

Time	Wednesday 8 June	Thursday 9 June	Friday 10 June	Time
09:00	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Nanofabrication Nx</p> <p>Analysis Ax</p> <p>Instrumentation Ix</p> <p>Sec. Electron Imaging Ex</p> </div> <div style="width: 45%; text-align: center;"> <p>Industry exhibition during conference hours</p> </div> </div>	<b>Keynote A1</b> <b>Kaoru OHYA</b> Modelling secondary electron emission from nanostructured materials in scanning ion microscopes: some interesting similarities and differences from scanning electron microscopes	<b>Keynote E1</b> <b>James FITZPATRICK</b> Biological Applications of Ion Microscopy	09:00
09:40		<b>Oral A2</b> <b>Cyril LANGLOIS</b> Crystal Orientation Mapping using ion image series: iCHORD	<b>Oral E2</b> <b>Viacheslav MANICHEV</b> Helium Ion Microscopy characterization and analysis of biological structures	09:40
10:00		<b>Oral A3</b> <b>Charlotte ROTHFUCHS</b> Photoluminescence study of ion-implanted InAs/GaAs QDs and GaN/AlN QDs	<b>Oral E3</b> <b>Andreas SCHERTEL</b> Volume Imaging of Cellular Ultrastructure in Vitrified Biological Samples using Cryo FIB/SEM	10:00
10:20		<b>Oral A4</b> <b>Catalina MANSILLA SANCHEZ</b> Measurement of residual stress by slit milling method at the local microscale.	<b>Oral E4</b> <b>Eva CAMPO</b> Helium Ion Microscopy of Electrospun Nano-Composites	10:20
10:40				10:40
11:00		Coffee break	Coffee break	11:00
11:10		<b>Invited N6</b> <b>Marek SCHMIDT</b> Recent progress in helium-ion-based nanofabrication for advanced graphene device applications	<b>Invited A9</b> <b>Stuart BODEN</b> Dopant profiling in the helium ion microscope	11:10
11:40		<b>Oral N7</b> <b>Alex BELIANINOV</b> Nanoforging of Single Layer MoSe2 Through Defect Engineering Using Focused Helium Ion Beams	<b>Oral A10</b> <b>Felix KOLLMER</b> FIB TOF-SIMS Crater Wall Imaging and Tomography	11:40
12:00	Registration & Coffee	<b>Oral N8</b> <b>Danny FOX</b> Nanopatterning and Electrical Tuning of MoS2 with a Helium Ion Beam	<b>Oral A11</b> <b>Nico KLINGNER</b> Time of Flight Spectrometry in the HIM	12:00
12:20		<b>Oral N9</b> <b>Daniel EMMRICH</b> Nanopore Fabrication and Characterization by Helium Ion Microscopy	<b>Invited A12</b> <b>Silvio RIZZOLI</b> Genetically-encoded isotopic labels	12:20
12:40				
13:00	Opening Remarks	Lunch	Closing Remarks	12:50
13:20	<b>Keynote N1</b> <b>Olga OVCHINNOKOVA</b> Building with Ions: Development of In-Situ Liquid Cell Microscopy for the Helium Ion Microscope		Lunch	13:00
14:00	<b>Oral N2</b> <b>Frances ALLEN</b> Fabrication of plasmonic nanostructures using a Helium Ion Microscope	<b>Keynote I5</b> <b>Ferdinand SCHMIDT-KALER</b> Nanoscopic single particle microscopy with a deterministic single ion source		14:00
14:20	<b>Oral N3</b> <b>Sven BAUERDICK</b> Advanced FIB Nanofabrication with New Ion Species and Large Area Capabilities	<b>Oral I6</b> <b>Matthieu VITEAU</b> Laser Cooled Atoms as a Focused Ion Beam Source	<b>Visit of LIST facilities (Shuttle provided)</b> <b>Time for meetings etc (e.g. COST action)</b>	14:20
14:40	<b>Oral N4</b> <b>Katja HÖFLICH</b> Ion Beam Based Fabrication of Tunable Hyperbolic Cavities for Efficient Emitter Coupling	<b>Oral I7</b> <b>Hans MULDER</b> An in-situ Low Energy Ion Source for Local Surface Modification		14:40
15:00	<b>Oral N5</b> <b>Shinichi OGAWA</b> Characterization of Damages during Imaging by HIM and SEM			15:00
15:20	Coffee break	Coffee break		15:20
15:50	<b>Invited I1</b> <b>Sybren SIJBRANDIJ</b> Recent Developments in Helium and Neon Ion Microscopy Instrumentation	<b>Invited A5</b> <b>Yuri PETROV</b> Ion Reflection and Ion-Electron Interaction in the Helium Ion Microscope		15:50
16:00	<b>Oral I2</b> <b>Jason PITTERS</b> Hydrogen Ion Beams from Nanotip Gas Field Ion Sources.	<b>Oral A6</b> <b>David DOWSETT</b> High Resolution Chemical Imaging on the Helium Ion Microscope		16:00
16:20	<b>Oral I3</b> <b>Shinichi MATSUBARA</b> Stable H3+ emission from hydrogen gas field ion source by single-atom terminated emitter tip	<b>Oral A7</b> <b>Mathias SCHMIDT</b> Correlative Microscopy at ProVIS - Centre for Chemical Microscopy		16:20
16:40	<b>Oral I4</b> <b>Bernd VOLBERT</b> Micromanipulators in Scanning Beam Microscopy - Give your Microscope a Hand	<b>Oral A8</b> <b>Anders BARLOW</b> Studying Ion Beam Sputter Yields and Surface Topography in the Helium Ion Microscope		16:40
17:00				17:00
17:20	Poster Session	Excursion - Guided Walk through Luxembourg City		17:20
19:00		Workshop Dinner		
		Poster Prize Ceremony		

Talk No	Topic	Name	First name	Poster title
P01	1 - Nanotechnology	BELIANINOV	Alex	Polarization control via He-ion beam induced nanofabrication in layered ferroelectric semiconductors
P02	1 - Nanotechnology	BELIANINOV	Alex	Graphene Engineering by Neon Ion Beams
P03	1 - Nanotechnology	BISCHOFF	Lothar	Focused Ion Beam Applications using Liquid Metal Alloy Ion Sources
P04	1 - Nanotechnology	CÓRDOBA	Rosa	Patterning Ultra Narrow Tungsten- Based Nanowires by Focused He+ Ion Beam
P05	1 - Nanotechnology	GREENZWEIG	Yuval	Circuit Edit Requirements for Ion Beam Technology
P06	1 - Nanotechnology	HLAWACEK	Gregor	Tailoring magnetic nanostructures with neon in the ion microscope
P07	1 - Nanotechnology	KHALID	Abbas	Modification of ZnO microwire waveguides using a focused helium ion beam
P08	1 - Nanotechnology	LEISNER	Till	Challenges of fabricating plasmonic and photonic structures with Neon ion beam milling
P09	1 - Nanotechnology	MANSILLA SANCHEZ	Catalina	In-situ EBID purification process with a novel concentric nozzle for simultaneous introduction of organic-metallic precursor and oxygen
P10	1 - Nanotechnology	NANDA	Gaurav	Study of Ion-Induced Defect Migration in Boron-Nitride Encapsulated Graphene
P11	1 - Nanotechnology	XU	Zongwei	Diamond Cutting Tool's Nanofabrication with Focused Ion Beam
P12	1 - Nanotechnology	FLEGER	Yafit	"Out of the Box" Way of Writing Matrices Using HEFIB
P13	2 - Analysis	CADEL	Emmanuel	Where does the FIB sputtered matter accumulate in the SEM chamber ?
P14	2 - Analysis	KLING	Lasse	Time-of-flight (TOF) mass spectrometry (MS) of focused ion beam (FIB) sputtered bio - medical tissue – a novel approach in the correlative study of bone diseases
P15	2 - Analysis	MANSILLA SANCHEZ	Catalina	How to turn an SEM into an AFM: 3D surface reconstruction using SEM images
P16	2 - Analysis	MANSILLA SANCHEZ	Catalina	Roughening and ripple formation on silicon (100) surface during low energy ion bombardment
P17	2 - Analysis	MANSILLA SANCHEZ	Catalina	Storing Matter: a new analytical technique developed to improve the sensitivity and the quantification during SIMS analyses
P18	2 - Analysis	MOOS	Evgeny	SURFACE PARTICLE INTERACTION AND ENERGY UNCERTAINTY
P19	2 - Analysis	MOOS	Evgeny	INTENSITY OF CHARGE AT THE INTERACTION OF IONS
P20	2 - Analysis	OHYA	Kaoru	Simulation of Ion Backscattering and Secondary Electron Emission from Crystal Surfaces Irradiated with Focused Ion Beams
P21	2 - Analysis	PHILIPP	Patrick	Irradiation of polymers in the HIM instrument with light rare gas ions
P22	2 - Analysis	RZEZNIK	Lukasz	Surface topography of polymers irradiated with rare gas ions in the helium ion microscope
P23	2 - Analysis	YEDRA CARDONA	Lluís	TEM-SIMS correlative instrumentation: Isotopic imaging in the TEM
P24	2 - Analysis	AUDINOT	Jean-Nicolas	SIMS imaging on the Helium Ion Microscope
P25	3 - Sec. Electron Imaging	ARSTILA	Kai	Sample Preparation for HIM by Broad Ion Beam Cross Sectioning
P26	3 - Sec. Electron Imaging	BEYER	André	Helium Ion Microscopy Visualizes Lipid Nanodomains in Mammalian Cells
P27	3 - Sec. Electron Imaging	CHIRIAEV	Serguei	He Ion Microscopy of Polymer-Electrolyte-Membrane Fuel Cell Electrodes
P28	3 - Sec. Electron Imaging	KLEIN	Julian	Optical properties of 2D materials exposed to helium ions
P29	3 - Sec. Electron Imaging	SAVENKO	Aleksei	High quality large volume material investigation by Xe plasma FIB
P30	3 - Sec. Electron Imaging	ZLATOUSTOVA	Olga	Properties of calcium-containing microparticles formed in the process of biomineralization of the human aortic wall
P31	4 - Instrumentation	BISCHOFF	Lothar	Liquid Metal Ion Source driven High Current Ion Beam Injector
P32	4 - Instrumentation	DE CASTRO	Olivier	Development Process of a High Brightness Electron Impact Ion Source
P33	4 - Instrumentation	TEN HAAF	Gijs	Ultracold Atoms and their Prospects for High Resolution FIB Nanomachining