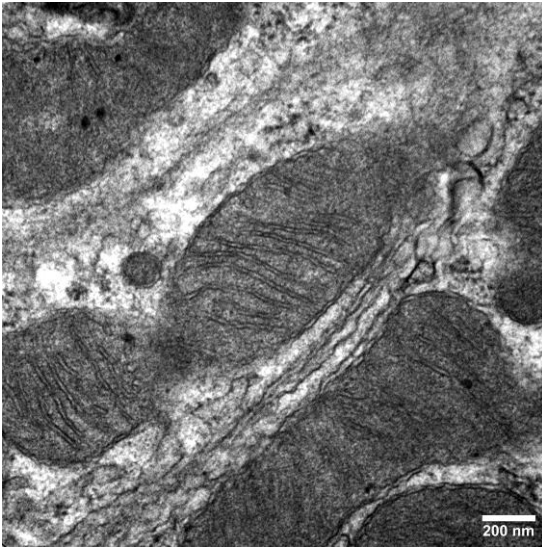


EMS MICROSCOPY ACADEMY

INTRODUCTION TO MICROSCOPY TECHNIQUES WORKSHOP

Examples of the endless possibilities in the field of Microscopy



Details

Tuesday - Thursday
September 15 - 17, 2020
8:30 a.m. - 4:30 p.m.
Hatfield, Pennsylvania, USA

Targeted Participants

Individuals who are new to the field of microscopy with little or no experience with specimen processing, microtomy, or instrumentation.

Scope of Class

This course will give participants an overview of the specimen preparation requirements, basic skill sets, and instrument theory/operation needed to perform as a technician in an electron microscopy laboratory.

The EMS Microscopy Academy

Located in Hatfield, Pennsylvania, the Academy provides electron microscopy classes, workshops and training sessions for all fields of microscopy, including materials science and biological science.

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Format

Lecture, demonstration, and hands-on practice, as well as round table tips and tricks discussions.

Main Curriculum

- Specimen chemical preparation, theory and practical lab work, for OLM, TEM, and SEM
- Sectioning for OLM (0.5 μm), TEM (100-60 nm)
- Critical Point Drying (CPD) and HMDS prep for SEM
- Instrument theory and hands on operation for OLM, TEM, and SEM

Equipment

Hitachi S3500 SEM	Leica UC7 Microtome	Zeiss TEM
Q150T Coater	RMC Power Tome XL	EMS 9000 Microwave
Lynx II Processor	K850 Critical Point Dryer	K750X Freeze Dryer
COXEM SEM EM-30N		

Faculty

Al Coritz has been doing Electron Microscopy for 39 years, beginning at the Yale School of Medicine and ending up on the commercial side with several key EM companies. His specialty is Cryo-techniques and Thin Film Technology: i.e. Freeze Fracture/Rotary Shadowing, High Pressure Freezing, and more He is currently with Electron Microscopy Sciences where he has been the Technical Director for over 20 years.

Michael Kostrna was the program director of the Electron Microscopy Technician program at Madison Area Technical College and has more than more than 35 years in EM technical education and research experience. He has been training EM students for 30 years and has developed curricula and lab exercises for TEM, SEM, OLM, lab safety, introductory and advanced biological EM, EM, maintenance, and x-Ray microanalysis. He has worked with companies such as SC Johnson Polymer, Dow Chemicals, Io Genetics, Virent Technologies, ABS Global, NanoOnocology, and Microscopy Innovations, and in the process gained insight to the various applications of EM.

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Schedule

Tuesday, September 15, 2020

8:30-9:00	Introduction of staff and participants
9:00-10:30	Microscopes, overview of common systems
10:30-10:45	Coffee Break
10:45-12:00	Demo systems on OLM, TEM, and SEM
12:00-12:30	Provided lunch
12:30-1:30	OLM wet prep and Kohler alignment
1:30-2:30	Sectioning demo
2:30-4:30	Thick section + stain for OLM
6.00	Hosted Dinner

Wednesday, September 16, 2020

8:30-9:00	Review of previous day's activities
9:00-12:30	TEM chemical specimen prep (microwave) + Thin section
12:30-1:00	Provided lunch
1:00-2:00	TEM Lecture / demo
2:00-5:00	TEM hands on + sectioning (thick-thin)

Thursday, September 17, 2020

8:30-9:00	Review of previous day's activities
9:00-10:30	SEM prep CPD - HMDS
10:30-10:45	Coffee Break
10:45-12:30	SEM theory lecture
12:30-1:00	Provided Lunch
1:00-2:00	SEM demo
2:00-4:30	SEM hands on
4:30-5:00	Round table discussion and work shop assessment

Schedule subject to change

EMS MICROSCOPY ACADEMY

INTRODUCTION TO MICROSCOPY TECHNIQUES WORKSHOP

Registration Fee: \$1,200.00 Includes

- Workshop syllabus
- All supplies
- Reagents and solutions
- Lunches
- Coffee
- Tea
- Dinner on the first evening of the workshop

Lodging

Participants are responsible for making their own hotel reservations.

The following hotel has been designated as the host hotel:

Homewood Suites

1200 Pennbrook Parkway
Lansdale, PA 19446
Phone: 215-362-6400

The special rate is \$119.00 per night (plus tax) which includes a hot breakfast and a light dinner in the evening.

Please make your reservations and mention you are participating in the EMS Workshop.
GROUP CODE: EMS WORKSHOP

Everyone should plan to arrive the night before class begins.

Enrollment Note

Registration will be limited to a maximum of 15 participants.
EMS will provide samples to those who prefer not to bring their own.

EMS MICROSCOPY ACADEMY
INTRODUCTION TO MICROSCOPY TECHNIQUES WORKSHOP

Printable Registration Form

_____ M / F
Name / Title

Institution

Department

Mailing address

City / Zip

Country

Telephone / Fax

Email:

Will you bring your own specimens? Yes___ / No___ (See Note on prior page)
What Samples are you bringing and most interested in?

All registrations must include payment.
Rate \$1,200.00 per Person
Number of Participants _____
Total \$_____

Pay by check: make payable to EMS and reference "Intro Microscopy Sep20".
Pay by credit card: Credit Card Type _____
Credit Card Number _____
Expiration Date _____ 3 Digit Code _____

Signature / Date

Return your registration to:
Stacie Kirsch
1560 Industry Road
Hatfield, PA 19440 USA
Phone: 215-412-8402
E-Mail: info@emsdiasum.com or Fax: 215-412-8452

TO REGISTER ONLINE, CLICK [HERE](#).