

Joint IMEC – Uni Marburg – Dock Chemicals Workshop on *Novel Semiconductor Growth and Characterization*

Thursday, 15.02.2024, HS C (lecture building), Hans-Meerwein-Straße 8, 35043 Marburg

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| 10:00 – 10:10 | Prof. Dr. Kerstin Volz , Uni Marburg
<i>Welcome</i> |
| 10:10 – 10:30 | Robin Güntel , Uni Marburg
<i>MOCVD growth and characterization of 2-dimensional InSe</i> |
| 10:30 – 11:00 | Dr. Oliver Maßmeyer , Uni Marburg
<i>MOCVD growth and characterization of -dimensional materials (GaS & WS₂)</i> |
| 11:00 – 11:20 | Max Bergmann , Uni Marburg
<i>Electron Energy Loss Spectroscopy and Density Functional Theory for quantification of excitonic properties</i> |
| 11:20 – 11:40 | Nils Langlotz , Uni Marburg
<i>MOCVD growth and characterization of 2-dimensional GaSe</i> |
| 11:40 – 12:00 | Dr. Mario Zscherp , Uni Gießen
<i>Molecular Beam Epitaxy of cubic III-Nitrides</i> |
| 12:00 – 13:30 | Lunch break |
| 13:30 – 14:00 | Vitalii Lider , Uni Marburg
<i>Measurement of electric fields and potential drops by 4D STEM</i> |
| 14:00 – 14:20 | Dr. Andreas Beyer , Uni Marburg
<i>Covalently-bonded GaSe on GaP/Si: a new approach for a direct bandgap material on Si?</i> |
| 14:20 – 14:50 | Dr. Bernardette Kunert , IMEC
<i>Nano-Ridge Engineering for III-V device fabrication in a 300 mm CMOS-fab</i> |
| 14:50 – 15:10 | Johannes Haust , Uni Marburg
<i>Electron pair distribution function analysis as tool for quantification of the structure in amorphous materials</i> |
| 15:10 – 15:50 | Coffee break |
| 15:50 – 16:10 | Dr. Stefan Kachel , Uni Marburg
<i>On-surface characterization of MOVPE precursors on sapphire by TPD and XPS</i> |
| 16:10 – 16:30 | Prof. Dr. Carsten von Hänisch , Uni Marburg
<i>Precursor synthesis, antimony hydrides and funny main group element chemistry</i> |
| 16:30 – 16:50 | Dr. Peter Ludewig , Uni Marburg and Dockweiler Chemicals
<i>MOVPE growth of cubic GaN and (Al,Sc)N</i> |
| 16:50 – 17:10 | Dr. Susanne Herritsch , Dockweiler Chemicals
<i>Synthesis of novel Ga and Sc-precursors for the MOVPE growth of GaN and (Al,Sc)N and the challenges when upscaling</i> |
| 17:10 – 17:40 | Dr. Robert Langer , IMEC
<i>Introduction to Imec and the epitaxy activities</i> |