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# THE AUDIO ENGINEERING SOCIETY BULLETIN



NOVEMBER 2008

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## Research presentations and lab tours **McMaster Institute for Music and the Mind** *Dr. Laurel Trainor and associates*

<b>date</b>	<b>Tuesday, 25 November 2008</b>
<b>time</b>	<b>7:00 PM</b>
<b>where</b>	<b>Psychology Building, McMaster University Campus, Building #34</b> College Crescent, McMaster University, Hamilton, ON
	Goto <a href="http://www.torontoaes.org">www.torontoaes.org</a> for <a href="#">Google Directions</a> , <a href="#">Campus Map</a>
	Pre-meeting dinner, 5:00 p.m. at Snooty Fox, 1011 King St. W. Hamilton, ON

**Dr. Laurel Trainor**, director of the McMaster Institute for Music and the Mind and a professor in the Department of Psychology, Neuroscience and Behaviour will present "Overview of the McMaster Institute for Music and the Mind", and "Measuring the development of musical pitch and rhythm", an overview of her pioneering work on the development of music perception using behavioural, EEG, and MEG methods.

This will be followed by "Neural Control of Vocalization" with Steven Brown, "Biomedical engineering approaches to studying and treating hearing loss" with Ian Bruce, Electrical Engineering, "Estimation of ERP Signal from Infant EEG data in a Presence of High-Amplitude Artifacts" with Nasser Mourad, graduate student in Electrical Engineering. Alternating tours will be offered of the Infant psychophysics and EEG testing labs (Laurel Trainor & students), and the "Bat sound location lab" (Paul Faure).

### About the Institute for Music and the Mind

A group of researchers at McMaster University, under the direction of Dr. Laurel Trainor, including music theorists, musicians, psychologists, neuroscientists, mathematicians, kinesiologists, health scientists, and engineers have created the Institute for Music and the Mind.

The aim of this institute is to create a world-class facility where musicians, scientists, and researchers can work together to study questions about the physical structure of music, the evolution of music, the neural processing of music, the performance of music, and the perception of music.

Further questions concern how the auditory and motor systems interact to produce music, how performers synchronize with each other, how people encode and recognize music, and how groups in society are defined by the music they play. Critically, the developmental neuroscience perspective will inform the research community on how music induces emotional reactions, how musical experience and training affect brain development, and how musical training/exposure affects language, cognitive, and social abilities in both children and adults.

This institute brings together science and the arts in a unique and innovative way, with the goal of enhancing the scientific study of music across Canada and internationally.

The MIMM website is <http://mimm.mcmaster.ca/index.htm>

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