Nordic Nanolab User Meeting 2024

NorFab, University of Oslo and SINTEF, Oslo, Norway 3 – 4 June 2024

Monday 3 June

10:30 10:30	Visits to MiNaLab Registration and coffee						
11:30	Lunch						
12:00	Welcome						
12:10	Dmityr Suyatin, Alixlabs AB: How to go Lab to Fab in Scandinavia						
Themati 13:00	ic tutorials Characterisation Optical techniques:	Thin Film technologies Introduction and	Bonding technologies Bonding technologies,	Lithography Lithography Basics - Sample			
	Practical Raman Measurements, unwanted artefacts and how to avoid them (Advanced) Jakob Thyr, Uppsala	comparison of thin film deposition techniques (Basic) Martijn de Roosz, NTNU	with focus on SLID intermetallic bonding for thermally challenging applications (Basic) Knut Aasmundtveit, USN	preparation and process variables (<i>Basic</i>) Sarah Mckibbin, Lund 2-photon lithography - optimizing settings to achieve the best compromise between print time and quality, Milena De Albuquerque Moreira, Uppsala			
13:55	Anil Thilsted, Spectro Inlets: Microbudget Engineering: Converting Microfabrication Ideas into Cost-Effective Start-Up Successes						
14:30	Coffee						
15:00	Characterisation TEM characterization – from specimen preparation to data analysis, including FIB sample prep, STEM, spectroscopy and SPED (Advanced) Tina Bergh, NTNU	Thin Film technologies Combinatorial pulsed laser deposition (C-PLD) an introduction. (Basic) Magnus Andreassen, UiO	Bonding technologies Anisotropic conductive adhesive film for high- density interconnections (Basic), Hoang Vu Nguyen, USN	Lithography Maskless lithography - parameter control (Advanced) Grigory Skoblin, Chalmers			
15:45	Poster session Visits to MiNaLab (15:45 - 17:30)						
18:00	Hotel check-in (approximate time)						
19:30	Conference dinner at Samfunnssalen in the center of Oslo						





Tuesday 4 June

09:00 09:45	Maaike Taklo, Sonitor Technologies: Unleashing Competitive Advantage by Embracing MEMS Technology Characterisation Thin Film technologies Etching technologies Lithography EDSD (TVD integ (Basic) Thin Film deposition by Lon Basers Stabling (Basic) Hick Baselution Havesonel					
	Alice Bastos da Silva Fanta, DTU	magnetron sputtering: Insights in process development and process control. (Intermediate) Mertin Stefan, VTT	Mats Hagberg, Chalmers	Patterns Fabricated by Dipole Cross Exposure in Deep UV- Lithography and their Applications (Basic to more advanced) Matthias Keil /Meena Dhankar		
10:30	Coffee					
11:00	Characterisation Demo: Analyzing EBSD/TKD data with hyperspy, kikuchipy (Basic/advanced) Håkon Ånes, NTNU	Thin Film technologies Thin film superconductors grown on silicon for single photon detectors by different deposition methods: Molecular Beam Epitaxy versus Sputtering. (Intermediate) Adrian Iovan, KTH	Etching technologies Advanced Plasma Etch (Advanced) James Dekker, VTT	Lithography E-Beam&UV Mix-and-Match Thomas Pedersen /Elena López- Aymerich, Nanolab (Basic to more advanced)		
11.55	Maria Asplund, Chalmers: Bioelectronic microsystems engineering: for patients, for cyborgs and for					
12:30	Lunch					
13:15	Characterisation	Thin Film technologies	Etching technologies	Lithography		
	X-ray diffraction (XRD)	Pulsed Laser Deposition:	SF6/O2 Plasma Etching:	Automated metrology for		
	(Basic) Evgeniy Shkondin, DTU	Superconductors to	process, (Advanced) Maria	(Advanced) Niclas		
	,	Atomically Engineered	Farinha, DTU Use of DoE	Lindvall, Chalmers		
		Interfaces. (Advanced)	in dry etching, Berit	Andreas Liapis, Aalto		
		Chalmers				
14:00	Coffee					
14:15	Peter Böggild, DTU: 2.5D and grayscale nanolithography patterning capabilities					
14:50	Wrap up					
15:15	Bus to Gardermoen					



