



Australian Acoustical Society

A.C.N. 000 712 658

SOUTH AUSTRALIA DIVISION

ABN: 28 000 712 658

TO ALL AAS MEMBERS and interested parties

TECHNICAL MEETING

7:30pm 14th November 2007

Noise and Vibration Design of Monash Centre for Electron Microscopy (MCEM)

by

Mr. Matthew Stead

National Manager Acoustics Australia

BASSETT

The MCEM building is a purpose-built, high stability building which is currently nearing completion. It will provide a world class, ultrastable environment to optimise instrument performance.

The mechanical, electromagnetic, thermal and acoustic stability specifications for ultrahigh resolution microscopes are exceptionally demanding. The building will be one of the most stable such buildings worldwide.

The design process included extensive liaison with major international facilities on their building design.

The MCEM suite of advanced instrumentation can determine the composition, structure and bonding of materials down to the atomic scale. The building will house the highest resolution microscope in Australia and one of just a handful worldwide. MCEM supports transmission electron microscopes, scanning electron microscopes and a three-dimensional atom probe.

This presentation will provide an overview of the noise and vibration design for this critical facility.

The meeting will commence at **7:30pm** in the H.H. Davis Room, Department of Mechanical Engineering, Engineering South Building (see university map below). Parking is available on Victoria Drive.

Anyone interested in attending the meeting is encouraged to also join us prior the meeting for dinner and drinks at Caffe Buongiorno, 187 Rundle Street, at **6pm** beforehand.

Please RSVP to Luke Zoontjens via luke.zoontjens@mecheng.adelaide.edu.au, to help us organise the event.

PLACE: H.H. Davis Room, Level 1, Engineering South Building, The University of Adelaide, North Terrace Campus.

TIMING: 7:30pm 14th November, 2007



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