividuelle/tickets>

There is also an immersive virtual reality tour on the cathedral front square, Eternal Notre Dame: <https://parisjetaime.com/eng/tickets/eternal-notre-dame-m9001308>

For this one, if you have a Navigo card (most probably to use the public transport) choose the second choice (reduced price).

For any other attraction, the Louvre or Orsay museums, Eiffel tower, etc... book in advance.

4.4. How to get to Paris, then to CentraleSupélec

- By air

From the [Roissy Charles de Gaulle airport](#) you have to take the RER B (direction Massy Saint Rémy lès Chevreuse or Orsay-ville or eventually Mass-Palaiseau). Then there are 3 options:

- 1 Stop at Massy-Palaiseau RER B station and take the bus 4606 direction Christ de Saclay and stop at Moulon (or eventually Université Paris-Saclay).
- 2 Stop at Le Guichet RER station. Then take the bus line 4609 just down the station (direction Campus HEC or Gare de Jouy en Josas) and stop at Université Paris-Saclay or Moulon (follow the students). You could eventually take bus 4606 and stop Université Paris-Saclay or Moulon.
- 3 Stop at Orsay-ville RER B station then take the bus 4607 (take the street down the station, follow the students) and stop at Lieu de Vie or Université Paris-Saclay.

Bus map lines:

<https://www.paris-saclay.com/vos-services/transports/bus/>

RER B line:

<https://www.ratp.fr/plans-lignes/rer/b>

From the [Orly airport](#) take the “Orlyval” tram line to the Antony terminus (7 minutes). Then take RER B as above.

From Beauvais airport take the shuttle to Paris Porte Maillot. Then the metro line 1 to Chatelet and RER B from Chatelet-Les Halles. Then as above.

- By train

From Gare du Nord, Gare de l'Est or any train station of Paris, get the RER B in Paris at any station (direction Massy Saint Rémy lès Chevreuse or Orsay-ville or eventually Mass-Palaiseau). Then as above.

Note that in the morning, buses from Massy-Palaiseau or Le Guichet could be quite crowded to reach CentraleSupélec. We are waiting for the new metro line to open in 2026, but it is not yet open.

- By car

The best is to use your navigator, because to drive around Paris if you come from the north or the east, several roads could be recommended. The official address of the CentraleSupélec official address is rue Joliot Curie at Gif-sur-Yvette; take care if you drive to the school as the entrance of the car park is on the other side of the building. In that case you have to arrive via 'avenue des Sciences', then take the little road called 'rue Noetzlin'. However, contact us in advance so you could get a car park code to enter into it; code that you will have to enter at the barrier to be able to go down the slope. We will then explain to you how to reach the workshop.

5. KEY DATES

15 February 2026	deadline for submission of abstracts for oral contributions
28 February 2026	notification of acceptance of oral contributions
15 April 2026	deadline for submission of abstracts for poster presentations deadline for applications for EMAS Bursaries
23 April 2026	notification of acceptance of poster contributions notification of decision on EMAS Bursary applications
30 April 2026	early registration deadline
14-17 June 2026	EMAS 2026 Regional Workshop, Gif-sur-Yvette, France

6. WORKSHOP COMMITTEE, SECRETARIAT, WEBSITE

6.1. International Scientific Committee

- François Brisset CNRS, Université Paris Saclay, ICMMO, CentraleSupélec
- Grzegorz Cios AGH University of Krakow
- René de Kloe Ametek BV, EDAX/Gatan Business Unit
- Hans Dijkstra EMAS
- Ute Golla-Schindler Aalen University
- Bjorn E. Sorensen Norwegian University of Science and Technology (NTNU)
- Maria Wątroba Empa - Swiss Federal Lab. for Materials Science and Engineering

6.2. Local Organising Committee

- Marc Bonnet CNRS, ENS Paris-Saclay, CentraleSupélec, LMPS
- François Brisset CNRS, Université Paris-Saclay, ICMMO, CentraleSupélec
- Louis Cornet CNRS, ENS Paris-Saclay, CentraleSupélec, LMPS
- Luc Van't dack EMAS

6.3. Workshop Secretariat

European Microbeam Analysis Society (EMAS)
c/o University of Antwerp
Department of Chemistry, Research group PLASMANT
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