

Cryo In The Sun Sample Preparation Workshop

WHEN: 16th - 20th April, 2018

LOCATION: RMC Boeckeler, Tucson, Arizona

Room Temperature and Cryo Preparation of biological and materials samples for LM and EM imaging

The Cryo-in-the-Sun Workshop will cover many practical aspects of the preparation of samples for both materials and life sciences. This course will provide you with an introduction to practical microtomy, ultramicrotomy and cryo sectioning methods for LM and EM for the wide range of specimens encountered in today's exotic nano-world.

Your training at the RMC facility will include:

Specimen Preparation & Resin Embedding for LM and EM

Hands-on practical experience with microtomes and ultramicrotomes, preparing glass knives and contrasting grids

Cryo sectioning techniques for LM and EM

Imaging and acquisition in optical and Transmission Electron Microscopes.



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Boeckeler Instruments, Inc.

AGENDA

Monday

Lecture - an introduction to ultramicrotomy

Setting the goals of each attendee, including the specimens they would like to prepare and determining ultramicrotomy solutions for each.

Demonstration - presentation of ultramicrotome set-up and basic operation

Hands-on - your chance to start with basic ultramicrotomy techniques

Tuesday

Presentation - embedding techniques

Lecture - advanced techniques for hard specimens

Hands-on - embedding your own specimens

Demonstration and hands-on practical - glass knife making

Lecture and demonstration - the care and use of diamond knives

Hands-on continued - ultramicrotomy, with glass and diamond knives

Wednesday

Introduction to cryo ultramicrotomy of materials and biological specimens

Installation, operation and maintenance of the cryo ultramicrotome

Hands-on UM and cryoUM

Sectioning your own specimens and examination by TEM

Thursday

Every day begins with a review of each attendee's goals and the progress they have made

Lectures on various topics are interspersed with hands-on sample preparation and ultramicrotomy under the guidance of the experienced instructors. Goal to increase know how and prepare and image your own samples.

Friday

Progress review, attendees continue working on their own samples.

Results are presented to the group and strategies for improvement are proposed.

Hands-on work continues in the areas of greatest importance for each attendee.

FEES

The cost of the four and a half day course is \$4,150.

This includes:

All meals during the week of the workshop

Your hotel accommodation

Transportation to and from the hotel

Course tuition

Literature package

Staff time, course laboratory, consumables and EM time

This course is aimed to help you prepare your own samples, so please feel free to bring your own samples.

Please complete the form attached and send it prior to the course to provide us with details of the samples you will be preparing.

Class size limited to 8 students

Registration deadline is March 16th, 2018

Any questions? ...or to register:

Please contact: Bob Chiovetti at bob@boeckeler.com or call him on (01) 520 745 0001