

2006-2007
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Presentation

Musicians and Hearing Aids

Marshall Chasin, Musician's Clinic of Canada

date time where	Tuesday, 24 April 2007 7:30 PM
	Rogers Communication Centre, RCC-359 A and B 80 Gould Street, Toronto, ON Campus Map: www.ryerson.ca/map Parking Info: www.ryerson.ca/parking Pre-Meeting "Dutch Treat" dinner: 5:15 pm at the Pickle Barrel (corner of Edward and Yonge in the Atrium)

This talk will cover the minimum electro-acoustic requirements that all hearing aids should possess in order to be used for listening to, or playing music. Traditional modifications such as a "music program" have severe limitations. Many manufacturers simply alter the bandwidth or change the frequency response, and while this may result in slight improvements, the resulting program will almost certainly be less than optimal.

Suggestions for selecting the "front end" of a hearing aid either by the use of specialized (but currently available circuitry), or a modification to the microphone or microphone input will improve the listening to, and playing of, loud music. Suggestions will be given for the output and gain for a "music program" and how this may differ from a "speech in quiet program". This will be based on crest factor and bandwidth arguments. Suggestions will also be given for the setting of compression, noise reduction, and feedback control selection will be given along with both theoretical and clinical explanations.

The use of open mold BTEs will be discussed that would optimise the listening to, or playing of loud music, even for those musicians with up to a moderate sensori-neural hearing loss. Modifications will be given that would minimize distortion in these hearing aids.

Dr. Marshall Chasin, AuD, M.Sc., Reg. CASLP, Aud(C) is an Audiologist and the Director of Auditory Research at the Musicians' Clinics of Canada in Toronto, Ontario. He is also the Co-ordinator of Research at the Canadian Hearing Society, Director of Research at ListenUp Canada, Adjunct Professor at the University of Toronto (in Linguistics) and an Associate Professor at the University of Western Ontario (School of Communication Sciences & Disorders).

Marshall has been involved with hearing and hearing aid assessment since 1981 and is the author of over 200 clinically based articles. He has lectured extensively, and is frequently on TV and radio (he's the good looking balding guy sometimes on Much Music). Marshall is the author of several books, including "Musicians and the Prevention of Hearing Loss" (1996), the "CIC Handbook" (1998) and "Noise Control - a primer" (1999) (all through Singular Publishing Group.) Marshall also wrote "Hear the Music" (2001, 2006).

The Toronto AES Section Bulletin is published ten times yearly by the Audio Engineering Society Toronto Section and is available on the Internet at www.TorontoAES.org

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