

**Capabilities, Limitations and Opportunities in Micro-CT Imaging Workshop**  
**Thursday, June 17, 2010 (half day workshop)**

**Description:** X-ray Micro-computed tomography (micro-CT) has rapidly become a common biomedical research method with a particularly profound impact in the area of bone imaging. While synchrotron-based micro-CT offers distinct advantages, ever-improving conventional technology is closing the gap. This workshop will overview the current state-of-the-art in conventional micro-CT, including its capabilities and limitations. It is within this context that unique research opportunities, which a potential micro-CT beam line at the CLS might enable, should be identified.

**Organized by:** David Cooper, University of Saskatchewan

**Location:** Gallery B, TCU Place, Downtown Saskatoon

<b>Time</b>	<b>Speaker/Affiliation</b>	<b>Title</b>
8:00	<i>Registration</i>	
8:30	Steven Boyd, University of Calgary	"In vivo imaging and investigation into the effects of anti-osteoporosis treatments on bone quality"
9:00	Benedikt Hallgrímsson, University of Calgary	"Computed Microtomography and the Morphometrics of Development"
9:30	David Cooper, University of Saskatchewan	"3D Micro-CT of Cortical Bone Microarchitecture: Laboratory Capabilities and Synchrotron Opportunities"
10:00	<i>Coffee Break</i>	
10:30	David Holdsworth, University of Western Ontario	"Anatomical and functional imaging in live rodents using laboratory micro-CT"
11:00	Michael Doschak, University of Alberta	"Investigation of strontium drugs as "in vivo" tracers of bone turnover: Characterization by Electron Probe Microanalysis (EPMA), Instrumental Neutron Activation Analysis (INAA), and Micro-Computed Tomography (Micro-CT)"
11:30	<i>Discussion</i>	
12:00	<i>Lunch</i>	

Direct Program Related Inquiries to: David Cooper, [dml.cooper@usask.ca](mailto:dml.cooper@usask.ca)