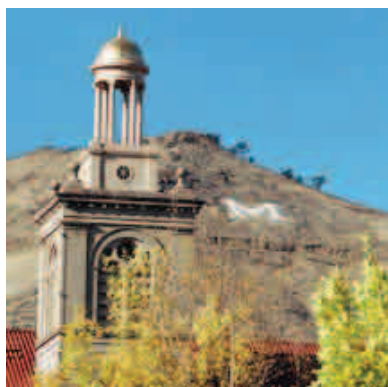




## Microanalytical Reference Materials

MAY 15-17, 2012 • GOLDEN, CO



A Topical Conference of  
the Microanalysis Society



Beautiful Golden, CO and the Colorado School of Mines (CSM) campus is the location of the Microanalytical Reference Materials Topical Conference. Come for the conference and stay for the scenery, outdoor activities, and wild west adventures. We'll have an evening reception in the world renowned CSM geology museum and tour the analytical facilities at CSM.

### Topics To Be Covered

Needs for reference materials (RM)	Tephrochronology Standards
Where to obtain RM	Round Robin Results
Synthesis of RM	Matrix effects in microanalysis
REE Reference Materials	Interference and calibration strategies
Ti in Quartz and Zircon RM	New and old problems with natural calibration materials
Tephrochronology Standards	New directions in isotopes and volatiles in microanalysis

## Participants Needed for a Round Robin for Microanalytical Techniques

The focus of many round robins is typically to test instrument or user proficiency of a single technique or single application. Most investigators, however, employ multiple microanalytical techniques. Difficulties may arise when comparing data obtained from various techniques or when using one set of data for internal calibration for another technique.

A two part round robin has been developed for EPMA, LA-ICP-MS, SIMS, and atom probe. Part one will consist of explicit instructions and materials for analyzing an unknown glass. Part two will be a second unknown glass for the labs to analyze using their standard procedures. APT participants will analyze the glass as well as more typical materials for APT.

If you are interested in participating in this round robin, please contact a member of the organizing committee. Attendance at the Topical Conference is not necessary for participation. However, data will be discussed as part of the Topical Conference program.

### Confirmed Invited Speakers

John Hanchar, Memorial University  
Michael Wiedenbeck, GFZ  
Bill McDonough, U of Maryland

### Organizing Committee

Heather Lowers, hlowers@usgs.gov  
Alan Koenig, akoenig@usgs.gov  
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If you are interested in presenting, please contact a member of the organizing committee