

Program I Symposium

January 31, 2019
MPI Halle, Lecture Hall

Advanced Application of TEM in Materials Sciences

09:45 a.m. – 10:00 a.m.

Welcome
Opening of symposium
Advanced needs of TEM

Stuart S.P. Parkin, MPI Halle, Germany

11:15 a.m. – 12:00 p.m.

New methods in quantitative TEM

Wouter van den Broek, Humboldt University Berlin, Germany

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

04:00 p.m. – 04:45 p.m.

Multi-scale observation of catalyst dynamics under reactive conditions

Marc Willinger, ETH Zurich, Switzerland

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

10:00 a.m. – 10:45 a.m.

Off-axis electron holography: Basics, applications, and perspectives

Michael Lehmann, TU 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

02:45 p.m. – 03:30 p.m.

The past and future of TEM at Weinberg Campus
Ralf Wehrspohn, IMWS Halle, Germany

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

07:00 p.m. – 09:00 p.m.

Poster session