

Advanced Techniques in EPMA Seminar, Eugene Oregon, August 7, 2010

<p>Cameca SX50, 4 WDS, Bruker SDD</p> <p>Bruker 10 sq mm, SDD Esprit 1.8.5</p>	<p>Cameca SX100, 5 WDS, Thermo SDD</p> <p>Thermo 10 sq mm SDD, System7 NSS 2.3</p>	<p>FEI Quanta with Thermo SDD and HKL EBSD</p> <p>Thermo 30 sq mm SDD, System7 NSS 2.3</p>
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**9:00:00 AM
Morning
Presentations**

<p>9:00</p>	<p>Paul Carpenter (Washington University) "Advanced Quantitative Analysis"</p>
<p>9:30</p>	<p>John Fournelle (University of Wisconsin) "Why is it sometimes so hard to get good EPMA analyses (good totals AND stoichiometry) for {some} garnets?"</p>

10:00-10:30 Coffee Break

<p>10:30</p>	<p>Michael Jercinovic and Julien Allaz (University of Massachusetts) "MultiPoint Backgrounds for Improved Trace Element Accuracy: Application to U, Th and Pb measurement in monazite"</p>
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<p>11:00</p>	<p>Dale Newbury and Nicholas Ritchie (NIST) "Quantitative SDD-EDS Microanalysis at WDS Precision: What Are the Possibilities?"</p>
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<p>11:30</p>	<p>Nicholas Ritchie (NIST), Modeling secondary Fluorescence</p>
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<p>11:45</p>	<p>Mineral Liberation Analysis (MUN), Michael Shaffer</p>
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12:00 - 13:00 Lunch Break

1:00:00 PM
Afternoon
Laboratory
Demonstrations

	John Fournelle, SX50: Demonstration of Advanced Quantitative Analysis in Garnets and Silicates	Julien Allaz/John Donovan, SX100: Demonstration of Multi-Point Backgrounds in Complex Materials	Dale Newbury/Nicohlas Ritchie, Quanta SEM/SDD/EDS: Demonstration of high count rate Quantitative EDS
13:30	SX50: Demonstration of Advanced Quantitative Analysis in Garnets and Silicates	SX100: Demonstration of Multi-Point Backgrounds in Complex Materials	Quanta SEM/SDD/EDS: Demonstration of high count rate Quantitative EDS
14:00	SX50: Demonstration of Advanced Quantitative Analysis in Garnets and Silicates	SX100: Demonstration of Multi-Point Backgrounds in Complex Materials	Quanta SEM/SDD/EDS: Demonstration of high count rate Quantitative EDS

14:30 - 15:00 PM, Coffee Break

15:00	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest
15:30	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest
16:00	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest
16:30	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest	Group Discussion- Questions, Ideas, Suggestions, and other items of general interest