# Chalmers Advanced TEM/STEM School: 19-21 November, 2018

## Programme

**Monday, 19 November**

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| **12.00 - 13.00** | **Registration (PJ Lecture Hall)** |
| **13.00 - 14.15** | Lecture #1: Imaging in the TEM and STEM |
| **14.15 - 14:45** | Special Lecture #1: Applications of TEM and STEM for photovoltaic materials and devices (Wolfgang Jäger) |
| **14.45 - 15.15** | Special Lecture #2: Electron holography (Martha R. McCartney) |
| **15.15 - 15.45** | **Break** |
| **15.45 - 16.30** | Special Lecture #3: Limits to quantification in the TEM and STEM (Andy Yankovich) |
| **16.30 - 16.45** | Introduction to Chalmers Materials Analysis Laboratory |
| **16.45 - 18.00** | **Laboratory Tour (4 groups)** |
| **18.15** | **DINNER - *ħ* Room** |

**Tuesday, 20 November (Kollektorn Lecture Hall)**

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| **09.00 - 10.15** | Lecture #2: Approaches to microanalysis – EELS and EDX |
| **10.15 - 10.30** | **Break** |
| **10.30 - 11.15** | Special Lecture #4: Cutting-edge applications of aberration-corrected TEM/STEM (Eiji Okunishi) |
| **11.15 - 12.45** | **Laboratory sessions (3 in parallel)** |
| **12.45 - 13.00** | **School photo** |
| **13.00 - 13.45** | **LUNCH – Café Canyon** |
| **13.45 - 15.00** | Lecture #3: High-resolution imaging – theory and practice |
| **15.00 - 15.15** | **Break** |
| **15.15 - 16.00** | Special Lecture #5: *In situ* TEM (Ludvig de Knoop) |
| **16.00 - 17.30** | **Laboratory sessions (3 in parallel)** |
| **18.00** | **DINNER (Sponsored by JEOL) – *ħ* Room** |

**Wednesday, 21 November (PJ Lecture Hall)**

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| **09.00 - 10.15** | Lecture #4: Approaches to aberration correction |
| **10.15 - 11.00** | Special Lecture #6: Exploring resolution limits in the electron microscope (David J. Smith) |
| **11.00 - 11.15** | **Break** |
| **11.15 - 12.45** | **Laboratory sessions (3 in parallel)** |
| **Departure** | |

**Laboratory sessions (90 minutes each)**

ARM – Monochromators (Eiji Okunishi, Masaki Mukai)

Tecnai – *In situ* TEM (Ludvig de Knoop)

Titan – Acquisition and processing of atomic-resolution STEM images (Andrew Yankovich)