

Program Booklet

SCANDEM 2023

June 12-15, Uppsala, Sweden

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Conference program - Oral sessions

Monday,	12 th	of	June
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12:00 - 13:30	Registration, lunch and exhibition
13:30 - 15:00	Plenary session (Eva von Bahr hall, Å100195, chair K. Leifer)
13:30 - 14:15	Emergent Phonon Phenomena at Interfaces Probed by Vibra-
	tional Electron Microscopy (Xiaoqing Pan, p.13)
14:15 - 15:00	Cryo-Electron Tomography or the Power of Seeing the Whole
	Picture (Wolfgang Baumeister, p.14)
15:00 – 15:30	Coffee and exhibition
15:30 – 17:00	Parallel sessions

MS1: Refinement and development of microscopy techniques

(Eva von Bahr hall, Å100195, chair J. Kotakoski)

- 15:30 16:00 (invited) Multidimensional TEM characterization of electric fields and structure based on full momentum resolution (*Knut Müller-Caspary*, p.15)
- 16:00 16:15 Electron beam shaping and aberration correction using optical fields (*Andrea Konečná*, *p.16*)
- 16:15 16:30 Hypermodal Data Fusion: a data-driven approach for tackling contemporary nanoscale challenges (*Thomas Thersleff, p.18*)
- 16:30 16:45 Analysis of magnetic structure in ferrimagnetic Ti-doped barium hexaferrite by analytical EMCD method (*Hitoshi Makino*, *p*.20)
- 16:45 17:00 Machine-Learning Assisted Exit-wave Reconstruction for Quantitative Feature Extraction (*Jakob Schiøtz*, *p*.22)

LS1: Image analysis and data visualization

(Sonja Lyttkens hall, Å101121, chair I.-M. Sintorn)

- 15:30 16:00 (invited) Spatial transcriptomics (Carolina Wählby, p.24)
- 16:00 16:20 Texture Segmentation, Surface Detection, and Fast Local Thickness for Quantification of Bone Microstructure (*Vedrana Andersen Dahl*, p.25)
- 16:20 16:40 Identifying bird eggshell by scanning electron microscopy (SEM) (*Kessara Anamthawat-Jonsson*, *p*.27)
- 16:40 17:00 TEM Image Enhancement From Multiple Short Exposure Images (*Andrea Behanova*, p.29)
- 17:00 19:00 **Reception & poster session** (Evelyn Sokolowski hall, Å101136)
- 19:00 SCANDEM board meeting (Å101025)











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Come and visit us at **Booth I-1** where we will showcase several Nikon microscopes like the fully motorized inverted research model Ti2-E, the upright material microscope LV100ND and the "workhorse" stereo microscope SMZ800N. In addition we will have the vibratory polisher QPOL VIBRO and the hardness tester Q60A+, both from QATM, as well as the fully motorized microtome CUT6062 from Slee Medical.



Nikon Eclipse



Nikon Eclipse LV150N / LV100ND



Nikon SMZ800N



QATM Qpol Vibro



QATM QNESS 60 A/A+ EVO



SLEE Medical CUT 6062



- 8:30 10:00 **Plenary session** (Eva von Bahr hall, Å100195, chair I.-M. Sintorn)
- 8:30 9:15 Spatially resolved single-cell genomics & cell atlas of the brain (*Xiaowei Zhuang*, *p*.31)
- 9:15 10:00 Electron microscopy in infectious diseases a medical perspective (*Michael Laue*, *p*.32)
- 10:00 10:30 Coffee and exhibition
- 10:30 12:00 **Parallel sessions**

MS2: Studies for structure and strain in materials

(Eva von Bahr hall, Å100195)

- 10:30 11:00 (invited) 4DSTEM used to study Precipitates in age-hardenable Aluminium Alloys (*Randi Holmestad*, *p.33*)
- 11:00 11:15 Structural mechanism of emergent magnetic properties in patterned SrRuO₃ quantum structures (*Hongguang Wang*, p.34)
- 11:15 11:30 Dimensionality control of Pt on CeO₂ through support interaction (*Henrik Eliasson*, *p*.36)
- 11:30 11:45 Tracking the orientation of cellulose nanofibers using Scanning Electron Diffraction (*Mathias Nero*, *p.38*)
- 11:45 12:00 Polymorph engineering and radiation tolerance in β -Ga₂O₃ (*Javier García Fernández*, p.40)

LS2: Beyond the resolution revolution - new challenges in cryo-EM/ET

(Sonja Lyttkens hall, Å101121, chair L. Sandblad)

- 10:30 11:00 (invited) TBA (*Kay Grunewald, p.42*)
- 11:00 11:20 Primordial capsid and spooled ssDNA genome structures unravel ancestral events of eukaryotic viruses (*Anna Munke*, p.43)
- 11:20 11:40 Mitochondrial gene expression system (Martin Hällberg, p.44)
- 11:40 12:00 Quantitative TEM reveals novel stress response mechanism in yeast (*Katharina Keuenhof, p.45*)
- 12:00 13:30 Lunch and exhibition
- 12:30 13:15 SCANDEM annual assembly (Sonja Lyttkens hall, Å101121)



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Tuesday, 13th of June (afternoon sessions)

13:30-15:00 Parallel sessions

MS3: Electron microscopy in-situ and in-operando techniques

(Eva von Bahr hall, Å100195)

- 13:30 14:00 (invited) Real Time Investigation of Crystal Growth and Nucleation of Low-dimensional Inorganic Nanostructures (*Kimberly Dick Thelander, p.*46)
- 14:00 14:15 Solid State Dynamics Visualization by In Situ Electron Microscopy (*Jakob B. Wagner, p.47*)
- 14:15 14:30 Revealing Surface Restraint-Induced Hexagonal Pd Nanocrystals via In Situ Transmission Electron Microscopy (*You Ruiyang*, p.49)
- 14:30 14:45 Emergence of ferromagnetic phase in FeRh studied by in-situ Electron Magnetic Circular Dichroism with nm-sized probe (*Jan Hajduček*, p.51)
- 14:45 15:00 In situ microscopy study of novel transition metal diborides (*Palisaitis Justinas*, *p.53*)

LS3: Correlative light and electron microscopy

(Sonja Lyttkens hall, Å101121, chair M. Hällberg)

- 13:30 14:00 (invited) Correlative light, electron and X-ray microscopy: finding the needle in the haystack (*Marie-Charlotte Domart*, *p*.55)
- 14:00 14:20 Correlative light and electron microscopy (*Linda Sandblad*, *p.*56)
- 14:20 14:40 Correlative light-electron microscopy of autophagosome biogenesis in photodamage-induced mitophagy (*Eeva-Liisa Eskelinen*, *p.58*)
- 14:40 15:00 Focused Ion Beam Scanning Electron Microscopy (FIB-SEM) Imaging and micro-manipulation (*Linda Sandblad*, p.59)
- 15:00 15:30 Coffee and exhibition
- 15:30 17:00 **Company presentations** (Eva von Bahr hall, Å100195)
- 17:00 18:00 **Early carrer session** (Heinz-Otto Kreis hall, Å101195)
- 19:00 Conference Dinner (restaurant Sven Dufva)

Cellular ultrastructure in 3D context







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Wednesday, 14th of June (morning sessions)

- 8:30 10:00 **Plenary session** (Eva von Bahr hall, Å100195, chair J. Rusz)
- 8:30 9:15 Findings from the happy marriage between low-dimensional materials and low-voltage atomically-resolved TEM (*Ute Kaiser*, *p.61*)
- 9:15 10:00 In situ TEM techniques for controlling structure and interfaces in 2D material (*Frances M. Ross, p.62*)
- 10:00 10:30 Coffee and exhibition
- 10:30 12:00 **Parallel sessions**

MS4: Functional materials

(Eva von Bahr hall, Å100195, chair J. Majka)

- 10:30 11:00 (invited) Unraveling the structure-property relationship of adsorbents and photocatalysts derived from 2D layered materials of natural and synthetic origin (*Jakub Matusik*, *p.63*)
- 11:00 11:15 Atomic Scale Observation of phase transition in NiFe₂O₄ (*Qi Wang, p.65*)
- 11:15 11:30 Practical analytical limitation of energy and wavelength dispersive spectroscopies a case of REE-Pb phosphates (*Sordyl Julia*, *p.67*)
- 11:30 11:45 Neutral Atom Microscopy: Large Area Imaging of Nanoscale Topographies (*Paul Dastoor*, *p.69*)
- 11:45 12:00 Domain walls properties of lead-free BiFeO3 ferroelectrics under static and dynamic conditions (*Drazic Goran*, *p.71*)

LS4: Ultrastrucutral pathology and disease understanding

(Sonja Lyttkens hall, Å101121, chair A. Dragomir)

- 10:30 11:00 (invited) New insights into the molecular and cellular composition of the brain barriers (*Christer Betsholtz*, *p.73*)
- 11:00 11:20 Physiological role of ATP in the inner ear (*Sonal Prasad*, p.74)
- 11:20 11:40 3D optical kidney pathology (*Hans Blom, p.75*)
- 11:40 12:00 AuNP Loaded Liposomes: A tool for characterizing the uptake of soft nanomaterials in biological systems via TEM (*Paul Kempen*, *p.76*)
- 12:00 13:30 Lunch and exhibition



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Wednesday, 14th of June (afternoon sessions)

13:30-15:00 Parallel sessions

MS5: Microscopy of soft and beam-sensitive materials

(Eva von Bahr hall, Å100195, chair T. Thersleff)

- 13:30 14:00 (invited) In and ex situ (S)TEM manipulation of 2D materials (*Jani Kotakoski*, p.78)
- 14:00 14:15 Nanofluidic liquid phase transmission electron microscopy (*Murat Nulati Yesibolati*, *p.79*)
- 14:15 14:30 3D Electron Diffraction / MicroED for Crystal Structure Determination (*Hongyi Xu, p.81*)
- 14:30 14:45 Imaging hard and soft materials with atoms (*David Ward*, p.82)
- 14:45 15:00 Zeolite intergrowth revealed using 4D-STEM (*Evgeniia Ikonnikova*, p.84)

LS5: Automated and AI based microscopy imaging and analysis (Sonja Lyttkens hall, Å101121)

- 13:30 14:00 (invited) Data-driven microscopy allows for automated contextspecific acquisition of high-fidelity image data (*Pontus Nordenfelt*, *p.86*)
- 14:00 14:20 High-content imaging-based serology test for SARS-CoV-2 (*Lassi Paavolainen*, *p.87*)
- 14:20 14:40 Automated Imaging and Analysis of Pharmaceutical Particles Using a Tabletop Low Voltage TEM (*Mathieu Colomb-Delsuc*, p.89)
- 14:40 15:00 Massively multiplexed single-molecule fluorescence microscopy (*Javier Aguirre Rivera*, *p*.91)
- 15:00 15:30 Coffee and exhibition



TEM Cameras and Applications



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Wednesday, 14th of June (afternoon sessions, cont.)

15:30-17:00 Parallel sessions

MS6: Use of spectroscopic techniques in material science and geoscience (Eva von Bahr hall, Å100195, chair J. Rusz)

- 15:30 16:00 (invited) Advances in high energy and spatial resolution STEM EELS (*Demie Kepaptsoglou*, *p*.92)
- 16:00 16:15 Exploring Topological Features in Materials: Advancements and Challenges in Electron Microscopy Characterization (*Juan-Carlos Idrobo*, *p*.94)
- 16:15 16:30 Unravelling oxidation mechanisms in Cu nanoparticles through in-situ imaging and spectroscopy and the role of the electron beam in environmental STEM (*Shima Kadkhodazadeh*, p.95)
- 16:30 16:45 Achromatic atomic-plane resolved imaging of electron energy-loss spectroscopy (*Bin Lin*, *p*.97)
- 16:45 17:00 Band gap measurements of aluminum and indium doped Ga₂O₃ multilayers (*Annett Thøgersen*, *p*.99)

LS6: In situ and live cell microscopy

(Sonja Lyttkens hall, Å101121)

- 15:30 16:00 (invited) Live-cell imaging of sub-membrane signalling and secretion (*Anders Tengholm*, *p*.101)
- 16:00 16:20 Electron Microscopy of the Human Cochlea and Why the Crocodilians Hear So well (*Helge Rask-Andersen, p.102*)
- 16:20 16:40 Dissecting the viral fusion and entry pathways of pandemic viruses, using fluorescence microscopy and reporter dyes (*Steinar Mannsverk*, p.104)
- 16:40 17:00 Depth and element sensitive scanning nuclear microscopy in Uppsala (*Gyula Nagy, p.*106)
- 17:30 Social program

Company presentation session

Company	time
Oxford Instrument	15:30
JEOL	15:34
Nordic Nano (Tescan)	15:38
Micromedic	15:42
Bergman Labora (Nikon)	15:46
Spectral (Hitachi)	15:50
Xspect Solutions	15:54
ZEISS	15:58
Thermofisher	16:02
Rowaco	16:06
Systron	16:10
Kimmy Photonics	16:14
Blue Scientific	16:18
CEOS (no Booth)	16:22
Abberior	16:26
Caspilor	16:30
EDAX	16:34
SmarAct	16:38
GammaData	16:42
EMSIS	16:46
Quantum Detectors	16:50
SciSpot	16:54
DensSolutions	16:58
Quantifoil	17:02
DECTRIS (no Booth)	17:06
Parksystems	17:10
QuantumDesigns	17:14

Conference program - Poster contributions

- P01 Large volume high resolution 3D characterization of beam sensitive soft materials using multi-ion source PFIB technique under cryogenic conditions (*Min Wu*, *p*.108)
- P02 In situ control and observation of chemical reaction inside a reaction capsule in SEM DualBeam (*Min Wu, p.109*)
- P03 Effect of decoration route on the nanomechanical, adhesive, and force response of nanocelluloses An in situ force spectroscopy study (*Jing Li*, *p*.110)
- P04 MerlinEM, Hybrid Pixel Array Counting Detector for Transmission Electron Microscopy (*Klyszejko, Adriana L., p.112*)
- P05 Effects of temperature for magnon detection in STEM (Castellanos-Reyes, p.113)
- P06 Determination of radiation tolerance of crystalline ZIF-8 metal organic framework in atomic scale EM experiments. (*Banerjee, Pritam, p.115*)
- P07 Optical properties and structure relationship in ZnO:Fe with inversion domain boundaries and ZnFe₂O₄/ZnO heterostructures (*García Fernández, Javier, p.117*)
- P08 Nanochannel Liquid Phase TEM 3D ED / MicroED (Edward Broadhurst, p.119)
- P09 Atomic structure and magnetic circular dichroism of individual edge dislocation by electron magnetic circular dichroism (*Zhang, Yuxuan, p.120*)
- P10 Development of in situ (S)TEM cooling, biasing and heating system for atomic resolution imaging (*Pivak Yevheniy*, p.122)
- P11 Metal electrodeposition/stripping and 4D STEM analysis via operando liquid phase TEM (*Pivak Yevheniy, p.*123)
- P12 High-Resolution Electron Energy Loss Spectroscopy Mapping of Confined Electric Fields in Topology-Optimized Photonic Cavities (*Seifner, Michael, p.125*)

- P13 Computation of generalised oscillator strengths for the simulation and quantification of energy loss spectra (*Guzzinati*, *Giulio*, *p.*127)
- P14 Panta Rhei: a software framework for the acquisition of image and spectral data (*Guzzinati*, *Giulio*, *p*.129)
- P15 A Semiconductor-Type Segmented STEM Annular Dark-Field Detector (*Pirmin Kükelhan*, p.131)
- P16 A post-column imaging energy filter compatible with multiple detectors (*Pirmin Kükelhan*, p.133)
- P17 Optical dichroism in vortex electron energy loss spectroscopy on chiral particles (*Ošmera*, *Martin*, *p*.135)
- P18 Cold sprayed Aluminum-Quasicrystal Composite Coating: Bonding Mechanism Evaluation by SEM and TEM (*Jafari*, *Reza*, *p.137*)
- P19 Morphological changes of photothermal polymeric films during carbonization at different conditions for carbon materials production (*Anna Iurchenkova*, *p*.139)
- P20 In-situ S/TEM Visualization of Metal-to-Metal Hydride Phase Transformation of Magnesium Thin Films (*Krishnan, Gopi, p.140*)
- P21 Advancing phase characterization at the nanoscale by effortless multi-modal 4D-STEM applications (*Nemecek*, *Daniel*, *p*.142)
- P22 Interfacial structure and magnetic property at Triple-/Double- Perovskite heterojunctions (*Jie Ren*, p.143)
- P23 Unraveling the multilayer growth behavior of InGaAs nanowires using Insitu TEM (*Sjökvist*, *Robin*, *p*.145)
- P24 In-situ observations of size effects in GaAs nanowire growth (*Marnauza*, *Mikelis*, *p*.147)
- P25 Materials characterization using deep learning image analysis (*Nordqvist Sammy*, p.149)
- P26 Microscopic Heterogeneity of Plastic Strain and Lattice Rotation in Duplex Steel (*Fengxiang Lin, p.151*)
- P27 Heat Transport Properties of Au-Nanoparticles Supported by TiO₂: Insights from E(3)-Equivariant Machine Learning Potentials (*Cuauhtémoc Nuñez Valencia*, p.152)

- P28 Isotopic shifts of phonon bands studied by monochromated STEM simulations and experiments (*Rusz, Jan, p.154*)
- P29 A Comparative Study on EDX and XPS Elemental Analysis (*Leskinen, Jari, p.155*)
- P30 In-situ TEM study of nitrogen oxide removal (Fei Wang, p.156)
- P31 Electron Counted Spectrum Imaging Optimized for In-Situ Analysis (*Twesten, Ray, p.157*)
- P32 Plasmon-Enhanced Fluorescence of Site-Specifically Immobilized Single Upconversion Nanoparticles (*Yupeng Yang*, p.159)
- P33 Potential low-tech Zernike phase plate for soft-matter applications made from commercial carbon films (*Marcus Hufe*, *p.161*)
- P34 Progress in quantitative EMCD experiments (Ali, Hasan, p.163)
- P35 In-situ nanoscale dynamics of nanoparticles using variable temperature TEM imaging (*Zulfiqar*, *Abid*, *p.165*)
- P36 Measurement of EMCD signal on Fe layers with improved structural quality (*Sharath Kumar Manjeshwar Sathyanath*, p.167)
- P37 A new sampling paradigm for FRFPMS simulations of high energy resolution (STEM)-EELS experiments (*Zeiger, Paul, p.169*)
- P38 Magnetic Domain Structure of Ferromagnetic Steels Studied by Lorentz Microscopy and Magnetic Force Microscopy (*Honkanen, Mari, p.170*)
- P39 Colloidal gold transport in the Paleoproterozoic orogenic gold deposits: Outlining objectives of the PhD project (*Tapio Soukka*, p.172)
- P40 iDPC-STEM imaging as an important tool for structure determination of low dimensional nanoporous materials (*Willhammar*, *Tom*, *p*.173)
- P41 A Sample Preparation Methodology for In-Situ Liquid Transmission Electron Microscopy of Nanolaminated Materials (*Melike Mercan Yildizhan Özyar, p.*175)
- P42 Analysis of angle resolved low-loss electron energy-loss spectra of the dielectric BaTiO₃ (*Ignatans, Reinis, p.177*)
- P43 Impact of Electron Beam Irradiation on Carbon Black Oxidation (*Wahlqvist*, *David*, p.178)

- P44 Structure and Chemical Characterization of $ZnGe_xSn_{1-x}N_2$ for Solar Cell Applications (*Nguyen*, *Hao*, *p*.180)
- P45 The effects of heavy doping on the band structure of zinc oxide observed using momentum-resolved EELS (*Elgvin*, *Cana*, *p.182*)
- P46 Recent innovation in scanning electron microscope (SEM) in-situ extreme mechanics at the micro- and nanoscale (*Pero Renato*, p.184)
- P47 Exploring micro-scale fracture behavior in brittle thin films (*Mathews*, *Nidhin George*, *p.185*)
- P48 Rapid in-situ magnetic imaging of artificial spin ice using STEM-DPC (*Soland, Hedda Christine, p.187*)
- P49 Formation of translucent nanostructured zirconia ceramics (*Krisjanis Smits*, p.189)
- P50 Capsid structure of a fungal dsRNA megabirnavirus reveals its unidentified structures (*Wang*, *Han*, *p*.190)
- P51 Uncovering functions of unique structures in a mosquito totivirus-like virus (*Filipe, Diogo, p.*191)
- P52 Results from the Quantum C100, a Novel CMOS Detector Optimised for 100 keV Cryo Electron Microscopy (*Klyszejko*, *Adriana L.*, *p*.193)
- P53 3D electron diffraction of small molecules on the MerlinEM detector (*Klysze-jko, Adriana L., p.*195)
- P54 Crystallographic Data obtained from CryoEM Imaging (Crispin Hetherington, p.196)
- P55 An Automated Method for Quantifying Actomyosin Ring Dynamics in Drosophila Cellularization (*Korkiamäki, Riku, p.198*)
- P56 Comparison of the fundamental cell morphology of species in genus Mycobacteroides obtained from whole-mount ice-embedded cryo-TEM examination. (*Yamada*, *Hiroyuki*, p.200)

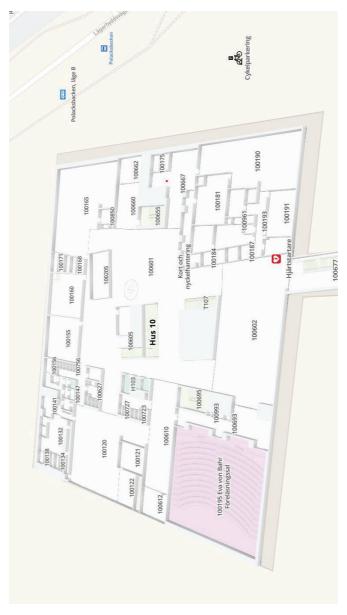
Workshop Program

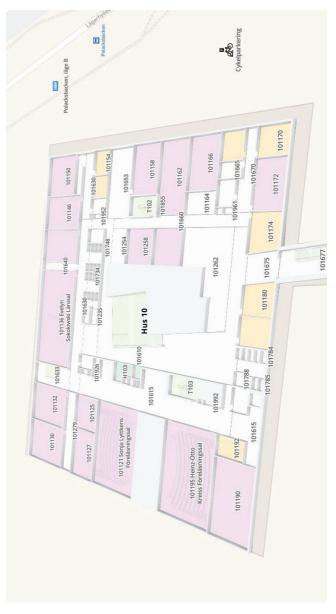
- Most workshops will be held in seminar rooms in the same building where the conference takes place.
- At several places in that building, you can find the room on room maps
- For all laboratories, the meeting point is 10 minutes before the start of the laboratory at Café Ångström. You will then be guided to the laboratory.

	Who	CEOS		CEOS		CEOS		
Material Science	Title	LAB:Quantitative EELS analysis using hybrid pixel camera		LAB:Quantitative EELS analysis using hybrid pixel camera		LAB:Quantitative EELS analysis using hybrid pixel camera		
	Where Title	Lab		Гар				
	Who	LEICA				Tescan		
Material Science	Where Title	Room Microstructural 101166 characterization of materials through LIBS (Laser-Induced Breakdown Spectroscopy)"		Room A Complete Experiment- Xspect 101166 to-Analysis Software with Design for Research Protoc Data Management to hips Facilitate High Performance Transmission Electron Microscopy Studies with Quantifiable Dose Measurement & Tracking		Room Effortless analytical 4D Tescan Lab 101166 STEM workflows		
	Where Title Who	Room SXES-panding Your Horizons: JEOL 1011S8 A Workshop for Soft and Hard Matter Aficionados				Room Introduction to Spectral, Spectral with 101158 Electrical characterization in Kleindiek; the SEM, EBIC, EBAC and Alemnis more; Recent innovation in SEM In situ Extreme Mechanical Testing		Room AFM in the SEM, dimensions Spectral with 101158 to the surface Alemnis; characterization; Volume EM Connectomx using an integrated
Cross Disciplinary	Ė	Introduction to TEM Zeiss lamella preparation utilizing the latest sample holders with focus on live SEM control of the various FIB processing steps.		Basic image processing Ida-Maria Sintorn, UU		High-resolution imaging in Zeiss three dimensions with ZEISS Atlas 5 nanotomograph		
	Where	Room 101150		101150		Room 101150		
15.06.2023	TIME	09:00 - 10:30	10:30 - 11:00	11:00 - 12:30	12:30 - 13:30	13:30 - 15:00	15:00:00 - 15:30	15:30- 17:00

15.06.2023		Life Science			Cross Disciplinary			Cross Disciplinary	
TIME	Where	Title	Who	Where Title		Who	Where Title	Title	Who
09:00 - 10:30	Room 101130	Introduction to Cryo-EM Thermo workflows followed by Fisher Tundra Live Demonstration Scientific	Thermo Fisher Scientific						
10:30 - 11:00									
11:00 - 12:30	Room 101130	Cryo TEMperature: Special JEOL Cool Techniques for High- Resolution Imaging of single particles	JEOL	Lab	LAB: Electron Probe Microanalyser: applications in Earth and materials sciences	Jaroslaw Majka, UU	Lab	Particle search and Oxford analysis with advanced Instru EDS ments	Oxford Instru ments
12:30 - 13:30									
13:30 - 15:00	Room 101130	Superresolution STED	Abberior	Room 101162	Room Exploring new analysis Caspilor 101162 possibilities with EBSD using Ametek partitioning, highlighting, and spherical indexing	Caspilor/ EDAX Lab Ametek	Lab	Particle search and Oxford analysis with advanced Instru EDS	Oxford Instru ments
15:00:00 - 15:30									
							Lab	Particle search and Oxford analysis with advanced Instru EDS	Oxford Instru ments

Room Map Ångström Laboratory House 10, ground floor









List of companies

Booth	Company
I-2	Oxford Instrument
I-3	JEOL
I-4	Nordic Nano (Tescan)
I-5	Micromedic
I-1	Bergman Labora (Nikon)
II-1	Spectral (Hitachi)
II-2	Xspect Solutions
II-3	ZEISS
II-4	Thermofisher
II-5	Rowaco
II-6	Systron
II-7	Kimmy Photonics
II-8	Blue Scientific
III-9	CEOS
III-A	Abberior
III-6	Caspilor
III-7	EDAX
III-1	SmarAct
III-2	GammaData
III-3	EMSIS
III-4	Quantum Detectors
III-5	SciSpot
III8	DensSolutions
III-B	Quantifoil
III-10	DECTRIS
table	Parksystems
table	QuantumDesigns

Social event

The conference organisers welcome you to join the social activities on 14^{th} June. You can sign up to one of the following activities when the registration desk is open.

Places are limited, on a first come, first saved basis.

- 17:30-18:30 Guided tour of the Botanical Garden OR a Guided tour of the Carolina Rediviva library.
- 19:00-22:30 Meet up with DJ Petter at Uppsala's first Music place <u>Katalin</u> (a small dinner and one drink will wait for you)

How to get there:

- Both places with guided tours can be reached within about 20-25 min walking distance from the conference.
- **Botanical Garden**: At Bus stop besides the Ångström Laboratory, take bus 12, exit at Blåsenhus. Then walk 3 min to Café Victoria meeting point.
- Carolina Rediviva library: At Bus stop besides the Ångström Laboratory, take bus 12, exit at Blåsenhus. Then walk 3 min to entry of Carolina Rediviva
- Katalin: From Carolina Rediviva, at "Uppsala Slottsbacken" bus stop, take bus 7, exit at Uppsala Stadshuset. Walk 2 min to Katalin.
- **Katalin: From Botanical Garden**, at "Blåsenhus" bus stop, take bus 7, exit at Uppsala Stadshuset. Walk 2 min to Katalin.
- **Katalin: by walking**, you will reach Katalin in about 20 min from both places.

Other Practical Information

Venue

House 10, Ångström Laboratory, address: Lägerhyddsvägen 1: Bus stop "Polacksbacken". Parking: _Parking Grindstugan.

The Ångström Laboratory is located approximately 3 km south of central Uppsala. Best way to access is by local bus.

Local bus 4 from Uppsala Centralstation towards Gottsunda Centrum, stops at "Polacksbacken" after about 10 minutes bus ride.

Registration and name badge

The registration desk opening hours are:

- 12 June 11-13:30
- 13 June 08-08:30
- 14 June 08-08:30

You will receive a name badge at registration. Please keep your name badge on and visible at all times during the entire conference, as it is your ticket for the conference scientific program, social activities, dinner, coffee and lunches.

Posters

The Posters can be mounted on Monday from 11:00 and should be unmounted latest Tuesday 17:30.

Lunches

Please observe that no lunch will be served on 12 and 15 June.

There are restaurants in the building if you want to buy lunch. On 13 and 14 of June lunch boxes will be offered to the conference delegates.

Conference dinner 13 June (pre-registration required)

The dinner will take place at restaurant Sven Dufva at 19:00 Adress: Dag Hammarskjölds Väg 40

Wifi

Eduroam is available in the buildings. Uppsala University guest account can also be accessed. You need a mobile phone to create your own free account on site. Instructions will be available upon arrival.

Do not hesitate to contact us if you have any further questions.

We wish you a warm welcome to Scandem 2023 in Uppsala.

The SCANDEM organizing committee

by Academic Conferences - the conference registration office Tel. +46 18 67 10 64 or +46 18 67 10 03

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