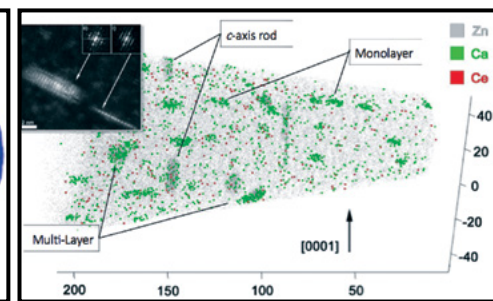
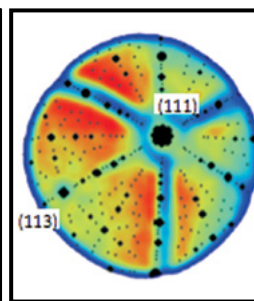
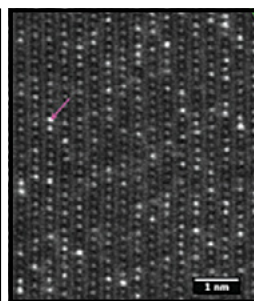
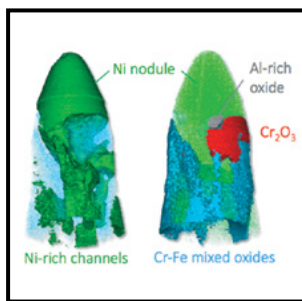
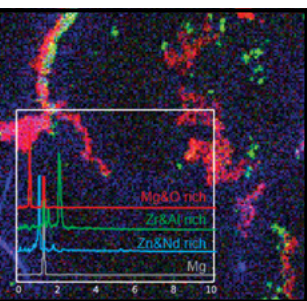


# Advanced Microscopy and Spectroscopy of Metallic Alloys

**THIS MINI WORKSHOP** aims to present applications of state-of-the-art electron microscopy, atom probe tomography and spectroscopic techniques to study the detailed structure and composition of metallic alloys used in automotive, thermoelectric and shape-memory applications.



**June 26, 2015**  
**9:30 a.m. to 12:30 p.m.**

## CanmetMATERIALS

Room 105  
183 Longwood Rd. S.  
Hamilton ON CANADA

## REGISTRATION

Workshop is FREE  
but space is limited.  
Please register by  
visiting the website:

Register  
to ensure  
your spot!

## APPLICATIONS

- Mg and Al alloys
- Thermoelectric Alloys
- Shape-Memory Alloys
- High-resolution analysis of corrosion of Mg alloys
- Internal Oxidation
- Detection of Carbon in Steels

## TECHNIQUES

- High-resolution electron microscopy
- 3D-Atom Probe Tomography
- Statistical analysis of spectroscopic data (SEM/TEM)
- Phase identification with statistical methods
- Electron Energy Loss Spectroscopy of alloys

## INVITED SPEAKERS

Laure Bourgeois (Monash); Brian Langelier (McMaster); Sagar Prabhudev (McMaster); David Rossouw (McMaster); Nick Schryvers (Antwerp); Colin Scott and Babak Shalchi-Amirkhiz (CMAT)

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