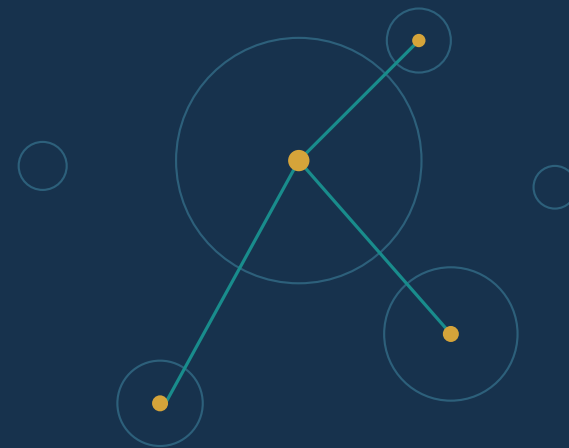


5th Croatian Microscopy Congress

CMC2026

16-18 September 2026
Faculty of Agrobiotechnical Sciences Osijek (FAZOS)
Osijek, Croatia



PRELIMINARY PROGRAMME

WEDNESDAY

16 SEPTEMBER 2026 | Arrival, opening and welcome reception

15:00-16:15

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 will be sent to all participants. Advance registration is required for both activities, and capacity for the microscope visit is limited. Meeting points and transfer details will be announced separately.

16:00-17:35

REGISTRATION AND POSTER SETUP

Registration desk and poster mounting at FAZOS. Welcome coffee available.

17:40-18:00

OPENING CEREMONY

Welcome address: **Petra Peharec Štefanić**

18:00-18:50

PLENARY LECTURE

Sandra Bischoff

SEM in Textile Science: Advances in Topological, Morphological and Chemical Characterization

MATERIAL SCIENCE | 40 min lecture + 10 min discussion | Chair: Jelena Macan

19:00-22:00

WELCOME RECEPTION

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

Posters may remain displayed throughout the scientific programme. Detailed poster numbering and presenter attendance instructions will be published separately.

THURSDAY

17 SEPTEMBER 2026 | Scientific programme - morning

09:00-09:50

PLENARY LECTURE

Marie Vancova

Volume Electron Microscopy: What It Can Reveal and What It Takes
LIFE SCIENCE | 40 min lecture + 10 min discussion | Chair: Bruno Komazec

09:50-10:10

SHORT COFFEE BREAK, SPONSOR EXHIBITION AND ROOM CHANGE (20 min)

10:10-11:05

PARALLEL SCIENTIFIC SESSIONS

LIFE SCIENCE

Nanoscale and Ultrastructural Organization of Cells

10:10-10:35

Agnes Kittel **INVITED**

Changing Significance of Electron Microscopy in the Investigation of Extracellular Vesicles

10:35-10:50

Maja Herak Bosnar **SELECTED**

Defining the Sequence Signals Governing NME6 Mitochondrial Targeting

10:50-11:05

Dunja Igrec **SELECTED**

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

CHAIRS

Igor Weber and Petra Peharec Štefanić

MATERIAL SCIENCE

Nanoengineering and Nanostructured Materials

10:10-10:35

Nina Daneu **INVITED**

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

10:35-10:50

José M. Vila-Fungueiriño **SELECTED**

TEM-Assisted Catalyst Design in ZIF-67 NanoMOFs: CTAB- and Ni-Tuning for Efficient Activation in Water

10:50-11:05

Vedran Kojić **SELECTED**

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

CHAIR

Andreja Gajović

11:05-11:25

COFFEE BREAK AND SPONSOR EXHIBITION (20 min)

11:25-12:30

INDUSTRY PRESENTATIONS

11:25-11:55 ITR-LAB - Gold Sponsor Presentation (30 min)

11:55-12:15 SPECION - Silver Sponsor Presentation (20 min)

12:15-12:30 Ansar-Analitika - Bronze Sponsor Presentation (15 min)

12:30-14:10

LUNCH BREAK (100 min)

THURSDAY

17 SEPTEMBER 2026 | Scientific programme - afternoon and gala dinner

14:10-15:00

PLENARY LECTURE

Sašo Šturm

Transmission Electron Microscopy of Nanoparticle Nucleation, Growth and Dissolution: From Stardust to Nanoconfined Electrochemistry
MATERIAL SCIENCE | 40 min lecture + 10 min discussion | Chair: Andreja Gajović

15:00-15:15

COFFEE BREAK AND SPONSOR EXHIBITION (15 min)

15:15-15:50

INDUSTRY PRESENTATIONS

15:15-15:35 SCAN - Silver Sponsor Presentation (20 min)

15:35-15:50 Biosistemi - Bronze Sponsor Presentation (15 min)

15:50-16:00

ROOM CHANGE (10 min)

Transition to the parallel session rooms.

16:00-16:40

PARALLEL SCIENTIFIC SESSIONS

LIFE SCIENCE

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

Bruno Komazec **SELECTED**

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

CHAIR

Danijela Poljuha

MATERIAL SCIENCE

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

DEDICATED POSTER SESSION

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

19:00-LATE

GALA DINNER

Hotel Osijek | Formal congress dinner and evening programme.

FRIDAY

18 SEPTEMBER 2026 | Scientific programme - morning

09:00-09:50	PLENARY LECTURE Iva Tolić Mechanobiology of Mitosis: Visualizing, Manipulating, and Scaling the Mitotic Spindle LIFE SCIENCE 40 min lecture + 10 min discussion Chair: Petra Peharec Štefanić	
09:50-10:10	SHORT COFFEE BREAK, SPONSOR EXHIBITION AND ROOM CHANGE (20 min)	
10:10-11:05	PARALLEL SCIENTIFIC SESSIONS	
LIFE SCIENCE Cell Dynamics, Cytoskeleton and Inflammation		MATERIAL SCIENCE Functional Surfaces, Interfaces and Antibacterial Materials
10:10-10:35	Edi Rođak INVITED Inflammation Expands a Previously Unrecognized Osteoclast Progenitor Population	10:10-10:35 Tin Klačić INVITED Atomic Force Microscopy: A Powerful Tool for Studying Polyelectrolyte Multilayers
10:35-10:50	Igor Weber SELECTED Insight into the Intracellular Dynamics of Rac1 GTPases by Confocal Microscopy and Mathematical Modelling	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	Lovro Mihajlović SELECTED Confocal Microscopy Reveals F-Actin Remodelling Associated with Hepatic Lipid Accumulation Following Gonadectomy and Aging	10:50-11:05 Tihana Čizmar SELECTED Synthesis of Multicomponent Transition-Metal Alloys and Oxides for Dual Photocatalytic and Antibacterial Applications
CHAIR	Maja Herak Bosnar	CHAIR Davor Kovačević
11:05-11:25	COFFEE BREAK AND SPONSOR EXHIBITION (20 min)	
11:25-12:10	BRONZE SPONSOR PRESENTATIONS 11:25-11:40 Nanosurf - Bronze Sponsor Presentation (15 min) 11:40-11:55 Zeiss - Bronze Sponsor Presentation (15 min) 11:55-12:10 Astrafokus - Bronze Sponsor Presentation (15 min)	
12:10-13:40	LUNCH BREAK (90 min)	

FRIDAY

18 SEPTEMBER 2026 | Final scientific sessions, closing and post-congress visit

13:40-14:35 PARALLEL SCIENTIFIC SESSIONS

LIFE SCIENCE Digital, Clinical and Translational Microscopy		MATERIAL SCIENCE Applied Microscopy in Cultural Heritage and Textiles	
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	13:40-14:05	Helena Otmačić Čurković INVITED Corrosion of Archaeological and Art Objects: Combined Electrochemical, Microscopic and Spectroscopic Studies
14:05-14:20	Ivana Ilić SELECTED Dermoscopy as an Important Tool in Everyday Clinical Practice and in the Diagnosis of Various Dermatological Entities	14:05-14:20	Jelena Macan SELECTED Light and Electron Microscopy in Research of Historical Papers
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	14:20-14:35	Monika Vyšanská SELECTED Advanced Light Microscopy and Digital Image Analysis in Textile Structure Characterization
CHAIRS Tatjana Belovari and Nikola Bjelić		CHAIRS Davor Kovačević and Bruno Komazec	

14:40-15:00 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 their luggage in the designated bus luggage 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.

APPROX. 19:30-20:00 ESTIMATED ARRIVAL IN ZAGREB

Final arrival time will depend on the confirmed winery and traffic conditions.