

**SEMINAR:  
Plasma-Process-Technology**

on Wednesday evening, March 15, 2023 / on Thursday, March 16, 2023  
in Berlin-Adlershof in Berlin-Adlershof

at 19:00 Networking-Dinner  
Restaurant Wandel  
Eisenhutweg 118  
14289 Berlin-Adlershof

Location of the seminar:  
**SENTECH Instruments GmbH**  
Schwarzschildstr. 2, Berlin-Adlershof  
Tel.: +49 30 6392 - 5520

**SEMINAR PROGRAM**

**09:00 Welcome and introduction of the program, organisation and SENTECH employees**  
Friedrich P. Witek, SENTECH GmbH, Krailling and SENTECH Instruments GmbH, Berlin

**Etching:**

**09:10 SENTECH Plasma Process Technology – an insight into AlScN and diamond etching**  
Marcel Schulze, SENTECH Instruments GmbH, Berlin  
Friedrich P. Witek, SENTECH GmbH, Krailling and SENTECH Instruments GmbH, Berlin

**09:40 Chlorine based ICP etching of III/V-semiconductors for different applications**  
Christoph Meschenmoser, United Monolithic Semiconductors GmbH (UMS), Ulm

**10:10 Coffee break and time for discussions**

**10:45 Low damage ALE etching of nitride semiconductors**  
Christian Miersch, Fraunhofer-Institut für Integrierte Systeme und Bauelementetechnologie IISB,  
Außenstelle THM, Freiberg

**11:15 Various laboratory applications of ICP-RIE e.g. for metal etching**  
Thomas Werner, Fraunhofer-Institut für Elektrische Nanosysteme (ENAS), Chemnitz

**11:45 Process monitoring and end point detection using various optical in situ metrology**  
Marco Volleth, SENTECH Instruments GmbH, Berlin

**12:15 Lunch and time for discussions**

**Deposition:**

**13:45 PEALD Abscheidung von supraleitenden NbN Schichten / PEALD of superconducting NbN films**  
Marion Hagel, Jürgen Weis, Max-Planck-Institut für Festkörperforschung (MPI-FKF), Stuttgart

**14:15 Plasma Enhanced ALD growth of high-k dielectrics for power electronics**  
Raffaella Lo Nigro, CNR-IMM Institute for Microelectronics and Microsystems, Catania, Italy

**14:45 Coffee break and time for discussions**

**15:20 ALD and PECVD passivation of Supracon devices**  
Katja Peiselt, Supracon AG, Jena

**15:50 ICPECVD: insights into stress control, achieving repeatability in thickness and refractive index, and the impact of gas chemistry on films**  
Xuemei Wang, SENTECH Instruments GmbH, Berlin

**16:30 All participants of the seminar are invited to visit the application laboratories at SENTECH Instruments**

**17:30 End of the seminar**