

## INFORMATION

- Time: July 21 – 22, 2022
- Location: Virtual lectures on Zoom.  
In-person demonstrations and hands-on experience @ AMLCI (room 106,109), KSU and @ School of Medicine, CWRU.
- FREE Pre-Registration: Click this link  
<http://www.msneo.org/2022summerschool-registration.html>
- Contact: Dr. Min Gao [mgao@kent.edu](mailto:mgao@kent.edu)  
Dr. Rajib Paul [rpaul14@kent.edu](mailto:rpaul14@kent.edu)
- Instructors:
  - ❖ George Osenga (Thierry Plasma)
  - ❖ Dr. Rick Passy (Thermo-Fisher)
  - ❖ Dr. Kunpeng Li (CWRU)
  - ❖ Dr. Robert Clements (KSU)
  - ❖ Dr. Rajib Paul (KSU)
  - ❖ Dr. Min Gao (KSU)



AMLCI TEM (Tecnai G2 F20)

## TENTATIVE SCHEDULE

- July 21 (Thursday), 2022
  - 9:30–10:25 “**Basics of Electron Microscopy**”, Min Gao, Kent State University.
  - 10:30–12:00 “**Cryo-Electron Microscopy: the workflow of cryoEM data collection and evaluating the quality on the fly**”, Kunpeng Li, Case Western Reserve University.
  - 12:00–13:00 **Lunch Break**
  - 13:00–14:15 “**Automating Microscopic Data Analysis**”, Robert Clements, Kent State University
  - 14:20–15:25 “**Plasma Enhanced Chemical Vapor Deposition**”, George Osenga, Thierry Plasma.
  - 15:30–17:00 “**DualBeam (SEM-FIB) Fundamentals for Advanced Material Characterization and Failure Analysis**”, Rick Passy, Thermo Fisher.

- July 22 (Friday), 2022

### Training Camp: In-Person Demonstrations and Hands-On Experience at Kent State University and Case Western Reserve University

Training 1: TEM-SEM-EDS with Dr. **Min Gao** at AMLCI, Kent State University.

Training 2: Cryo-EM with Dr. **Kunpeng Li** at School of Medicine, Case Western Reserve University.

Training 3: AFM, DSC, DLS, Holography Microscope, Raman Microscope, Confocal Laser Microscope, Viscometer, Polarimeter, Refractometer, Zeta potential with Dr. **Rajib Paul** in Anton-Parr Laboratory at AMLCI, Kent State University.



AMLCI Anton-Paar Materials Characterization Lab