

Exploring SEM & TEM: From Fundamentals to Applications

April 21th at 9h00



TITLE: Calcium carbonate crystals; SUBJECT: Cubic crystal of calcite with aragonite nanorods;
CREDIT: Electron Microscopy Platform, UNamur.; METHOD/INSTRUMENT: JEOL 7500F



PLATFORM

Microscopie électronique



JEOL (Europe) BV
Leuvensesteenweg 542
1930 Zaventem
Belgium

Lireweg 4
2153 PH Nieuw-Vennep
The Netherlands



Dear students, researchers, and industry professionals,

We are delighted to invite you to our upcoming event at **Université de Namur**, dedicated to **knowledge sharing** and hands-on exploration of electron microscopy techniques, including **SEM, TEM, cross-section preparation (CP), and FIB**.

This event will bring together students, academics, and industry representatives to explore the evolution of electron microscopy, deepen their understanding of advanced analytical techniques, and engage in live demonstrations in a real research environment.

Date: Tuesday, April 21, 2026

Time: Starting at 09:00

Location: Université de Namur, Pl. du Palais de Justice, 5000 Namur

Throughout the day, participants will attend a series of presentations covering the **chronological development of SEM and TEM**, as well as key analytical methods and detector technologies, including **EDS, windowless EDS, WDS, SXES, EBSD**.

Live Demonstrations & Lab Tour

A **benchtop SEM** will be demonstrated during the event, and participants will be invited to join a guided tour of the microscopes and laboratories, offering an up-close view of active research and industrial applications.

During the event, you will have the opportunity to engage with JEOL experts and **members of the Electron Microscopy Platform, discover available capabilities, and strengthen support for your research projects or industrial requests.**

We warmly encourage you to join us for this inspiring day of learning, networking, and hands-on exploration in the field of electron microscopy.

This event provides **1 ECTS credit** for researchers pursuing doctoral training. A certificate of participation will be issued upon request.

Best regards,

The Organizing Team

Venue:

Université de Namur: Faculté de Médecine



View building from main entrance.

Address - meeting room:

UNamur
Pl. du Palais de Justice
5000 Namur
Belgium

Fidan Barkhoudarova: Barkhoudarova@jeolbenelux.com
Phone (office): +32 472 09 56 79

Jean-François Colomer: jean-francois.colomer@unamur.be
Phone (office): +32 476 71 18 54

Registration is mandatory, free of charge and must be completed:

- ✓ Deadline: April 6, 2025
- ✓ Requirement: Registration is required for all attendees

👉 **Don't miss out — Register Now**

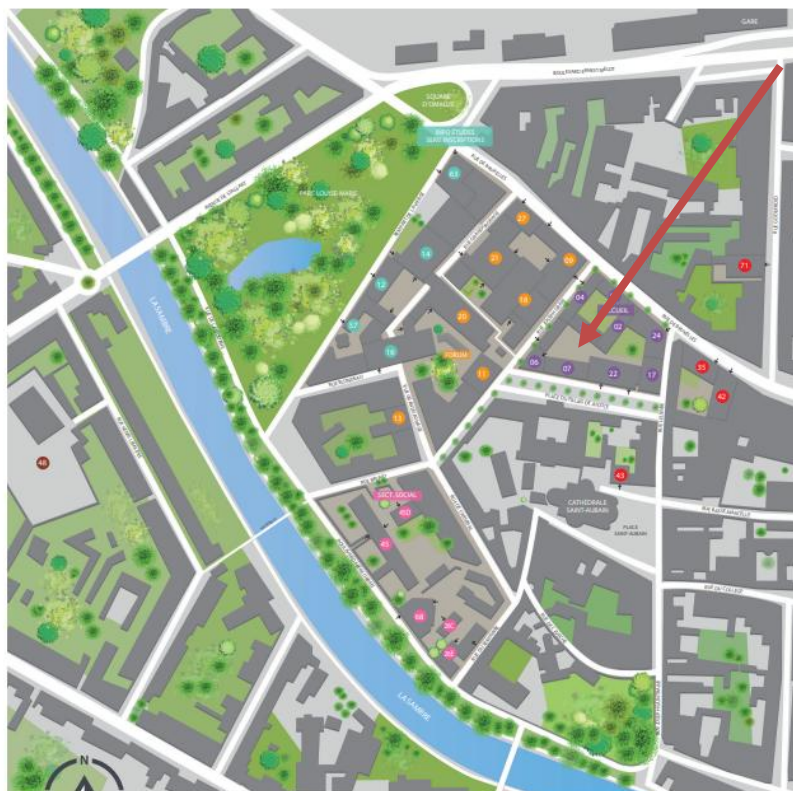
<https://www.billetweb.fr/exploring-sem-tem-from-fundamentals-to-applications>

Please note that the number of places is limited.

Entrance : Main entrance



Plan du campus universitaire



UNamur



Info études



Secteur social



Service des inscriptions

FACULTÉS - DÉPARTEMENTS INTERFACULTAIRES	Bât.
Faculté de droit	15
Faculté d'informatique	16
Faculté de médecine	22
Faculté de philosophie et lettres	31
Faculté des sciences	32
Faculté des sciences économiques, sociales et de gestion	33
Département éducation et technologie	34
École des langues vivantes	35

AMPHITHÉÂTRES	Bât.
Adam Smith E01	15
Aula Maior L01	31
Informatique K02	16
Médecine M01	22
Pedro Arrupe PA01 et PA02	33
Pierre Maon D01	34
Physique/Chimie CH01	35
Sciences S01	32
Vauban	35

ADMINISTRATION ET SERVICES	Bât.
Accueil	31
Administration de la recherche	33
Administration de l'enseignement (Service des inscriptions, Info études, Enseignement)	34
Business and learning center	35
Rectorat et vice-rectorats	33
Secteur social	35
Service communication	34
Services généraux	35

BÂTIMENTS	Bât.
Arsenal (restaurants universitaires)	35
Bibliothèque universitaire Moretus Plantin	31
Chapelle universitaire	31
Crèche	31
Espace culturel universitaire (Nom de la Rose)	35
Parking Henri Lemaître	31
Presses universitaires de Namur	31
Quai 22	35

AUDITOIRES ET SÉMINAIRES			
Code salles	Bât.	Code salles	Bât.
B01 à B51	17 26	BN01 à BN22	33
L01 à L55	01 03 04	S01 à S51	02
CH01 à CH45	11	M01 à M51	05 06 07
E01 à E62	12	D01 à D51	14
BUMP01 à BUMP33	23	PA01 à PA24	33

Fiche d'accessibilité multimodale



Légende

- | | | |
|--------------------------|---|--------------------|
| Sites de l'UNamur | Parkings vélo UNamur couverts sécurisés | Parkings UNamur |
| Piétonnier | Parkings vélo couverts sécurisés | Stations Cambio |
| Stations Li bia vélo | Magasins de vélo | Bornes de recharge |
| Stations Blue-Bike | Arrêts de transports en commun | Maison du TEC |
| Pistes cyclables (RAVel) | Parkings payants | |



• By public transport

Train schedule: www.belgiantrain.be

Are you coming by Car?

Namur is easily accessible via the E411 (Brussels–Luxembourg) and the N4. Public parking is available nearby at:

- **Parking Palais de Justice** (directly on the square)
- **Parking Beffroi** (5–7 minutes walking distance)
- **Parking Albert 1er** (10 minutes walking distance)

Please note that parking in the city center may be limited during peak hours; arriving early is recommended.

Are you coming by Train?

Namur Station is located approximately 10 minutes on foot from the venue. From the station, follow the signs toward the city center and continue uphill toward Place du Palais de Justice. The Faculty of Medicine is situated directly on the square.

Coming by bike? The campus is within walking distance from the city center and is bicycle-friendly. Bicycle racks are available near the entrance of the Faculty.

Are you coming by bus? Several TEC bus lines stop near the venue. The closest stops are “Palais de Justice” and “Namur Rue du Collège”, both within a 2–3 minute walk.

Agenda

Tuesday, April 21th

09:00 – 09:30	Welcome Reception with coffee and pastries
09:30 – 09:45	Opening & Introduction of the Day
10:30 – 11:30	Lecture with Emanuel Katzmann Presentation: TEM / CRYO TEM.
11:30 – 12:30	Lecture with Yamaguchi-san Presentation: SEM imaging, CP and FIB sample prep.
12:30 – 13:30	Lunch Break
13:30 – 14:30	Lecture with Rick Verberne Presentation: Analytical methods in electron microscopy (EDS, windowless EDS, WDS, SXES, EBSD)
14:30 – 14:45	Discover electron microscopy platform General introduction before guided lab tour with J.-F. Colomer
14:45 – 16:45	<p>Hands-on Session JEOL JCM-7000 Benchtop SEM. Discover how accessible and intuitive high-quality SEM imaging can be.</p> <p>During this session we will demonstrate:</p> <ul style="list-style-type: none">• Suitable sample types and simple preparation guidelines• How to choose the optimal observation mode (SE, BSE, low-vacuum, etc.)• Practical use of the instrument's detectors and imaging features• Live sample analysis — feel free to bring your own samples (Please inform us in advance which samples you plan to bring.) <p>Discussions, exchange ideas and Networking</p> <p>Guided Tour of the Microscopes and Laboratories The event also includes a guided lab tour, followed by drinks and snacks to conclude.</p>
16:45 – 17:15	Closing Sessions Q&A

Thank you and we look forward to seeing you there!

