

70th Annual Meeting of the Nordic Microscopic Society

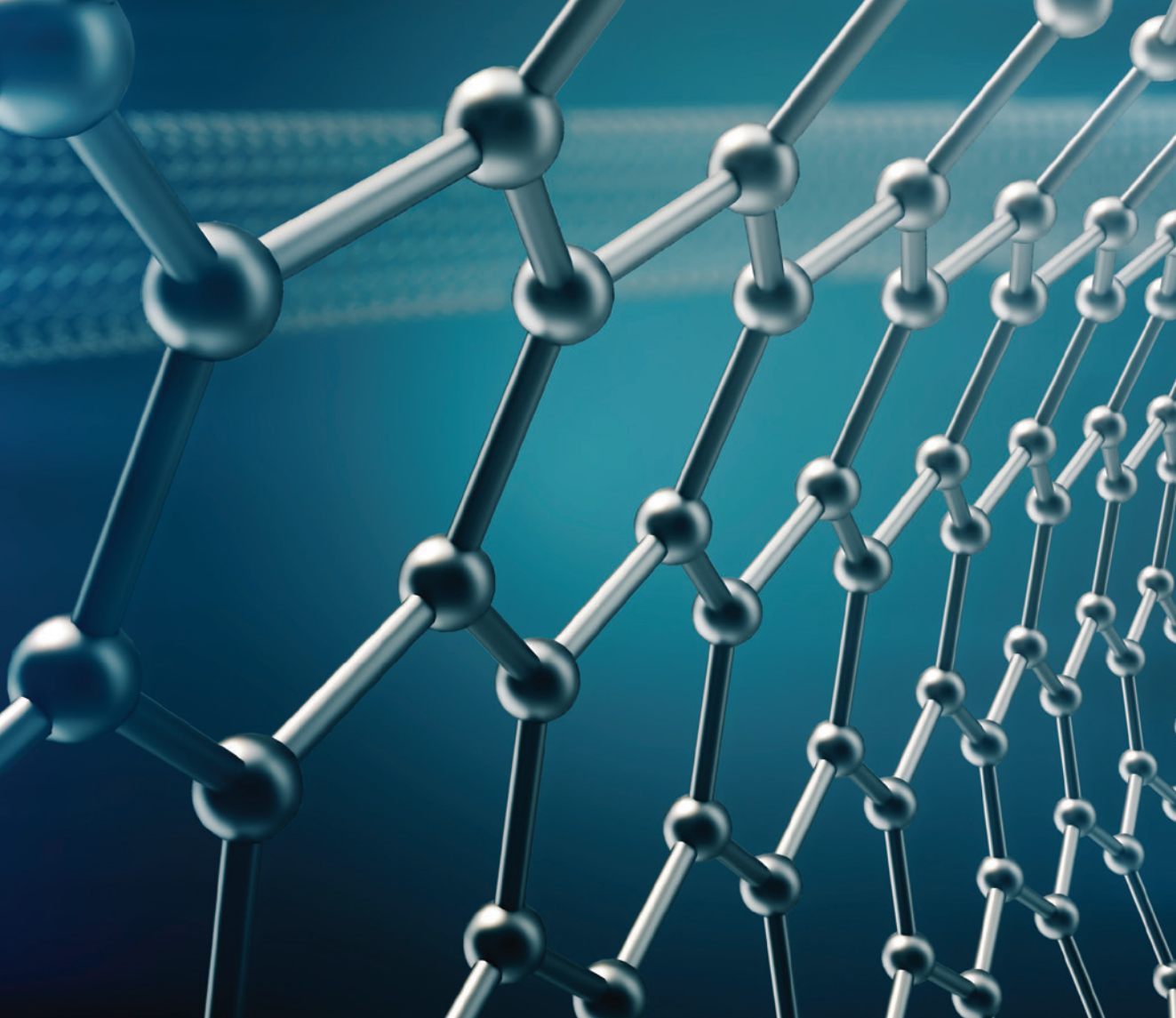
SCANDEM

GOTHENBURG
SWEDEN
JUNE 11–14

2019

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COMPLEX SYSTEMS





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WELCOME NOTE

We would like to welcome you to the SCANDEM 2019 conference – from Atoms to Complex Systems – for the big celebration of the 70th annual meeting of the Nordic Microscopy Society!

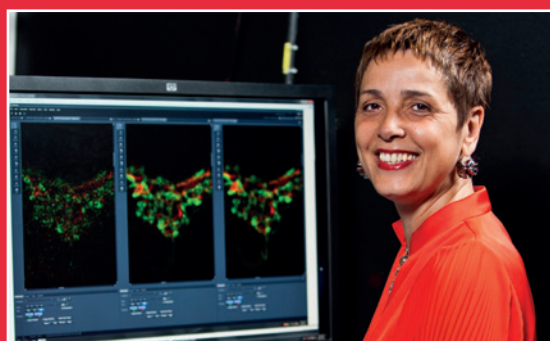
Recent technological innovations have led to a revolution in advanced microscopy, which has greatly increased the demand for high-end microscopes in both Life and Materials Sciences!

In the area of the Life Sciences, innovative imaging technologies enables the in-depth understanding of the basic concept of life by allowing researchers to visualize, characterize and measure molecular and cellular function with a precision never reached before, exemplify by the two Nobel Prizes for super-resolution and cryo-electron microscopy. These technologies allow breakthrough biological discoveries in cells and animal models and their translation into biomedicine, giving us the power to understand and rationally intervene with new strategies for treating human diseases. In the Materials Sciences, electron microscopy (EM) is the only technique available that can image the atomic structure of materials with (sub) nanometer resolution. Using analytical tools, also the chemical composition and electronic properties can also be mapped in 2D or in 3D at the nanometer scale. These detailed characterizations are of major importance to research fields such as the geosciences, catalysis and semiconductors (hard matter), to polymeric, tissue regeneration and foods materials (soft matter), and materials based on colloids (where soft and hard matter meet). EM is also essential for the rapid current developments in nanotechnology. As nanoparticles are key to the development of photovoltaic applications (solar cells, display technology) and for the conversion of sustainable feedstocks such as biomass to chemicals and transportation fuels.

Following this line, the SCANDEM 2019 program is offering an attractive combination of lectures and poster sessions from electron and light microscopy, X-ray to

image analysis, with poster presenters selected for short talks. It will also provide excellent opportunities for discussions and informal gatherings. Take the opportunity to challenge your brain, create a new network, and maintain existing relations! The parallel sessions will cover the following topics: Imaging across scales/multimodal Microscopy (Correlative microscopy, cryo-EM, molecular CT, etc.); Live & Fast super-resolution microscopy – Functional Imaging; Quantitative high spatial resolution spectroscopy; Advanced Imaging and Diffraction; In situ Microscopy; Artificial Intelligence, machine learning and data analysis. SCANDEM 2019 is also constitute an excellent exhibition platform for the companies, considering the continuous impact of new imaging technologies and state-of-the-art development of microscopy instrumentation, sources, optics, detectors and accessories!

We hope that you will be able to join us in Gothenburg for what is certain to be a very exciting and educational meeting. On behalf of the entire organization committee we are looking forward to host you during the brightest time of the year around the great Swedish midsummer. We wish you a wonderful stay in Gothenburg!



Julia Fernandez-Rodriguez
Chair of SCANDEM 2019

TUESDAY

*Correlative light and electron microscopy workshop
at Wallenberg Conference Centre*

8:00 - 8:15	Registration		
8:15 - 9:00	Jan De Bock, LEICA Microsystems Investigating molecules in the cellular context - The First Integrated Cryo Electron Tomography Workflow		
9:00 - 10:00	Sten Sturefelt, Hitachi and Delmic Remote CLEM session on the SECOM system from Delmic		
10:00 - 10:30	Coffee-break		
10:30 - 11:30	Chris Guerin, VIB - Ghent An overview of correlative light and electron Microscopy from early studies to current workflows		
11:30 - 12:00	Group discussions		
12:30 - 13:00	Lunch		
	Hands-on at the Centre for Cellular Imaging		
	Station 1	Station 2	Station 3
	Joanne Lo, Thermo Fisher Correlative Workflow from Light to Electron Microscopy	Zeiss Connected Microscopy Combining Imaging Modalities of all Kind	Zeiss Connected Microscopy Array Tomography from LM to SEM
13:00 - 14:30	Group 1	Group 2	Group 3
14:30 - 15:00	Coffee-break		
15:00 - 16:30	Group 2	Group 3	Group 1
16:30 - 16:45	Short break		
16:45 - 18:15	Group 3	Group 1	Group 2
18:15 - 18:30	Group discussions		

Sponsors



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WEDNESDAY

8:00 - 8:30	Registration	
8:30 - 8:45	Plenary: Wallenberg Hall Eric Hanse Vice-Dean Infrastructure Sahlgrenska Academy - Opening	
8:45 - 9:00	Julia Fernandez-Rodriguez & Eva Olsson	
09:00-10:00	Silke H Christiansen - Complex, three-dimensional nano architectures in biology and engineered devices - understanding and enhancing functionality through correlative microscopy	
10:00 - 10:30	Coffee-break / Exhibition	
	Parallel Sessions	
	Wallenberg Hall	Europa
	Imaging across scales – Multimodal imaging	In Situ Microscopy
	<i>Chair: Varpu Marjomäki</i>	<i>Chair: Per Persson</i>
10:30 - 11:15	Rachela Popovtzer Seeing is Believing: Tracking the Movement of Cells Within Our Body	Niels de Jonge Liquid-Phase Electron Microscopy of Cells and Nanomaterials in Liquid
11:15 - 11:45	Peijun Zhang CryoEM of virus infections in human cells	Jakob Birkedal Wagner Dynamics of material surfaces and interfaces – the good, the bad and the electron beam
11:45 - 12:00		Shun Kondo Direct characterization of atomic-scale crack propagation path in grain boundary fracture
12:00 - 12:15	Davide Zabeo The 3D architecture of human sperm flagellum tips revealed by cryo-electron tomography	Anette Eleonora Gunnæs Characterization of phase transforming, Heusler based Cu-Pd-Sn alloys for energy harvesting
12:15 - 12:30	Xavier Heiligenstein CryoCapCell: a global workflow for HPF-CLEM	Crispin Hetherington In situ growth of III-V nanowires in the Lund ETEM
12:30 - 13:30	Lunch / Exhibition	
13:30 - 14:30	Plenary: Wallenberg Moritz Helmstaedter 3D EM for Connectomics	
	Parallel Sessions	
	Wallenberg Hall	Europa
	Imaging across scales – Multimodal imaging	Quantitative imaging and high spatial resolution spectroscopy
	<i>Chair: Julia Fernandez-Rodriguez</i>	<i>Chair: Jakob Birkedal Wagner</i>
14:30 - 15:00	Chris Guerin It's not as simple as we thought: Volume EM brings the 3rd dimension to nanoscale morphology	Andrew Yankovich Towards Plasmon-Exciton Hybridization at the Nanoscale using STEM EELS
15:00 - 15:30	Lorna Hodgson CLEM meets synthetic biology	Per Persson Tailoring of 2-dimensional MXene composition, structure and surface chemistry
15:30 - 16:15	Coffee-break / Exhibition	
16:15 - 16:30	Sara Henriksson Focused ion beam methods to visualize <i>Saccharomyces pombe</i>	Thomas Slater Elemental Imaging of Inorganic Nanoparticles in 3D Using Single Particle Reconstruction
16:30 - 16:45	Emma Kay Endosomal escape of an antisense oligonucleotide revealed by NanoSIMS and TEM	Karin Mattsson Comprehensive characterization and particle quantification of environmental microplastics using novel correlative microscopy instrumentation and workflows
16:45 - 18:00	Company presentations: Wallenberg	
18:00 - 18:15	Welcome reception (hosted by the City of Gothenburg): Wallenberg	
18:15 - 19:30	Poster Session	
19:30 - 20:15		
	Free night for delegates	SCANDEM Board meeting

THURSDAY

8:45 - 9:00	Plenary: Wallenberg Hall Mattias Goksör Introduction Pro Vice-chancellor University of Gothenburg	
09:00-10:00	Stefan Hell MINFLUX Nanoscopy: Super-resolution post Nobel	
10:00 - 10:30	Coffee-break / Exhibition	
	Parallel Sessions	
	Wallenberg Hall	Europa
	Live & Fast super-resolution microscopy, Functional Imaging	Advanced Imaging and Diffraction
	<i>Chair: Rafael Camacho</i>	<i>Chair: Peter A. Van Aken</i>
10:30 - 11:00	Ilaria Testa Faster and gentler live cell optical nanoscopy	Angus Kirkland Recent Developments in Studies of Structural Dynamics in Low Dimensional Materials
11:00 - 11:30	Christian Eggeling Molecular membrane organization studied by super-resolution fluorescence spectroscopy	Xiaodong Zou Automated 3D electron diffraction techniques for high-throughput phase analysis and <i>ab initio</i> structure determination – from inorganics to proteins
11:30 - 11:45	Stefan Wennmalm Novel Variants of Fluorescence Correlation Spectroscopy	Sofie Colding-Jørgensen 3D orientation mapping in the TEM on state-of-the-art Solid Oxide Fuel Cell material CGO
11:45 - 12:00	Erik Olsén Sub-micron particle tracking and cellular dynamics investigated using combined digital holographic and fluorescent imaging	Alice Bastos S. Fanta Adding a new imaging capability to an on-axis TKD detector
12:00 - 12:45	Wallenberg SCANDEM2019 General Assembly	
12:00 - 13:30	Lunch / Exhibition	
13:30 - 14:30	Plenary: Wallenberg Peter A. van Aken Far-field radiation of three-dimensional plasmonic gold tapers and of dynamic toroidal moments	
	Parallel Sessions	
	Wallenberg Hall	Europa
	Live & Fast super-resolution microscopy, Functional Imaging	Advanced Imaging and Diffraction
	<i>Chair: Rafael Camacho</i>	<i>Chair: Andrew B. Yankovich</i>
14:30 - 15:00	Sara Abrahamsson Multifocus Structured Illumination Microscopy	Christina Scheu Advanced Cs corrected STEM imaging coupled to 3D atom probe tomography
15:00 - 15:15	Kesara Anamthawat-Jonsson Diatom diversity in Lake Thingvallavatn, Iceland	Gabriel Sánchez-Santolino Atomic Resolution Electric Field Imaging by Differential Phase Contrast Scanning Transmission Electron Microscopy
15:15 - 15:30	Vilhelm Müller Detecting Pathogenic Bacteria with a Smartphone	Dipanwita Chatterjee Analysis of Orientation Preference in Heterogeneous Nucleation by Precession Electron Diffraction Technique
15:30 - 16:00	Coffee-break / Take away Coffee + Bus	
16:00 - 19:00	Boat Tour Boat Kungsö departure from Stenpiren	
19:00 - onwards	Conference Dinner Kajskjul 8	

FRIDAY

9:00 - 10:00	Plenary: Wallenberg Hall Fred Hamprecht Learning to segment an image
10:00 - 10:30	Coffee-break / Exhibition
	Plenary: Wallenberg Hall <i>Chair: Lassi Paavolainen</i>
10:30 - 11:15	Andy Stewart Machine learning, Artificial Intelligence
11:15 - 11:45	Perrine Paul-Gilloteaux Automatic Registration of Correlative Microscopies with Error Assessment and Applications for the Optimization of Multimodal Acquisitions
11:45 - 12:15	Peter Horvath Life beyond the pixels: image analysis and deep learning methods for quantitative microscopy
12:15 - 12:30	Jo Berry Generating new methods and scope for communicating scientific research where reprocessing Advanced Imaging data is used as an essential part of a creative protocol
12:30 - 12:45	Closing remarks
12:45 - onwards	Grab and go Lunch

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Serial sectioning for array tomography

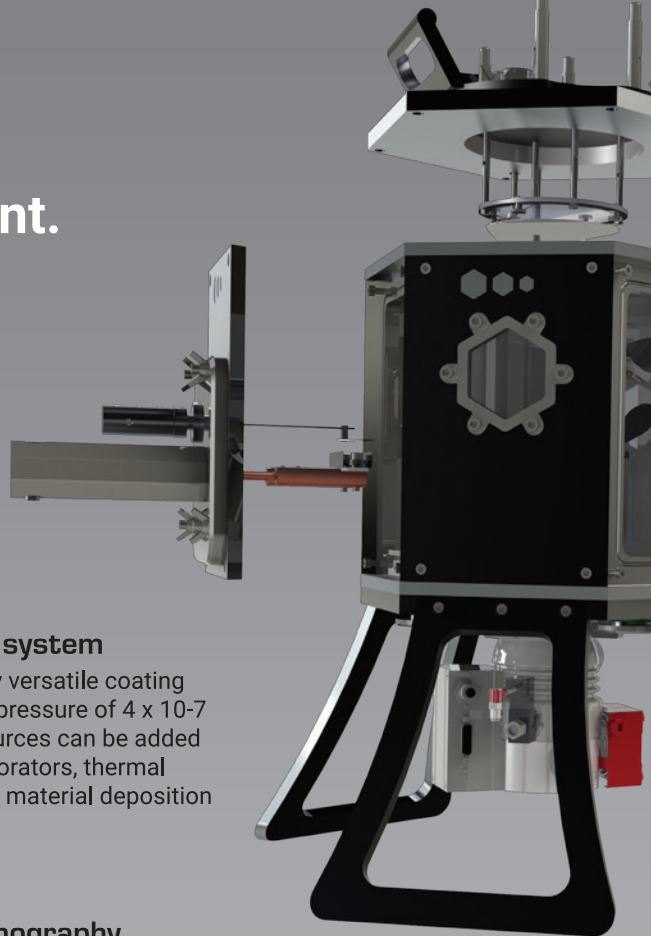
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SCANDEM 2019
BOOTH 21



POSTERS

Posters for life sciences

No.	Lastname	Name	Title
L01	Ardalan,	Maryam	3D Reconstruction and Stereological Quantification of Brain Structure in Experimental Perinatal Neuroscience
L02	Blomqvist,	Charlotte Hamngren	Visualizing GFP by EM – a CLEM approach with nanobodies for GFP-specific-APEX2 DAB oxidation
L03	Colomb-Delsuc,	Mathieu	Advancing TEM Based Biomedical Nanoparticle Characterization: GMP Compliant TEM Workflow In a BSL2 Environment
L04	Dolan,	Brendan	The use of live cell imaging to investigate compound mucus exocytosis from goblet cells
L05	Droumpali,	Ariadni	Visualization and characterization of biofilm formation from marine bacteria by SEM technique
L06	Dutta,	Tanoy	Discerning the micropolarity of endoplasmic reticulum under cellular stress with high-resolution fluorescence microscopy
L07	Ermund,	Anna	Visualizing invisible mucus
L08	Franzdóttir,	Sigríður Rut	Studying protein expression and intracellular dynamics of Pontin and Reptin in vivo
L09	Grant,	Stephen	Refractive index mapping of algal cells using the transport of intensity equation
L10	Heiligenstein,	Xavier	CryoCapCell: a global workflow for HPF-CLEM
L11	Henriksson,	Sara	Focused ion beam methods to visualize <i>Saccharomyces pombe</i>
L12	Holzenburg,	Andreas	Approaching the quantum realms of photosynthetic electron transfer
L13	Keuenhof,	Katharina	Quantifying Cellular Responses to Heat-Shock
L14	Lin,	Yii-Lih	Multiplexed optical DNA mapping to identify plasmids and their resistance genes
L15	Midtvedt,	Daniel	Digital Holographic Microscopy for real-time quantitative monitoring of stress at the cellular level
L16	Neděla,	Vilém	The Low Temperature Method for ESEM – a New Method for in vivo study of fresh diatom assemblages
L17	Olsén,	Erik	Sub-micron particle tracking and cellular dynamics investigated using combined digital holographic and fluorescent imaging
L18	Parmryd,	Ingela	Membrane topography invalidates membrane models
L19	Prasad,	Sonal	Role of radixin in modulation of outer hair cell stereocilia functions
L20	Wennmalm,	Stefan	Novel Variants of Fluorescence Correlation Spectroscopy
L21	Zabeo,	Davide	The 3D architecture of human sperm flagellum tips revealed by cryo-electron tomography

Posters for material sciences

No.	Lastname	Name	Title
M01	Aarholt,	Thomas	The impact of local relaxation on defect complex scanning transmission electron microscopy contrast
M02	Ahmad,	Nabeel	Liquid Phase In situ Study of Ag@Au Bimetallic Nanostructures
M03	Ambroz,	Vitezslav	Multi-Modal 3D Microstructure Analysis using New Generation Plasma FIB-SEM by TESCAN
M04	Bastos S. Fanta,	Alice	The perspectives of filtering the saturated signal for on-axis TKD
M05	Bazioti,	Calliope	STEM-EELS investigation of defect formation and thermal evolution in ZnO
M06	Bergner,	Andreas	Synchrotron Beamline Capabilities for X-Ray Microanalysis (XAS, μ XRF, and Nano-XRM) in the Laboratory
M07	Fager,	Cecilia	FIB-SEM tomography on porous polymer coatings used for controlled drug release
M08	Haug,	Kristian	Functionalization of transparent conductive ZnO
M09	Heinig,	Mario Frederik	Nanoscale studies of ultrathin gold films with various adhesion materials: Ti, Cr, APTMS, MPTMS and APS
M10	Hetherington,	Crispin	TEM and PES studies of tin-oxide nanoparticles in a beam and after deposition on a substrate
M11	Holmér,	Jonatan	In situ scanning tunneling microscope - scanning electron microscope characterization of photovoltaic properties of single GaAs nanowires
M12	Honkanen,	Mari	Electron microscopic studies of nanoparticle functionalized cellulose fibers
M13	Kadkhodazadeh,	Shima	Monitoring the dynamics of the Kirkendall effect in Cu nanoparticles
M15	Mattsson,	Karin	Comprehensive characterization and particle quantification of environmental microplastics using novel correlative microscopy instrumentation and workflows
M14	Nguyen,	Phuong Dan	Structural and optical properties of individual Zn ₂ GeO ₄ particles embedded in ZnO
M16	Nilsson,	Sara	A Correlative Optical and Electron Microscopy Method for Understanding the Oxidation Mechanism of Single Cu Nanoparticles
M17	Persson,	Axel R.	Complex semiconducting nanowires studied by electron tomography
M18	Phifer,	Daniel	Automatic coloring during in-situ imaging
M19	Riis,	Henrik	Metallization of ZnSb for thermoelectric applications
M20	Schwalb,	Christian	Correlative In-Situ Analysis of nanostructures by combination of AFM, SEM, and FIB
M21	Sjövist,	Robin	Au Particle Composition and State During in-situ InAs Nanowire Growth in an Environmental TEM
M22	Thronsen,	Elisabeth	Studying precipitates in pre-deformed Al-Mg-Si-Cu alloys by atomic resolution STEM and scanning electron diffraction
M23	Vippola,	Minnamari	Correlating in-situ nanoindentation, EDS and EBSD characterization results: Case study of flame cut wear-resistant steel plates

POSTERS

Posters Core facilities			
No.	Lastname	Name	Title
F01	Carroni,	Marta	The Swedish Cryo-EM National Facility
F02	Jans,	Daniel C.	ALM (Advanced Light Microscopy) – Super-resolution microscopy support for YOU
F03	Peuckert,	Christiane	Intravital Microscopy at Stockholm University- A national infrastructure for advanced in vivo bioimaging



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Venue

Conference Centre Wallenberg

About SCANDEM Society

SCANDEM* was founded October 16, 1948, at the Research Institute of Experimental Physics in Stockholm. It has since then served as an active organization focusing on all aspects related to microscopy. This includes developments of the technology, specimen preparation techniques, applications in material and life sciences and new types of microscopy. Most of the members come from universities, research institutes and industries in the Nordic countries. To promote and disseminate the knowledge of microscopy in this environment the Society is coordinating a number of activities:

- An annual SCANDEM meeting is organized by a local committee. The event alternates between the Nordic countries. It covers all aspects related to microscopy and lectures are given by Nordic as well as invited non-Nordic scientists. All participants are encouraged to bring posters, which are discussed in special sessions, and a few poster prizes are normally awarded. SCANDEM also sponsors the participation of students at the meetings by giving travel grants. A highly valued event at the SCANDEM meetings is the commercial exhibition at which companies in the field have an opportunity to present their products.
- SCANDEM is supporting courses in different fields of microscopy.
- Grants for attending other conferences, courses, workshops, etc. are given yearly. The educational grants have to be connected to advanced microscopy and it is the board that is responsible for approval of both travel and educational grants.
- Information to members is presented on the SCANDEM website.

SCANDEM is a member of the International Federation of Societies for Microscopy (IFSM), and of the European Microscopy Society (EMS).

The name SCANDEM was an abbreviation for the "Scandinavian Society for Electron Microscopy". This name was chosen since only Denmark, Norway and Sweden (Scandinavia) were represented at the founding meeting, and for some years into the early 1950s. Today SCANDEM includes all the Nordic countries (Denmark, Finland, Iceland, Norway and Sweden), and has also members from other countries.

** The by-line "Scandinavian Society for Electron Microscopy" was in 2002 changed to "Nordic Microscopy Society".*



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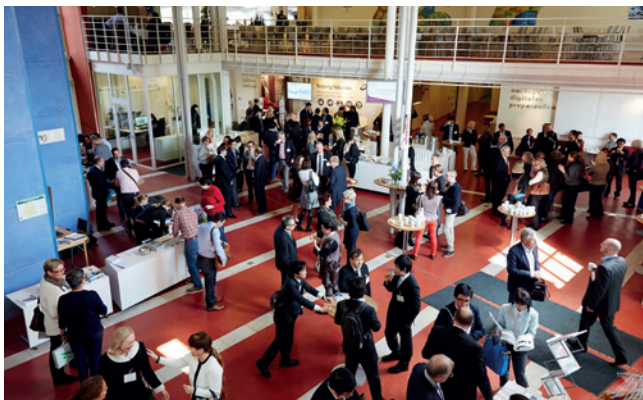
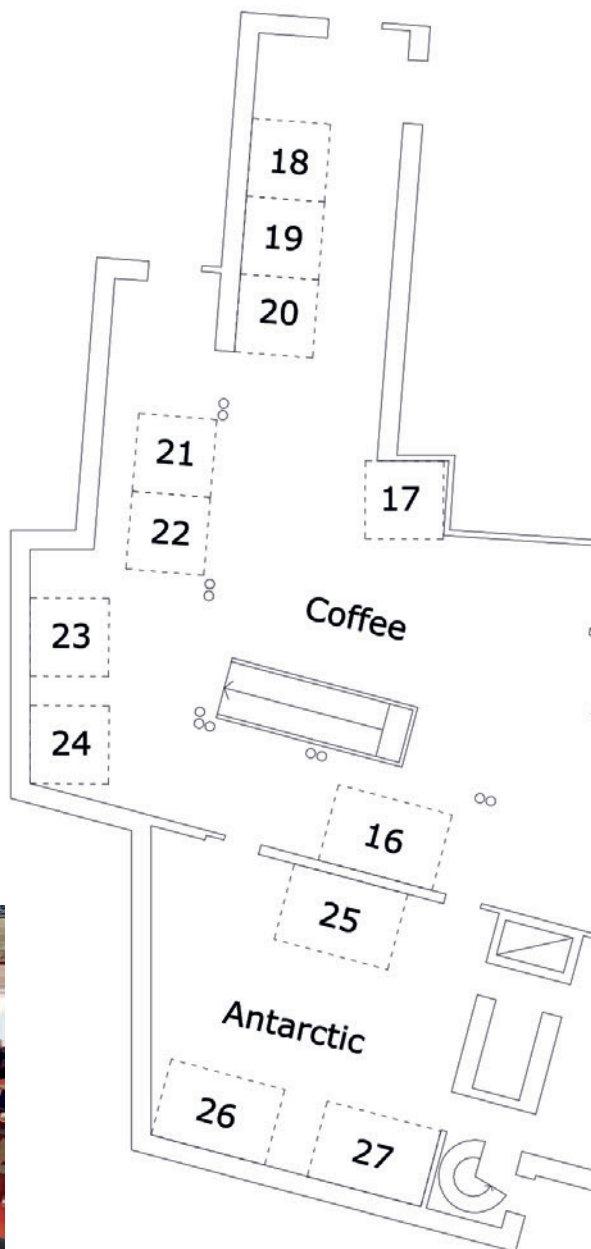
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FLOORPLAN

Wallenberg Conference Centre

1. Carl Zeiss
2. Micro to Nano
3. Gammadata Instrument
4. Caspilor
5. EDAX
6. BergmanLabora
- 7-8. Bruker Nano
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EVENT INFORMATION

Registration & Information Desk

Wallenberg Conference Centre
Opening hours: Tue 17.00-19.00
Wed-Fri 8.00-9.00

Conference centre opening hours:

Wallenberg Conference Centre
Tue-Wed general open hours from 8.00-20.00
Thu 8.00-16.00, Fri 8.00-13.30

Wifi

Eduroam
GUGuest (ask information desk)

Break & Lunches

Coffee-breaks will be served at the foyer of the Wallenberg Centre during designate times (see program overview)

Lunches will be served at the Lyktan restaurant (Wallenberg Centre)

Wed	12.30-13.30 (sit-down lunch),
Thu	12.00-13.30 (sit-down lunch)
Fri	12.45 (Grab and go lunch)

Poster presentation

All posters should be appended during registration on Wednesday, June 12th before 9.00 am, and disassemble Friday June 14th before 9.00 am. The Organising Committee will not be responsible for posters that are not removed! Presenters are requested to attend their poster during the "Poster Session" on Wednesday 12th of June and 18.15 pm.

During the conference dinner on Thursday 13th two best-poster awards will be announced

Maximum poster size is: 90 cm width x 100 height, in portrait format

Exhibition

Opening hours:

Tue	18.30-20.30
Wed	8.00-20.30
Thu	8.00-16.00
Fri	8.00-10.30

SOCIAL EVENTS



City of
Gothenburg

Welcome Reception, Wednesday 12th June

Place: Wallenberg Conference Centre
Time: 18.00

The welcome reception is hosted by the City of Gothenburg and includes food and drinks



Boat Tour, Thursday 13th June

Place: Departing with buses from Wallenberg Conference Centre
Time: 16.00-18.30

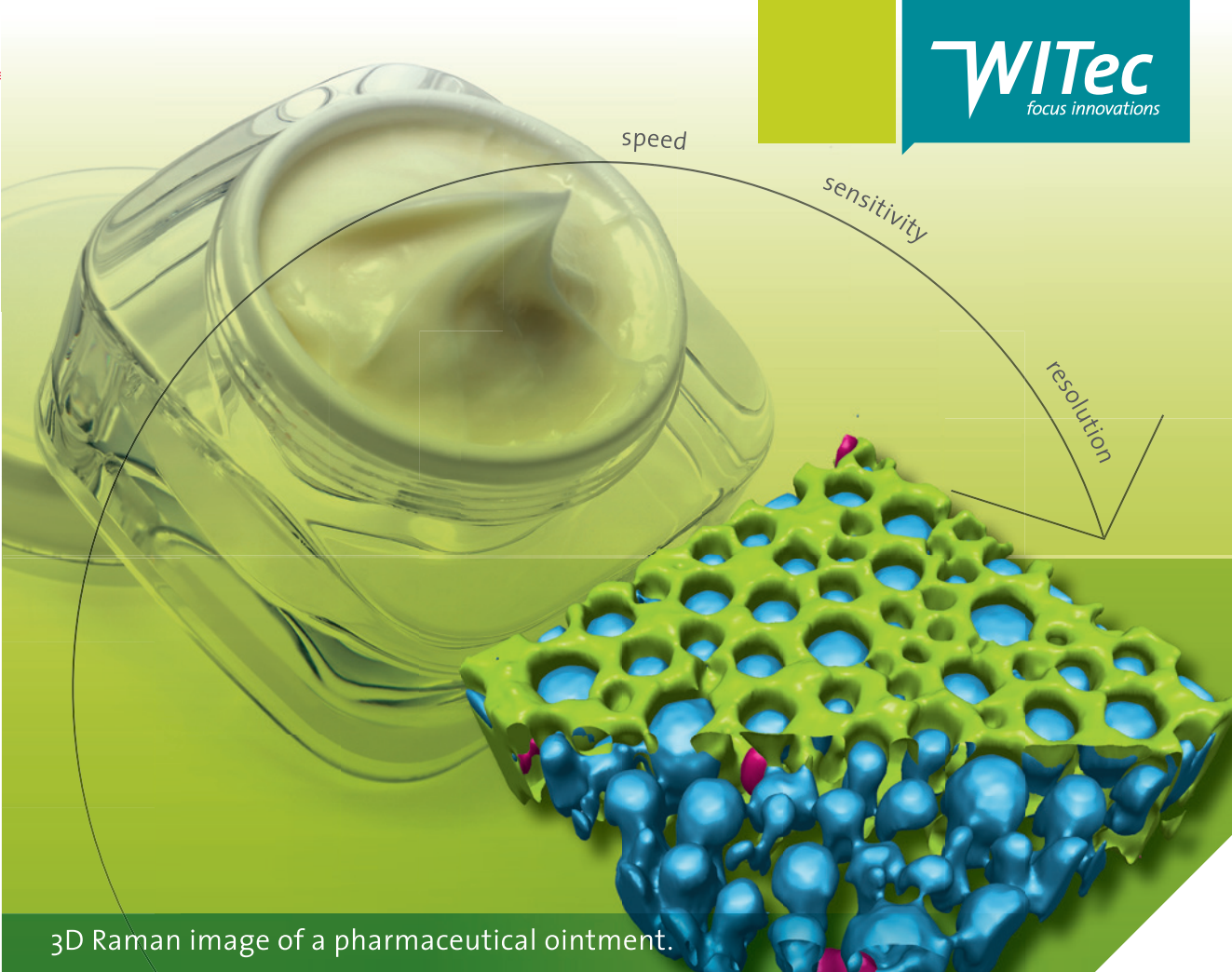
You are welcome onboard the boat Kungsö that will take you on a guided cruise in the archipelago of Gothenburg! The boat is departing from Stenpiren and the cruise takes approx. 2,5-3 hr. The tour includes coffee/tea and sandwich, there will also be a bar available to buy refreshments.



Conference Dinner, Thursday 13th June

Place: Kajskjul 8
Time: 19.00

The dinner will take place at Kajskjul 8, a venue located in the harbour area in the city centre. Kajskjul 8 was built on the quays along the railroad tracks around 1870. Originally used as a warehouse, the shed was then filled with all kinds of products, such as spices imported from the Orient as well as lumber from the forests of Värmland (a region north of Gothenburg), which would then be transported down to southern Europe and other places. It is a building with a lot of interesting history, nowadays used for events and dinners. Closest tram/bus/ferry stop: Stenpiren or Lilla Bommen



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We're looking forward to meeting you at the event and discussing your current work. Find us on booth **#13** or book a meeting

oxinst.com/SCANDEM19

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#13

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