

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



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

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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>

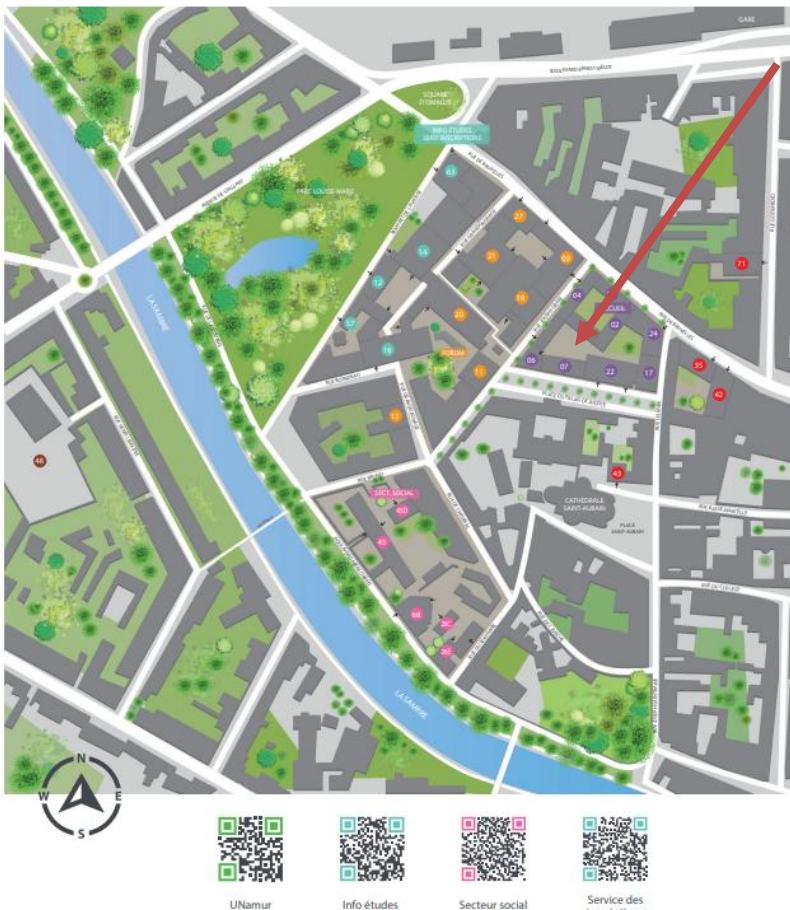
Please note that the number of places is limited.

Entrance : Main entrance



**UNIVERSITÉ
DE NAMUR**

Plan du campus
universitaire



FACULTÉS - DÉPARTEMENTS INTERFACULTAIRES	
Faculté de droit	Bât. 1
Faculté d'informatique	Bât. 2
Faculté de médecine	Bât. 3
Faculté de philosophie et lettres	Bât. 4
Faculté des sciences	Bât. 5
Faculté des sciences économiques, sociales et de gestion	Bât. 6
Département éducation et technologie	Bât. 7
École des langues vivantes	Bât. 8

AMPHITHÉÂTRES	
Adam Smith E01	Bât. 9
Aula Maior L01	Bât. 10
Informatique I02	Bât. 11
Médecine M01	Bât. 12
Pedro Arrupe PA01 et PA02	Bât. 13
Pierre Maon D01	Bât. 14
Physique/Chimie CH01	Bât. 15
Sciences S01	Bât. 16
Vauban	Bât. 17

ADMINISTRATION ET SERVICES	
Accueil	Bât. 18
Administration de la recherche	Bât. 19
Administration de l'enseignement (Service des inscriptions, Info études, Enseignement)	Bât. 20
Business and learning center	Bât. 21
Rectorat et vice-rectorats	Bât. 22
Secteur social	Bât. 23
Service communication	Bât. 24
Services généraux	Bât. 25

BÂTIMENTS	
Arsenal (restaurants universitaires)	Bât. 26
Bibliothèque universitaire Moretus Plantin	Bât. 27
Chapelle universitaire	Bât. 28
Crèche	Bât. 29
Espace culturel universitaire (Nom de la Rose)	Bât. 30
Parking Henri Lemaitre	Bât. 31
Presses universitaires de Namur	Bât. 32
Quai 22	Bât. 33

AUDITOIRES ET SÉMINAIRES	
Code salles	Bât.
B01 à B51	B01 à BN22
L01 à L55	S01 à S51
CH01 à CH45	M01 à M51
E01 à E62	D01 à D51
BUMP01 à BUMP33	PA01 à PA24

Fiche d'accessibilité multimodale



Légende

- Sites de l'UNamur
- Piétonnier
- Stations Li bia vélo
- Stations Blue-Bike
- Pistes cyclables (RAvEЛ)

- Parkings vélo UNamur couverts sécurisés
- Parkings vélo couverts sécurisés
- Magasins de vélo
- Arrêts de transports en commun
- P Parkings payants

- P Parkings UNamur
- C Stations Cambio
- B Bornes de recharge
- TEC Maison du TEC



- 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	Hands-on Session JEOL JCM-7000 Benchtop SEM. Discover how accessible and intuitive high-quality SEM imaging can be. During this session we will demonstrate: <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.)
	Discussions, exchange ideas and Networking
	Guided Tour of the Microscopes and Laboratories The event also includes a guided lab tour , followed by drinks and snacks to conclude.
16:45 – 17:15	Closing Sessions Q&A

Thank you and we look forward to seeing you there!

