

Symposium Advanced Application of TEM in Materials Sciences MPI Halle, January 31, 2019



09:45 a.m. – 10:00 a.m. Welcome Opening of symposium Advanced needs of TEM *Stuart S.P. Parkin, MPI Halle, Germany*

10:00 a.m. – 10:45 a.m. Off-axis electron holography: Basics, applications, and perspectives *Michael Lehmann, TU Berlin, Germany*

Coffee break

11:15 a.m. – 12:00 p.m. New methods in quantitative TEM Wouter van den Broek, Humboldt University Berlin, Germany

12:00 p.m. – 12:45 p.m.

Next-Generation Ultrafast Transmission Electron Microscopy (UTEM) Femtosecond resolution with a high coherence electron beam *Armin Feist, University Göttingen, Germany*

Lunch break

02:00 p.m. – 02:45 p.m.

Dark-field electron holography reveals the impact processing steps onto the strain distributions in FDSOI CMOS planar devices *Alain Claverie, CEMES-CNRS, nMat group, Toulouse, France* **02:45 p.m. – 03:30 p.m.** The past and future of TEM at Weinberg Campus *Ralf Wehrspohn, IMWS Halle, Germany*

Afternoon refreshments

04:00 p.m. – 04:45 p.m. Multi-scale observation of catalyst dynamics under reactive conditions *Marc Willinger, ETH Zurich, Switzerland*

04:45 p.m. – 05:30 p.m.

In situ investigations of non-collinear spin textures by Lorentz transmission electron microscopy Rana Saha, MPI Halle, Germany

05:30 p.m. – 06:00 p.m.

Joint panel discussion of all speakers: Present and future of TEM Chair: Stuart S.P. Parkin, MPI Halle, Germany

Dinner

07:00 p.m. – 09:00 p.m. Poster session