Trondheim, Norway

In Situ TEM Workshop June 7

In situ transmission electron microscopy allows for the characterisation and observation of samples in a number of different environments – heat, gas, electrical and liquid.

In conjunction with the SCANDEM Conference, NTNU, DENSsolutions and BoRaS are hosting an In Situ TEM Workshop at NTNU with presentations from leading in situ TEM researchers and practical demonstrations on the microscope.

The workshop aims to attract academic and industry researchers looking to discover new in situ TEM techniques, methods and see the correlating results that can be obtained with such tools.

Presentations will focus on the experiments involving chemical reactions and real-time dynamics of a materials in a heating and/or gas environment.

To close the day, an in situ TEM heating demonstration will take place using the DENSsolutions Wildfire D6 system at the NTNU lab.

A light lunch will be provided.

This event is sponsored by NTNU, DENSsolutions and BoRaS. Registration is at no charge, however, places are limited.

Timetable

Tuesday, June 7th	Topic	Speaker
11:00 - 11:30	Registration & Coffee	
11:30 - 11:45	Workshop introduction	Per Olav Nergaard, BoRAS
11:45 - 12:15	Visualizing Gas-Solid Interactions at Elevated Temperature	Prof. Jakob Wagner, Denmark Technical University
12:15 - 12:45	Ordering of surface functional groups on single 3D MXene sheets at elevated temperatures	Prof. Per Persson, Linkoping University
12:45 - 13:15	The kinetics and dynamics of Au-GaAs solid state replacements studied by in situ TEM	Prof. Antonius Helvoort, NTNU
13:15 - 14:00	Lunch	Sponsored by DENSsolutions
14:00 - 14:30	The dynamics of metal catalysts revealed by in situ electron microscopy	Dr. Marc Willinger, Fritz-Haber-Institut der Max-Planck-Geschellschaft
14:30 - 18:00	Heating Demonstration on the Microscope	NTNU & DENSsolutions

Event Details

Contact
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Location
Realfagbygget, Høgskoleringen 5, Trondheim
Entrances:
Main entrance, South entrance

Address
SCANDEM2016
Department of Physics
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Sponsors

Nordic Microscopy Society SCANDEM 2016 JUNE 7–10 NTNU Trondheim

NTNU Kunnskap for en bedre verden

BoRAS Bilde og Røntgen analysesystemer AS Cameras and Advanced Equipment for TEM

DENS solutions