## A SEM Short Course from the AIM Lab, NanoCenter, University of Maryland

# AN INTRODUCTION TO SEM AND EDS FOR THE NEW SEM OPERATOR

The AIM Lab at NanoCenter will be offering a short course in Scanning Electron Microscopy (SEM) during this summer break (June 2022) using our Hitachi SU-70 High Resolution Analytical SEM and Tescan FIB/SEM.

The short course provides an introduction to the SEM for those with little or no prior experience. This course covers basic principles and knowledge of the scanning electron microscope including energy-dispersive x-ray spectroscopy (EDS). In addition to lectures, there will be an emphasis on laboratory exercises that focus on instrument operation and practical applications.

**Date:** June 14, 15, 16 and 17, 2022
**Lecture:** 9:30 am to 12:00 pm.
**Laboratory:** Two hours/group/day (4 days, June 14, 15, 16 and 17, 2022)
**Rooms:** Lecture Room: TBA
Lab: SEM facility, AIM Lab, Kim Building room 1237C/E
**Limit:** Maximum enrollment is 9 (3 lab groups, 3 persons per group)
**Fee:** $385 per person, $350 per person from the same research group and/or participate in the FIB/TEM short course. $200 per person for taking lectures or lab (permission is required from the instructor) only. Fees for non-UMD participants will be different. Please check with the AIM Lab office.

To enroll, please print and fill out the attached application form, and submit to the AIM Lab office by 5:00 pm, June 9, 2022 (Thursday) at room 1234 Kim Building. Students accepted into the class will be informed by e-mail by Sunday (06/12/22).

To encourage all potential users to register for the short course, a discount will be given to individuals if they are affiliated with a research group where other members are also enrolled in the same course or if s/he is attending both TEM and SEM short courses (see TEM short course announcement). * This fee applies to UMD users only. Different fees apply for non-UMD participants; please check with the AIM Lab office. For more information, please contact Wen-An Chiou at (301)-405-0541 or send an e-mail to wachiou@umd.edu.

Please note that all class participants must be fully vaccinated before attending the class. During the class/laboratory, the 4 Maryland protocols (mainly wear a properly fitted mask when required, keep your distance from others, and stay home if you are sick) will continue to follow.

Attachment: SEM Short Course Application Form

## Application Form for UMD Summer (June 2022) SEM Short Course

Name: _____
Last, First Middle Initial

Department: _____

Telephone No.: _____

E-Mail Address: _____

Advisor and/or PI: _____

Payment: Check or KFS No. (7-digit): _____

Course to be attended: ___SEM Short Course_____

Research Topic: _____

_____

Is (are) there any other attendee(s) from your research group?

If yes, please provide his/her Name: _____

Will you also attend TEM and/or FIB short course? _____

Signed: _____(Student) Date: _____

Signed: _____(Advisor/PI) Date: _____