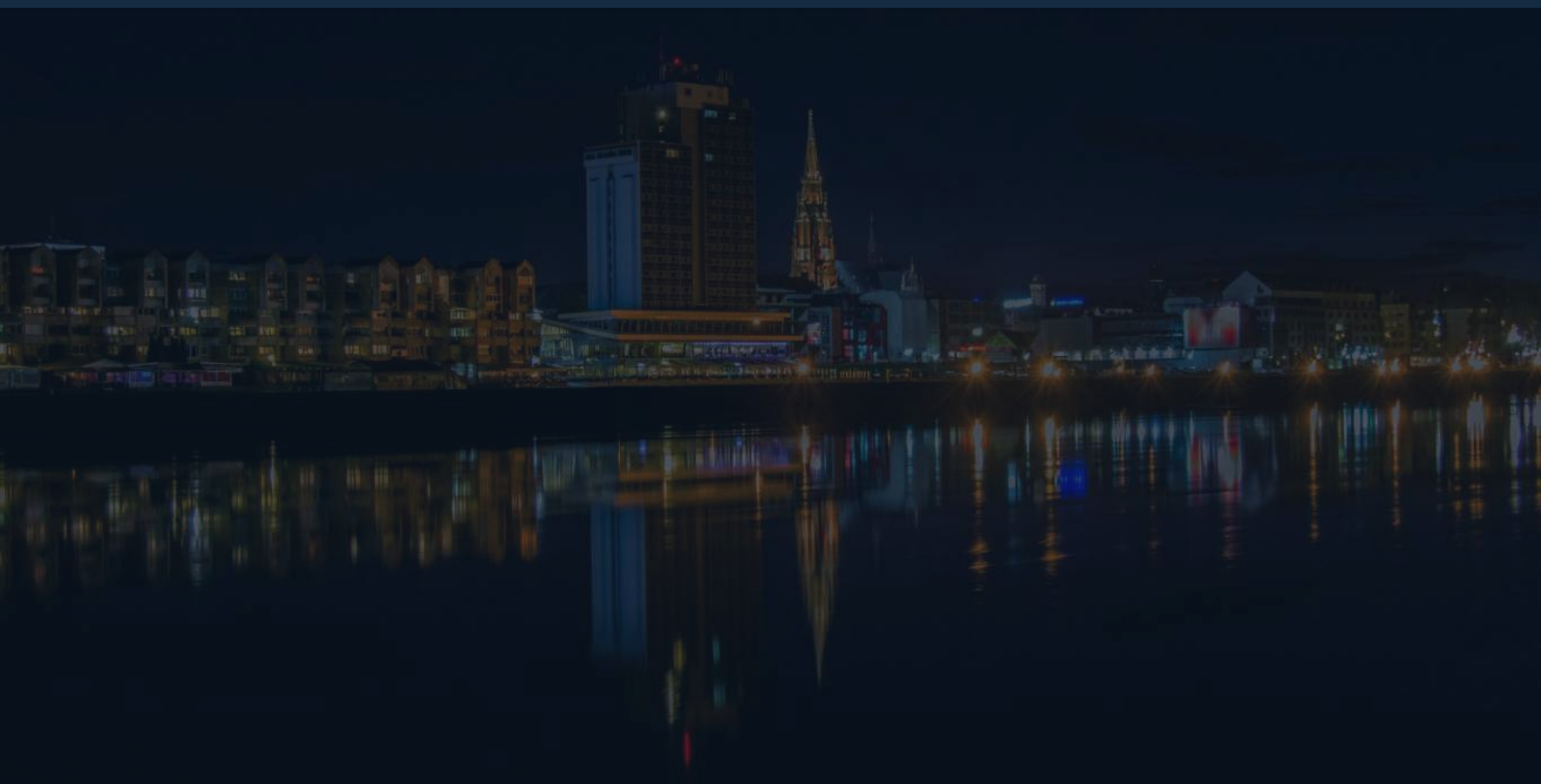


CMC2026

5th Croatian Microscopy Congress

with international participation



16-18 SEPTEMBER 2026

Faculty of Agrobiotechnical Sciences Osijek
Osijek, Croatia



CONGRESS INFORMATION

5th Croatian Microscopy Congress with international participation

CMC2026

16-18 September 2026

Faculty of Agrobiotechnical Sciences Osijek
Vladimira Preloga 1, 31000 Osijek, Croatia

mikroskopija.hr/cmc2026

info@mikroskopija.hr

Organised by

Croatian Microscopy Society

in collaboration with the Faculty of Agrobiotechnical Sciences Osijek and the Faculty of Medicine Osijek



Programme contents

Committees	3
Welcome to CMC2026	4
Programme at a glance	6
Wednesday programme	7
Thursday programme	9-10
Friday programme	12-13
Social programme	15
Poster presentations	17-18
Sponsors and exhibitors	20
Practical information	21
Industry partner profiles	22-23
Sponsor advertisements	5, 8, 11, 14, 16, 19
Notes	24

CMC2026 ONLINE



COMMITTEES

Scientific excellence and organisation

SCIENTIFIC COMMITTEE

- Petra Peharec Štefanić •
- Andreja Gajović •
- Davor Kovačević •
- Goran Kovačević •
- Igor Weber •
- Jelena Macan •
- Maja Herak Bosnar •
- Suzana Šegota •
- Tatjana Belovari •

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- Nikola Bijelić •
- Damir Sirovina •
- Danijel Jug •
- Edi Rođak •
- Nika Srb •
- Ante Krstanović •

Together, we welcome you to three days dedicated to microscopy.

WELCOME TO CMC2026

Osijek · 16-18 September 2026

We are delighted to welcome scientists, researchers, students and industry professionals to the **5th Croatian Microscopy Congress with international participation**. CMC2026 brings together the Life Science and Material Science microscopy communities for three days of scientific exchange, advanced imaging, discussion and collaboration.

The programme features plenary and invited lectures, selected oral presentations, industry sessions, a dedicated poster session and an exhibition of current microscopy technologies. We hope that the congress will encourage new connections and provide young scientists with an inspiring environment in which to share their work.

This edition also marks **50 years since Croatia's first scanning electron microscope was installed** at the Željezara Sisak Institute of Metallurgy. We are proud to celebrate this milestone and half a century of electron microscopy development in Croatia.

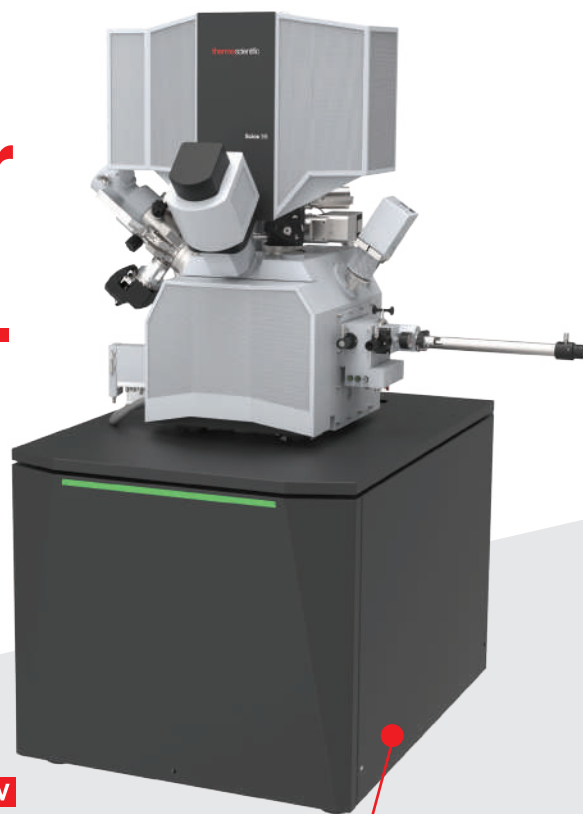
We thank all speakers, participants, sponsors, exhibitors and partner institutions for making CMC2026 possible. We wish you a productive congress and a memorable stay in Osijek.

"Microscopy will always be something special."

- Zvonimir Devidé

Unlock the power of precision with our advance electron microscopy services.

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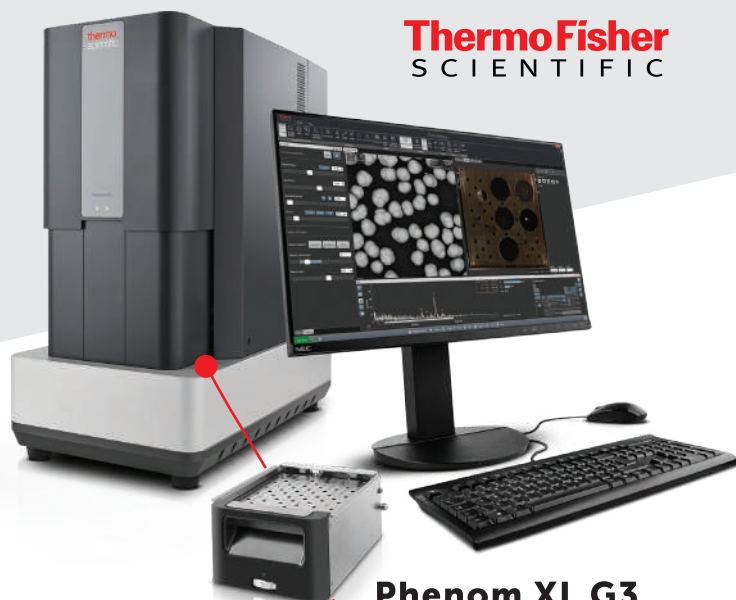
Thermo Scientific Scios 3 FIB-SEM builds on well-known AutoTEM and Auto Slice & View with the new **Auto Cross Section (AXS)** software, enabling automated FIB cross-sectioning and multi-scale SEM imaging for fast, precise, and reliable materials analysis.

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PROGRAMME AT A GLANCE

Three days of microscopy, exchange and collaboration

**WED
16 SEP**

Arrival, pre-congress activities, opening plenary and welcome reception

**THU
17 SEP**

Plenary lectures, parallel sessions, industry presentations, posters and gala dinner

**FRI
18 SEP**

Plenary lecture, parallel sessions, sponsor presentations, closing and winery visit

WEDNESDAY

16 SEPTEMBER 2026

Arrival, opening and welcome reception

14:30-16:00

OPTIONAL PRE-CONGRESS ACTIVITIES

Advance registration required. Option A: Guided Walking Tour of Osijek. Option B: Visit to the iMScope TRIO Mass Microscope. A preference survey and meeting details will be sent separately.

15:30-17:00

REGISTRATION AND POSTER SETUP

 FAZOS ATRIUM

Registration desk, poster mounting and welcome coffee.

17:00-17:10

OPENING CEREMONY

 AULA MAGNA

Welcome address: **Petra Peharec Štefanić**

17:10-18:00

PLENARY LECTURE

 AULA MAGNA

Sandra Bischoff

SEM in Textile Science: Advances in Topological, Morphological and Chemical Characterization
MATERIAL SCIENCE · 40 min + 10 min discussion

Chair: Jelena Macan

18:00-21:00

WELCOME RECEPTION

 FAZOS ATRIUM

Authentic local Slavonian food by **plodovi.hr**, drinks and informal networking.

POSTER DISPLAY

Posters may remain displayed throughout the scientific programme. Poster numbering is provided at the end of this Programme Book; mounting information will be available at registration.



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THURSDAY

17 SEPTEMBER 2026

Scientific programme · morning

09:00-09:50

AULA MEDIA

PLENARY LECTURE

Marie Vancova

Volume Electron Microscopy: What It Can Reveal and What It Takes

LIFE SCIENCE · 40 min + 10 min discussion

Chair: Bruno Komazec

09:50-10:20

FAZOS ATRIUM

COFFEE BREAK, EXHIBITION AND ROOM CHANGE

30 min · Coffee breaks sponsored by ITR-LAB

ITR LAB
JUST COFFEE

LIFE SCIENCE

AULA ALTA

Nanoscale and Ultrastructural Organization of Cells

10:20-10:45

Agnes Kittel

INVITED

Changing Significance of Electron Microscopy in the Investigation of Extracellular Vesicles

10:45-11:00

Maja Herak Bosnar

SELECTED

Defining the Sequence Signals Governing NME6 Mitochondrial Targeting

CHAIRS

Igor Weber and Petra Peharec Štefanić

MATERIAL SCIENCE

AULA MEDIA

Nanoengineering and Nanostructured Materials

10:20-10:45

Nina Daneu

INVITED

Atomic Scale Insights into the Formation Mechanism and Photocatalytic Properties of SrTiO₃/Bi₄Ti₃O₁₂ Nanoplatelets

10:45-11:00

Vedran Kojić

SELECTED

Morphology of Lead Halide Perovskite Thin Films via Spin Coating and Slot-Die Coating

CHAIR

Andreja Gajović

11:00-11:25

FAZOS ATRIUM

COFFEE BREAK AND SPONSOR EXHIBITION

25 min · Coffee breaks sponsored by ITR-LAB

ITR LAB
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11:25-12:30

AULA MEDIA

INDUSTRY PRESENTATIONS

11:25-11:55 **ITR-LAB** - Gold Sponsor (30 min)11:55-12:15 **SPECION** - Silver Sponsor (20 min)12:15-12:30 **Ansar-Analitika** - Bronze Sponsor (15 min)

12:30-14:10

FAZOS ATRIUM

LUNCH BREAK

100 min

THURSDAY

17 SEPTEMBER 2026

Afternoon, posters and gala dinner

14:10-15:00

AULA MEDIA

PLENARY LECTURE

Sašo Šturm

Transmission Electron Microscopy of Nanoparticle Nucleation, Growth and Dissolution: From Stardust to Nanoconfined Electrochemistry

MATERIAL SCIENCE · 40 min + 10 min discussion

Chair: Andreja Gajović

15:00-15:15

FAZOS ATRIUM

COFFEE BREAK AND SPONSOR EXHIBITION

15 min · Coffee breaks sponsored by ITR-LAB

ITRLAB
JUST COFFEE

15:15-15:50

AULA MEDIA

INDUSTRY PRESENTATIONS

15:15-15:35 **SCAN** - Silver Sponsor (20 min)15:35-15:50 **Biosistemi** - Bronze Sponsor (15 min)

15:50-16:00

AULA MEDIA / ALTA

ROOM CHANGE

10 min · Transition to the parallel session rooms.

LIFE SCIENCE

AULA ALTA

Microscopy in Organismal Physiology and Environmental Research

16:00-16:25 Ivana Restović

INVITED

Ultrastructural and Biochemical Characterisation of the Renal Parenchyma in Rainbow Trout (*Oncorhynchus mykiss*) under Intensive Cage-Farming Conditions

16:25-16:40 Dunja Igrec

SELECTED

Establishment and Microscopic Characterisation of an *In Vitro* Adipogenesis Model in 3T3-L1 Cells

CHAIR

Danijela Poljuha

MATERIAL SCIENCE

AULA MEDIA

Advanced Materials at the Atomic Scale

16:00-16:25 Marin Petrović

INVITED

Spectromicroscopy of Epitaxial Borophene: Synthesis, Functionalization and Heterostructures

16:25-16:40 Andreja Gajović

SELECTED

The Atomic Resolution Electron Microscopy Study of the WTaVCr Intended for Fusion Application

CHAIR

Jelena Macan

16:45-18:00

FAZOS ATRIUM

DEDICATED POSTER SESSION

Poster discussions with coffee and light refreshments. Presenters are requested to remain by their posters during the session.

19:00-LATE

HOTEL OSIJEK

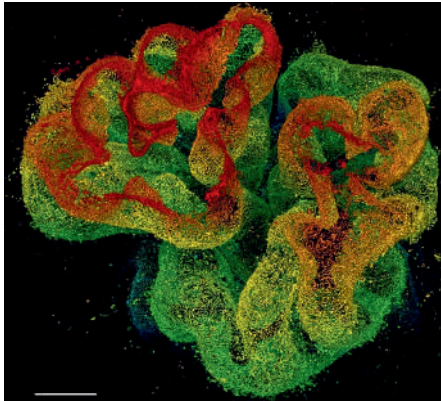
GALA DINNER

Formal congress dinner and evening programme.

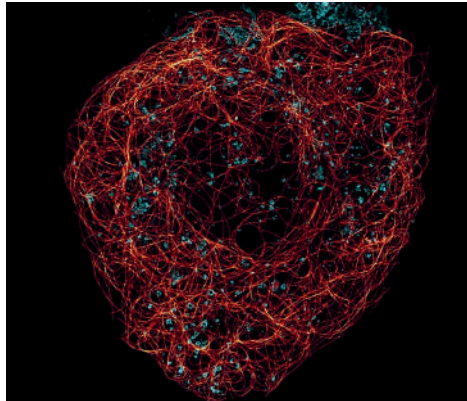
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LIFE SCIENCES



MATERIALS SCIENCE



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FRIDAY

18 SEPTEMBER 2026

Scientific programme · morning

09:00-09:50

AULA MEDIA

PLENARY LECTURE

Iva Tolić

Mechanobiology of Mitosis: Visualizing, Manipulating, and Scaling the Mitotic Spindle

LIFE SCIENCE · 40 min + 10 min discussion

Chair: Petra Peharec Štefanić

09:50-10:10

FAZOS ATRIUM

SHORT COFFEE BREAK, EXHIBITION AND ROOM CHANGE

20 min · Coffee breaks sponsored by ITR-LAB

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LIFE SCIENCE

AULA ALTA

Cell Dynamics, Cytoskeleton and Inflammation

10:10-10:35

Edi Rođak

INVITED

Inflammation Expands a Previously Unrecognized Osteoclast Progenitor Population

10:35-10:50

Lovro Mihajlović

SELECTED

Confocal Microscopy Reveals F-Actin Remodelling Associated with Hepatic Lipid Accumulation Following Gonadectomy and Aging

10:50-11:05

Ivana Ilić

SELECTED

Dermoscopy as an Important Tool in Everyday Clinical Practice and in the Diagnosis of Various Dermatological Entities

CHAIR

Maja Herak Bosnar

MATERIAL SCIENCE

AULA MEDIA

Functional Surfaces, Interfaces and Antibacterial Materials

10:10-10:35

Tin Klačić

INVITED

Atomic Force Microscopy: A Powerful Tool for Studying Polyelectrolyte Multilayers

10:35-10:50

Suzana Inkret

SELECTED

Designing Infection-Resistant Surfaces: Physico-Chemical and Antibacterial Characterization of Calcium Phosphates/Silver Nanoparticles Composite Coatings for Titanium Implants

10:50-11:05

Tihana Čizmar

SELECTED

Synthesis of Multicomponent Transition-Metal Alloys and Oxides for Dual Photocatalytic and Antibacterial Applications

CHAIR

Davor Kovačević

11:05-11:25

FAZOS ATRIUM

COFFEE BREAK AND SPONSOR EXHIBITION

20 min · Coffee breaks sponsored by ITR-LAB

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JUST COFFEE

11:25-12:10

AULA MEDIA

BRONZE SPONSOR PRESENTATIONS

11:25-11:40 **Nanosurf** (15 min)11:40-11:55 **ZEISS** (15 min)11:55-12:10 **AstraFokus** (15 min)

12:10-13:40

FAZOS ATRIUM

LUNCH BREAK

90 min

FRIDAY

18 SEPTEMBER 2026

Final sessions, closing and post-congress visit

LIFE SCIENCE

AULA ALTA

Digital, Clinical and Translational Microscopy

13:40-14:05

Krunoslav Vinicki

INVITED

Computational Imaging for Routine Pathology and Cytology: Aberration Calibration, Real-Time Sparse Deconvolution and Deep Learning-Assisted Acquisition

14:05-14:20

Igor Weber

SELECTED

Insight into the Intracellular Dynamics of Rac1 GTPases by Confocal Microscopy and Mathematical Modelling

14:20-14:35

Danijela Poljuha

SELECTED

Cytotoxic and Genotoxic Activity of Invasive Alien Plant Extracts Reveals Their Selective Antitumor Potential in Human Cell Lines

CHAIRS

Tatjana Belovari and Nikola Bijelić

MATERIAL SCIENCE

AULA MEDIA

Applied Microscopy in Cultural Heritage and Textiles

13:40-14:05

Helena Otmačić Čurković

INVITED

Corrosion of Archaeological and Art Objects: Combined Electrochemical, Microscopic and Spectroscopic Studies

14:05-14:20

Jelena Macan

SELECTED

Light and Electron Microscopy in Research of Historical Papers

14:20-14:35

Monika Vyšanská

SELECTED

Advanced Light Microscopy and Digital Image Analysis in Textile Structure Characterization

CHAIRS

Davor Kovačević and Bruno Komazec

14:40-15:00

AULA MEDIA

AWARDS AND CLOSING CEREMONY

Best poster award, acknowledgements and official closing of CMC2026.

15:00-15:30

LUGGAGE COLLECTION AND BUS BOARDING

Participants joining the post-congress visit should place luggage in the designated bus compartment.

15:30

DEPARTURE FROM OSIJEK

Bus to Zagreb via a Slavonian winery.

16:00-16:40

PG BRZICA IVO - WINERY VISIT AND TASTING

Guided tasting of local wines accompanied by traditional Slavonian products.

19:30-20:00

ESTIMATED ARRIVAL IN ZAGREB

Final arrival time will depend on traffic conditions.



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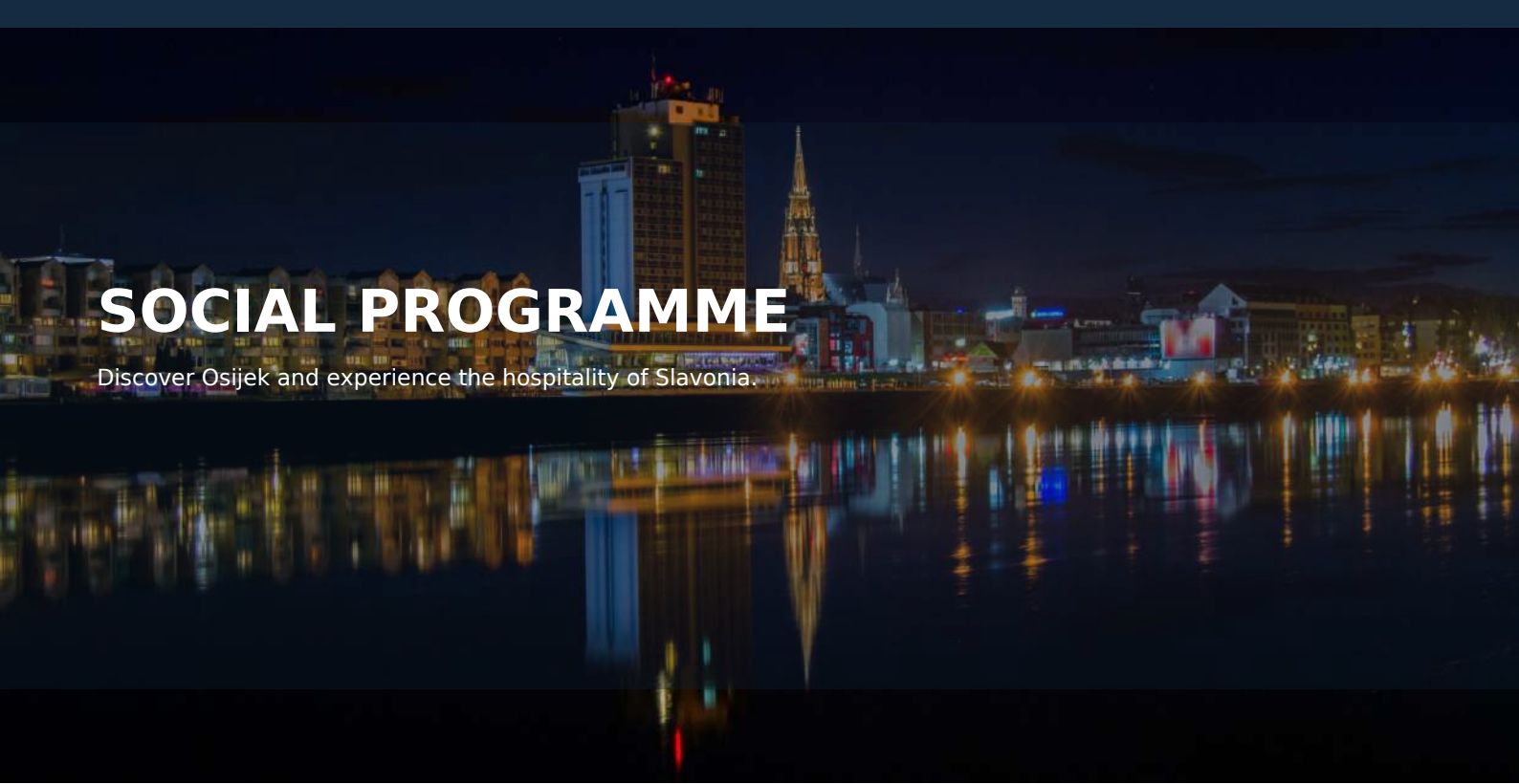
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SOCIAL PROGRAMME

Discover Osijek and experience the hospitality of Slavonia.

WED
14:30-16:00

Pre-Congress Activities

Choose between a guided Walking Tour of Osijek and a visit to the iMScope TRIO Mass Microscope. Advance registration is required.

WED
18:00-21:00

Welcome Reception • FAZOS Atrium

Meet colleagues in a relaxed atmosphere and enjoy authentic local food presented by plodovi.hr.

THU
FROM 19:00

CMC2026 Gala Dinner • Hotel Osijek

A memorable congress evening with dinner, informal conversation and the microscopy community.

FRI
16:00-16:40

PG Brzica Ivo • Optional Winery Visit

A tasting of local wines accompanied by traditional regional products before departure.

Meeting points and final transport details will be communicated to registered participants.



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POSTER PRESENTATIONS

Thursday, 16:45-18:00 · FAZOS Atrium

Presenting authors are underlined

P1

Leaf anatomy and ultrastructural characteristics of the endemic *Seseli tomentosum* Vis.: insights into species-specific adaptations

Elma Vuko; Ivana Bočina; Juraj Kamenjarin; Sanja Radman; Željana Fredotović

P2

Dark-Field Microscopy-Based Tracking of *Dictyostelium discoideum* Cells Lacking the Small GTPase Rac1 Isoforms

Sara Cerovski; Marija Šimić; Vedrana Filić; Igor Weber

P3

Development of hybrid TiO₂ nanoplates-based antimicrobial coatings for stainless steel surfaces

Irena Ivanišević; Ina Erceg; Vida Strasser; Maja Dutour Sikirić

P4

Possible alternative BPM2 isoforms influence the subcellular localization of target proteins

Mateja Jagić; Gaj Keresteš; Sandra Vitko; Paula Štancl; Emma Stepinac; Karlo Miškec; Marta Frlin; Rosa Karlić; Zdravko Lorković; Frédéric Berger; Željka Vidaković-Cifrek; Dunja Leljak-Levanić; Nataša Bauer

P5

From Silica to Apple Skin: AFM Insights into Roughness and Smoothing Effect of Polyelectrolyte Multilayer

Katarina Jerin; Tin Klačić; Davor Kovačević

P6

Morphology and Charge Transport of TiO₂ Electron Transport Bilayers Modified with Transition Metal Dichalcogenide Nanotubes

Lucija Klobučar; Vedran Kojić; Stjepan Dolić; Krunoslav Jurać; Alla Zak; Alexander Laikhtman; Andreja Gajović

P7

Towards ultra-rapid TEM sample processing

Magdalena Knapp; Elio Hobmayer; Lena Reberz; Peter Ladurner; Anna Seybold

P8

Incidental Bile Duct Hamartoma (Von Meyenburg Complex) Identified During Forensic Autopsy

Robert Mujkić; Mladen Ugljarević; Nenad Čekić; Darija Šnajder Mujkić; Karla Rožac; Ivana Ilić

POSTER PRESENTATIONS - CONTINUED

Thursday, 16:45-18:00 · FAZOS Atrium

Presenting authors are underlined

P9

Combined effects of nanoplastic exposure and salinity stress on marine microalgal physiology and cell surface properties

Nives Novosel Vlašić; Petra Vukosav; Tea Mišić Radić; Bruno Komazec; Petra Peharec Štefanić

P10

Variation in petal epidermal cell morphology in *Primula elatior* cultivars with different flower colours

Tatjana Prebeg; Paula Seuček; Mia Dujmović; Mihael Kušen; Dario Kremer; Jana Šic Žlabur

P11

Correlating Microstructure and Magnetic Domain Evolution in NdFeB Micromagnets Using Lorentz TEM

Sergej Ražnjević; Vinko Sršan; Nika Gračanin; Sašo Šturm

P12

Potential of Dutch elm disease fungus *Ophiostoma novo-ulmi* for biosynthesis of selenium nanoparticles

Vedran Rušec; Zorana Katanić; Vlatka Gvozdić; Elvira Kovač-Andrić; Ljiljana Krstin; Dragica Suknović; Ina Erceg; Ivna Štolfa Čamagajevac

P13

SEM-EDS Characterization of Ottoman Gold Coins

Amra Salčinović Fetić; Kerima Hrvat

P14

From Ultrastructure to Volume EM: 3D Electron Microscopy Approaches in Invertebrate Systems

Magdalena Knapp; Lena Reberz; Ute Rothbächer; Harald Hausen; Anna Seybold

P15

Hepatic Collagen Deposition, Oxidative Status, and Lipid Metabolism Following Alendronate and Standardized Hop Extract Treatment in Ovariectomized Rats

Nika Srb; Edi Rođak; Robert Grgac; Željko Debeljak; Ivana Ilić; Nada Oršolić; Nikola Bijelić

P16

Bio-Based Tannic Acid and Phytic Acid Coatings for Multifunctional Textiles

Karlo Vojtkuf; Helena Biljanić; Jelena Kosanović; Katarina Marušić; Nives Matijaković Mlinarić

P17

Microplastics Modulate the Toxicity of CTAB-Coated Silver Nanoparticles in *Chlorella vulgaris*: Evidence from Oxidative Stress and Ultrastructural Changes

Dona Vuković; Bruno Komazec; Petra Peharec Štefanić

P18

Microplastics Modulate Silver Nanoparticle-Induced Oxidative Stress in *Chlorella vulgaris*: TEM Insights into Particle-Cell Interactions

Bruno Komazec; Kristina Gilman; Petra Peharec Štefanić



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CMC2026

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PRACTICAL INFORMATION

Key details for participants and presenters

VENUE

Faculty of Agrobiotechnical Sciences Osijek (FAZOS)
Vladimira Preloga 1 · 31000 Osijek · Croatia

ROOMS

Aula Magna: opening ceremony and the first plenary lecture on Wednesday.
Aula Alta: Life Science parallel sessions.
Aula Media: all remaining plenary lectures, sponsor presentations, Material Science parallel sessions and the closing ceremony.
FAZOS Atrium: registration, posters, coffee and lunch breaks, sponsor exhibition and welcome reception.

ORAL PRESENTATIONS

Plenary: 40 + 10 min · Invited: 20 + 5 min · Selected: 12 + 3 min. Speakers are kindly requested to keep strictly to the allocated time.

POSTERS

70 × 100 cm · portrait orientation. Poster setup takes place on Wednesday, 15:30-17:00. Presenters should attend the dedicated session on Thursday, 16:45-18:00.

REGISTRATION DESK

The registration desk and congress staff will be available in the FAZOS Atrium throughout the scientific programme.

RETURN BUS

Bus boarding begins on Friday at 15:00. Departure from Osijek is at 15:30, followed by the optional PG Brzica Ivo winery visit.

CONTACT

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MICROSCOPY AND ANALYSIS

ITR-LAB is a Slovenia-based specialist in advanced microscopy, analytical instrumentation, sample preparation and laboratory equipment. The company provides integrated solutions for electron microscopy and related scientific workflows, including Thermo Fisher Scientific scanning and transmission electron microscopes, DualBeam and cryo-TEM systems, analytical technologies from Oxford Instruments and Gatan, in situ microscopy solutions, scientific cameras, spectrographs, confocal and light microscopy systems, and advanced image-analysis software. Its broad technology portfolio supports applications across materials science, nanotechnology, life sciences, biomedical research and industrial quality control.

COMPLETE LABORATORY WORKFLOWS

The microscopy portfolio is complemented by advanced sample-preparation equipment and consumables from manufacturers such as Quorum Technologies, Fischione Instruments and Micro to Nano. ITR-LAB also provides laboratory solutions including biosafety cabinets, CO₂ incubators, laminar-flow workstations, ultra-low-temperature freezers and cryogenic storage equipment. By combining imaging, analysis, sample preparation and laboratory infrastructure, the company can support complete workflows from initial specimen preparation and instrument selection to high-resolution characterisation, data interpretation and secure long-term sample storage.

SERVICE AND LONG-TERM SUPPORT

In addition to supplying state-of-the-art instrumentation, ITR-LAB places strong emphasis on long-term customer support. Its services include instrument installation, on-site user training, method implementation, validation, inspection, calibration, software and hardware upgrades, fault diagnostics, repair and preventive maintenance. The company works closely with research institutions, universities and industrial laboratories to identify solutions tailored to their scientific, technical and operational requirements. Through specialised technical expertise, responsive service and partnerships with leading international manufacturers, ITR-LAB supports reliable laboratory performance and the adoption of advanced microscopy and analytical technologies throughout Slovenia, Croatia and the wider region.

SILVER SPONSOR PROFILES

Scientific instrumentation, microscopy and analytical technologies



SILVER SPONSOR

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JEOL designs and manufactures scientific instruments for high-level research and development activities. JEOL products and services enable researchers to pursue a variety of R&D applications that require high-resolution imaging and analytical capabilities, such as observation and analysis, environmental science, information technology, semiconductor production, biotechnology, nanotechnology and a broad range of industrial endeavours.

Experts working in medicine, biology, biochemistry, agriculture, materials science, metallurgy, ceramics, chemistry, petroleum, pharmacy, semiconductors and electronic materials have been using JEOL products for more than 65 years. JEOL's new products are easier to use than ever before and contribute to a high level of quality assurance and quality control during the production process.

Its fields of application are diverse: sample preparation (Cross Section Polisher, Ion Slicer), nanotechnology (SEM, TEM, Auger, FIB, etc.), environmental science, medicine and life sciences (NMR, EPR, mass spectrometry, etc.). With 3,000 employees in more than 80 countries, JEOL Ltd. is the world leader in electron microscopy. This position drives the company to innovate continuously and work closely with its customers through dynamic partnerships that address emerging challenges.

For more information about its products, please visit the JEOL website or contact a JEOL office or authorised agent in your area.

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SpeciOⁿ

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SPECION
Specion Microscopy Hub

Specion Slovenia (www.specion.si) and Specion Croatia (www.specion.hr) are part of the **Specion Microscopy Hub**, a specialised provider of advanced solutions for microscopy, sample preparation and analytical technologies. With more than 30 years of experience, Specion supports research institutions, universities, industrial laboratories and life sciences facilities in implementing modern imaging and analytical methods.

As an authorised partner of **Leica Microsystems** and **Hitachi High-Tech**, Specion provides comprehensive solutions spanning the entire workflow, from sample preparation to optical, confocal and electron microscopy, as well as image analysis. Its portfolio includes technologies for materials research, nanotechnology, biological and pharmaceutical sciences, and industrial quality control, including confocal and light-sheet microscopy, correlative and cryogenic methods, and solutions for spatial biology.

In addition to supplying state-of-the-art instrumentation, Specion provides **application support, training, method optimisation and expert technical service**. Its goal is to help customers translate advanced technologies into reliable workflows and meaningful scientific results.

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NOTES

Ideas, contacts and follow-up

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