

OCTOBER 2005

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Submissions are welcome. Articles may be reprinted with the author's permission. Space is available for AES related companies and individuals wishing to address our members. For submissions, advertising rates or other info, email TorontoAES@TorontoAES.org.

Professor Stanley Lipshitz
The Rise of Digital Audio
The Good the Bad and the Ugly



Professor John Vanderkooy
119th AES Convention
Review of Papers

Date: Tuesday, October 25, 2005
Time: 7:30 pm
Where: Harris Institute for the Arts
118 Sherbourne Street
Toronto, Ontario

Pre-Meeting "Dutch Treat" dinner 5:30 pm at the Montreal Bistro, northeast corner of Sherbourne and Adelaide St.

Metalworks Institute and Digidesign
DigiDays Toronto

A three-day stream of audio knowledge

www.digidays.ca

Date: October 27-29, 2005
Time: All Day
Where: Metalworks Institute
3611 Mavis Rd
Mississauga, Ontario

Scheduling and registration

Registration to the events is required and space is limited. Goto www.digidays.ca for details.

Invitation to a special AES Brunch

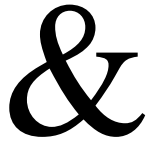
Digidesign is inviting the AES members to a Saturday October 29th morning brunch at DigiDays, from 10 AM to 12 PM. We hope to see you there!! (Please RSVP to lbougeois@digidesign.com).

PLEASE POST - MEMBERS AND GUESTS WELCOME

Professor Stanley Lipshitz
The Rise of Digital Audio
The Good the Bad and the Ugly

In his talk titled, "The Rise of Digital Audio: The Good, the Bad, and the Ugly," **Stanley Lipshitz** will take his audience on an inspiring journey back to the beginnings of digital audio. This talk will offer a deep insight into the early problems that the new technology suffered from--and how they have been solved.

Known for his thought-provoking and humorous style of presentation, Lipshitz will draw a fine distinction between imaginary and real deficiencies when dealing with digital audio in the past, followed by a forward-looking inquiry into digital audio's current status. Spotlighting the effects of band-limiting, anti-aliasing and reconstruction filters, he will conclude his inquiry on today's digital audio with the question: "Are there any real problems left, or have all the dragons been slain?" Attendees may expect nothing less than a profound answer given by one of the most distinguished experts in pro audio today.



Professor John Vanderkooy
119th AES Convention
Review of Papers

John Vanderkooy is back once again to give us a review of the papers presented at this year's AES convention in NY. For those who couldn't attend the convention, this is an excellent opportunity to get an overview of the papers presented in an informative and digestible format.

About this month's presenters...

Professor Stanley Lipshitz

Lipshitz is a professor in both the departments of Applied Mathematics and Physics at the University of Waterloo in Waterloo, Ontario, Canada. He is one of the founding members of the Audio Research Group at the University of Waterloo, together with his colleague, John Vanderkooy, and they conduct research in many areas of audio and electroacoustics. His current research interests include the mathematical theory of dithered quantizers, noise shapers, and sigma-delta modulators (and their connection with stochastic resonance and chaos), physical acoustics, electroacoustics, transducers, and active noise control. He is a Fellow of the Audio Engineering Society, a recipient of its Silver Medal for his research contributions to digital audio, and of its Publication Award (jointly with John Vanderkooy and Robert Wannamaker) for a paper on quantization and dither.

Lipshitz has served as a Governor of the AES, and was its president in 1988-89. He has presented numerous technical papers, on a wide range of topics, at conferences both in North America and overseas. As vice-president of the Kitchener-Waterloo Chamber Music Society, he records and broadcasts more than 50 local classical-music concerts annually, and has been doing so digitally for over 20 years.

Professor John Vanderkooy

John Vanderkooy was born in The Netherlands in 1941, but received all of his education in Canada, with a B. Eng. degree in engineering physics in 1963 and Ph.D. in physics in 1967, both

from McMaster University in Hamilton, Ontario. For some years he followed his doctoral interests in low- temperature physics of metals at the University of Waterloo, where he is currently a professor of physics. However, since the late 1970s, his research interests have been mainly in audio and electroacoustics.

A fellow of the AES and a member of the IEEE, Dr. Vanderkooy has contributed a variety of papers at conventions and to the Journal. Together with his colleague Stanley Lipshitz and a number of graduate and undergraduate students, they formed the Audio Research Group at the University of Waterloo.

Dr. Vanderkooy's current interests are digital audio signal processing, measurement of transfer functions with maximum-length sequences, transducers, diffraction of loudspeaker cabinet edges, and sub-surface analysis techniques using maximum-length sequences.

Metalworks Institute and Digidesign

DigiDays Toronto

A three-day stream of audio knowledge

www.digidays.ca

What is DigiDays Toronto?

DigiDays is three days of free, in-depth, hands-on audio knowledge with renowned audio artists and specialists in one of North-America's top recording facilities. Over 30 events designed to help you improve your craft and try out the latest innovations. Master-classes, presentations, hands-on workshops and demos include a variety of topics from remote recording to mastering.

Guest speakers are some of Canada's top talents and production heavies as well as internationally renowned ears and 'audio brains'. More than 10 conferences given by special guest presenters who are recognized artists and specialists in their field. It's all happening in a world-class facility voted many times 'Canada's best recording studio' and is now Digidesign's only authorized training center in Eastern Canada; a full range Pro School featuring the world's largest ICON configuration.

Event topics will cover advanced post-production, studio tracking, live FOH mixing, live recording, mixing, music creation, songwriting, mastering, and special application classes with product designers and specialists, as well as training sessions. The sessions and schedule are designed to offer participants many options and sustained time to learn and interact with peers, presenters and tools.

Guest speakers include:

- **Nick Blagona on Mastering**
- **Scott Purdy**, award-winning **film mixer**
- **Songwriter/producer/remixer/programmer extraordinaire, Justin Grey**, on songwriting in the digital age.
- **Alfio Annibalini**, on **studio tracking**.
- Live Recording, with **Doug McClement** of **LiveWire Remote Recorders** and a tour of the LiveWire mobile studio.
- **Michael Nunan**, head of sound post-production at CTV on **Pro Tools for 5.1 HDTV broadcast**
- **Graham Brewer** on mixing 5.1 for DVDs and more

Training/hands-on

- **ICON Master-class**, hands-on, with Digidesign consoles specialist, **Gil Gowing**
- **ICON sessions**. Intimate sessions on ICON D-Control, with **Alfio Annabalini** and **Luc Bourgeois**.
- **Pro Tools intro class**, with musician & producer **Mark Capoferri**.
- **Venue**, hands-on live mixing, with **Mike Davidson** of Contact Distribution
- **Virtual synths training** with **Lyle Crilly**
- **Studio tracking** of a live band, with **Alfio Annabalini**, in Metalwork's studio 1

Technologically speaking

- A special 3-part series by **McDSP** chief technologist, **Colin McDowell**
- **Eric Klein** will talk about the use of **Waves**, **Eventide** and **URS** plug-ins
- **Lyle Crilly** will present **Native Instruments'** popular virtual synths and processors, and **Celemony's** revolutionary Melodyne software.
- **Isotope's** Specialist Charlie Huguenard will be showing Ozone 3, a 64-bit Integrated Mastering System with Analog Modeling
- **Soundminer** audio asset management system will be presented by Soundminer president and audio post-production veteran, **Steve Pecile**

Digi stuff

- **Brian Doser** showing **Pro Tool HD 7** for the first time in Canada. A detailed view at our biggest upgrade ever.
- **Plug-in applications on Pro Tools HD**, also with **Brian Doser**
- **Jay Reagan** on beats, looping and remixing creatively with **Pro Tools 7**
- The **Venue** system will be on display, available for use, everyday

FOR MORE INFORMATION:

lbourgeois@digidesign.com
Digidesign Senior Product Specialist
www.digidays.ca

The Lenbrook Group



633 Granite Court
Pickering, ON L1W 3K1
Fax: 905 837-6352
humanresources@lenbrook.com

**Audio/Video Technician -
NAD Electronics - File #516**

Reporting to the NAD Director of Product Development, this position is suitable for someone with a minimum of 3-5 years technical experience with consumer audio and video products. This position would suit an experienced service engineer who wants to widen his/her technical experience (minimum C.E.T. certification required).

**Working with the NAD Design Development Team—
Responsibilities include:**

- Evaluation and fault finding on prototypes and production samples of audio and video equipment, and producing written reports on the findings
- Building test circuits, prototypes and debugging

Qualifications:

- A thorough knowledge of stereo equipment with a basic understanding of digital, mechanical, and analog design
- Practical experience in the servicing of audio and video equipment is an asset
- An understanding of audio and video technical specifications
- An aptitude for creative solutions
- Familiarity in the correct use of test equipment such as VOM's, oscilloscopes, and distortion analyzers is required
- Proficiency in MS office XP
- Ability to work with minimal supervision

For complete details: www.lenbrook.com/opportunities/

If you are interested in pursuing this opportunity, please submit your resume, quoting File #516. Only applicants selected for an interview will be contacted. We thank all others for their interest. No phone calls or agencies please.

MARK YOUR CALENDARS: Upcoming Confirmed Toronto AES Meetings

- Tuesday, November 8: Joint AES/SMPTE on Audio for HDTV and Surround
- Tuesday, December 13: Sean Olive and Floyd Toole, Harmon International

TORONTO AES BULLETIN ADVERTISING RATES

Full Page (7 1/2 x 10) - \$150
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Quarter Page (3 1/2 x 5) - \$40
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Contact BulletinEditor@torontoaes.org for more information.