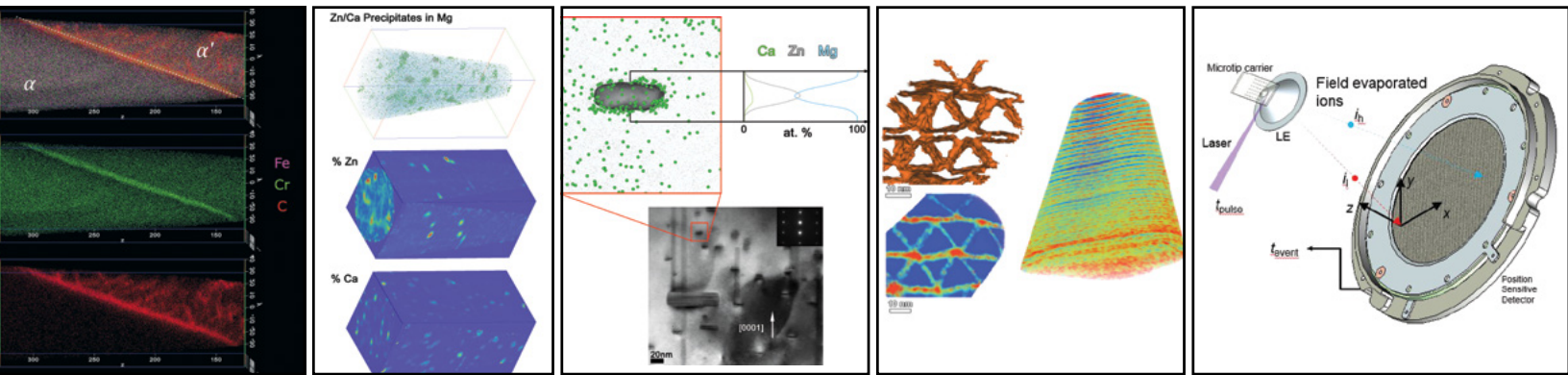


Atom Probe Tomography (APT)

A THREE DAY WORKSHOP in order to introduce the atom probe tomography technique and applications to the local community. The first day, suited for both beginners and advanced users, will consist of seminars by both CAMECA's Engineers and local APT users to provide an insight into using APT to obtain three-dimensional subnanometer compositional information from materials. An introduction will be given on: operation modes, suitable materials, data reconstruction and analysis, and applications. The second day, open for up to **20 participants**, will highlight what is required to obtain high quality APT data. Demonstrations on specimen preparation (both electropolishing and FIB) will be given, as well as hands-on use of IVAS (a data reconstruction and analysis software). On the last day, limited to **5 participants**, a full experiment using APT will be conducted. An option will be given to do the experiment on one of the participant's specimens. This workshop will be delivered by CAMECA's engineers and CAMECA® LEAP 4000XHR™ will be used for the training.



June 9-11, 2014

McMaster University, Hamilton ON CANADA

(detailed location will be published closer to the event).

*Accommodation may be available for registered students. However, it will require a separate registration and under the responsibility of the attendees.

REGISTRATION

Workshop is FREE but space is limited. Please register online by May 26th, at the web address below. For inquiries, email Mor Baram at baramm@mcmaster.ca

TOPICS

- Introduction to Atom Probe Tomography
- Applications of Atom Probe Tomography for various materials
- Specimen preparation for Atom Probe Tomography
- Operation of the Atom Probe
- Optimization of Atom Probe data acquisition
- Mass-to-charge spectrum analysis
- Data reconstruction and calibration
- Examples of data analysis: Clusters and precipitates analysis, proxigrams, iso-surfaces, composition profiles, etc.

<http://ccem.mcmaster.ca/outreach-courses>