



ISM2022 - Pre-Meeting Workshop

“Ultra-high Spatial and Temporal Resolution In Electron Microscopy”

May 16th, 2022

Department of Materials Science & Engineering, Technion

David Wang Auditorium, Dalia Maydan Bldg. 3rd floor

Program

09:45 - 10:00	Get together with refreshments
10:00 - 10:15	<i>Greetings</i> - Prof. Eugen Rabkin, Technion Department of Materials Science & Engineering
MORNING SESSION	
Session Chair:	Ifat Kaplan Ashiri, Weizmann Institute of Science
10:15 - 11:00	Lothar Houben / Weizmann Institute of Science <i>Wave optics in the TEM and STEM and Aberration Correction</i>
11:00 - 11:45	Yaron Kauffmann / Technion - Israel Institute of Technology <i>Analytical Techniques at High Spatial Resolution</i>
11:45 - 12:00	Coffee Break
12:00 - 12:30	Amit Kohn / Tel-Aviv University <i>Every electron counts: Cameras and Detectors for TEM and STEM</i>
12:30 - 13:00	Lunch
13:00 - 13:30	Visit at the Technion Materials Science & Engineering EM lab / ISM Art Exhibition
AFTERNOON SESSION #1	
Session Chair:	Zahava Barkay, Weizmann Institute of Science
13:30 - 14:00	Lothar Houben / Weizmann Institute of Science <i>Model-based (S)TEM image calculation</i>
14:00 - 14:20	George Levi / Tel-Aviv University <i>The art of producing a thin sample (I): Mechanical Polishing</i>
14:20 - 14:40	Galit Atiya / Technion - Israel Institute of Technology <i>The art of producing a thin sample (II): FIB lamella</i>
14:40 - 15:00	Coffee Break
AFTERNOON SESSION #2	
Session Chair:	Maya Barzilay,, Technion - Israel Institute of Technology
15:00 - 15:30	Yaniv Kurman / Technion - Israel Institute of Technology <i>Basics of Ultra-fast EM</i>
15:30 - 16:00	Wayne D. Kaplan / Technion - Israel Institute of Technology <i>In-situ TEM at atomic resolution</i>
16:00 - 16:30	Lei Jin / ER-C Juelich, Germany <i>Quantitative high-resolution imaging and low-dose iDPC</i>
16:30	Departure