

Programme – Training school – MODERN DIRECTIONS IN EPITAXY

Time	Day 1, 21/6-2022	Day 2, 22/6-2022	Day 3, 23/6-2022	Day 4, 24/6-2022
9:00-10:00	Arrival/Registration at DTU	Lab tour	Jean Decobert - <i>The Use of Metal-Organic Vapor Phase Epitaxy in the Preparation of Semiconductor Materials</i>	Luise Theil Kuhn - <i>Analytical high resolution transmission electron microscopy for characterization of nanoscale structures</i>
10:00-11:00	Arrival/Registration at DTU	Lab tour	Peter Bøggild - <i>Epitaxy of graphene</i>	Milan Radovic - <i>Creating and Tuning Electronic states and Phases in Transition Metal Oxides</i>
11:00-12:00	Arrival/Registration at DTU	Lab tour	Wolfgang Braun - <i>Thermal Laser epitaxy</i>	Nini Pryds – <i>Establishing the new national infrastructure for growth of energy materials (EMAT)</i>
12:00-13:00	Lunch	Lunch	Lunch	Lunch
13:00-14:00	Nini Pryds – <i>Welcome (10 min)</i> & Noelle Gogneau - <i>Epitaxy fundamentals and COST action introduction</i>	Chang-Beom Eom - <i>Novel synthesis of defect free complex oxide heterostructures by chemical PLD</i>	Benny Guralnik, Capres - <i>Review of micro four-point probe metrology for the characterization of charge carrier transport and thermoelectric phenomena</i>	Felix Trier - <i>How epitaxial oxide heterostructures can lead to energy-efficient logic devices</i>
14:00-14:30	Break	Break	Break	Break
14:30-15:30	Jesper Nygård - <i>Epitaxy of superconductor-semiconductor nanowires; in situ fabrication schemes and new materials for hybrid quantum devices</i>	Fabio Miletto - <i>Pulsed laser deposition of oxides and other materials</i>	Beena Kalisky - <i>Imaging quantum materials with scanning SQUID microscopy</i>	Closing remarks
15:30-16:30	Bharat Jalan - <i>Navigating Epitaxial Growth of Atomically-Precise Stubborn Metal Oxides</i>	Yamina André - <i>Epitaxy of III-V nanostructures and nanowires by Hydride Vapor Phase Epitaxy (HVPE)</i>	Thomas Sand-Jespersen - <i>Transport/magnetotransport</i>	
16:30-18:00		Poster session	Social event	