



AUDIO ENGINEERING SOCIETY BULLETIN

MEETING: Monday, March 25th, 2003 - 7.30pm.

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2002-2003 AES TORONTO SECTION EXECUTIVE

CHAIRMAN **JIM COX**
Sheridan College
(905) 845-9430

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TGI North America
(519) 745-1158

CONTACT SEC'Y **ANNE REYNOLDS**

MEMBERSHIP **MIKE BORLACE**
Kinescope Productions
(905) 891-0402

BULLETIN EDITOR **ANNE REYNOLDS**
Deluxe Laboratories
(416) 957-6204

COMMITTEE
MEMBERS **PETER COOK**
CBC Broadcast Centre
(416) 205-2317

RON LYNCH
DekTek
(416) 266-2377

DAN MOMBOURQUETTE
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(416) 222-2447

MARC KOECHER
(416) 888-1850

TORONTO SECTION THE AUDIO ENGINEERING SOCIETY PRESENTS...

AN OVERVIEW AND TOUR OF THE CHIP MAKER GENNUM CORPORATION'S DESIGN AND MANUFACTURING FACILITIES

Tuesday, March 25th, 2003 - 7:30 pm

Genum Corporation - 970 Fraser Drive, Burlington

Directions: Exit from Queen Elizabeth Way on Walker's Line South to Harvester Rd. (1st lights.) Turn left on Harvester. Fraser is the first street on the left.

Pre-Meeting "Dutch Treat" dinner 5:30 pm
Turtle Jacks - 4155 Fairview St., Burlington 905-633-9464

Directions: Exit from Queen Elizabeth Way on Walker's Line South to Fairview St (2nd lights.) Turn left on Fairview. -Tel:

You must pre-register for this event by calling National Mail Box at (416) 922-8122 by Friday, March 21st. Please note that we will not be able to admit you if you haven't pre-registered.

What's Inside:

Preview: March '03 - A TOUR OF GENNUM CORPORATION

Reviews: Jan'03 - LARGE FORMAT LIVE DIGITAL CONSOLES

What's Up!

Mark Your Calendars:

April 22nd '03 - TBA

June 7th '03 - FROM THE PRODUCERS' CHAIR- day long event for, 03 - See *What's Up* for more important information

IMPORTANT NEWS: YOUR TORONTO SECTION GOES GREEN!!

PLEASE POST - MEMBERS AND GUESTS WELCOME

AN OVERVIEW AND TOUR OF THE CHIP MAKER GENNUM CORPORATION'S DESIGN AND MANUFACTURING FACILITIES

Gennum began its life as an integrated circuit (IC) manufacturer specializing in meeting the needs of the Hearing Aid industry. Today the organization also plays a key role in fulfilling the demanding requirements of the professional video market, and has leveraged its understanding of high speed design issues to enter the 10+ gigabit serial data communication arena. Using a blend of both internal wafer fabrication and "offshore" megafab capabilities, Gennum is fairly unique in the semiconductor industry - particularly within the Canadian high tech sector. While both the Video and Datacomm segments use a variety of traditional IC packaging technologies, the Audio group has found a niche for its small multichip packaging in applications where space is extremely critical.

The audio group, or Hearing Instrument Products (HIP) group as it is formally known, focuses on the design, manufacture, and software support of arguably the smallest, low power, high performance audio amplification systems in use today. The combination of "best in class" Analog to Digital Converters, audio specific DSP, Non Volatile Memory and Digital Power amplifiers is what keeps us coming to work each day! Making the system fit into a small box measuring a mere 5 X 3 X 1.5 mm and being able to run for about 2000 hours on a AA battery is what makes it really interesting. While the most common application is still Hearing Aids, it is only a question of time until this technology expands into broader fields.

The overview presentation will provide a better understanding of the performance achieved and the challenges faced by the designers. The tour of the clean room facilities and assembly areas will provide an appreciation of the sophistication involved in microchip manufacturing and testing.

This is a reminder that you must pre-register for this event.

Review: Large Format Live Digital Consoles...The State of the art - Jan '03

About forty members attended the January meeting at the Ryerson School of Image Arts, which featured the current state-of-the-art digital live sound consoles. Participating manufacturers included InnovaSon, Digico, and Yamaha.

After a quick overview from all three exhibitors, attendees voluntarily

Review Cont...

divided in to three groups for half-hour demonstrations. All three consoles feature a control surface, with the "brain" and the I/O sections in nearby racks connected via digital umbilical cords. They all feature snapshot recall of all parameters, the ability to store multiple setups, and motorized faders.

The **Yamaha PMID** is the culmination of over a decade of experience in the manufacture of digital consoles for the recording market. Yamaha received a lot of input from live sound engineers and rental houses across North America, and have produced a user-friendly board that is not difficult to operate for engineers familiar with large format analog consoles.

There are already at least 200 PMID's in use worldwide, and user feedback indicates that the consoles are rugged and reliable. The console is the largest of the three, and is available with 48 or 96 inputs. A "Selected Input Channel" section allows adjustments to four-band parametric EQ, effects sends, a compressor and gate on each channel, and 24 mix busses. There is up to 250msec delay available on each input. Twenty-four graphic EQ's are available for output processing.

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The **innovaSon** consoles take up a very small footprint which makes both roadies and concert hall owners happy. The Compact Live features 32 inputs, and the Grand Live has 48. Standard features include 5 band parametric EQ, up to 24 outputs, and dynamics on each channel. They are manufactured in France, and have become very popular with touring acts over the past few years, including Toronto's own Barenaked Ladies. The console is sold with a stage box which contains the mic preamps, using a fibre-optic snake to feed data to the control surface via the audio racks.

innovaSon supplied four consoles for last year's Juno Awards, which were used in both remote trucks for the broadcast mix, as well as at

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All submissions are welcome!

**Please e-mail them to Anne Reynolds at
<a.reynolds@sympatico.ca>**

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Review Cont...

the FOH and monitor positions, greatly cutting down of the real estate formerly taken up by six large format analog boards. Given the large number of features, and the compact design, its relatively low price will ensure its success.

The **Digico D5** is the "new kid on the block", but the console is based on the Soundtracs digital studio board, which has become the affordable alternative for recording studios wishing to purchase a fully equipped digital console without having to spend half a million dollars.

Though similar in features to the other two boards, the D5 has four touch sensitive video screens, which allows for monitoring different parameters without having to scroll through menus or turning knobs. This is a major problem with many other brands, as analog trained engineers like to have as much information in front of them as possible. The Digico is available in 56 and 96 input versions. A hot-swappable auto-switching redundant power supply gives the system a high degree of reliability. A miniature USB key allows quick interfacing with a PC.

For more details, visit www.digiconsoles.com, www.innovason.com, or www.yamaha.co.jp/english. Thanks to Ashley Clarke from Yamaha, Marc Vincent and Colin Bernard from Sennheiser, Canadian distributor for Innovason: and Dave Dysart from HHB, who distribute Digico. It was a most interesting and informative evening.

by: Doug McClement, Cub Reporter and long standing friend of the Executive Committee

WHAT'S UP!

IMPORTANT NOTICE FROM YOUR TORONTO SECTION! The Toronto Section Goes Green!!!!

The Toronto Section started sending your meeting notice via email in February. If you did not receive an e-mail from the Toronto Section please send an e-mail immediately with your name and e-mail address to: <TorontoAES@vex.net>.

If you do not have access to e-mail please call: Anne Reynolds at (416) 467-1901 and leave your name, membership number and phone number or approach anyone on the Executive at the next meeting.

FROM THE PRODUCERS' DESK

Toronto Section's Day Long Event for 2003

Come spend a day discussing different recording techniques for the various genre's of music: Classical, Jazz, Pop, Rock and Live International Telecasts with some of the world's leading producer

Confirmed todate: David Greene, Bob Ezrin

Date: Saturday, June 7th, 2003

Venue: Toronto's historic Theatre D at Davisville and Mount Pleasant

AES TORONTO SECTION ANNUAL ELECTIONS

Nominations are now being accepted for positions on the 2003-2004 AES Toronto Section Executive Committee. All interested parties are asked to make themselves known to one of this year's Executive at our next Section Meeting or by e-mail to <TorontoAES@vex.net>. Join the team and contribute to North America's 3rd most active Section

HELP WANTED!

The Executive Committee needs your feedback! If you have any thoughts or comments on how you think we are doing, meeting suggestions you would like to see, we encourage you to e-mail your comments to <TorontoAES@vex.net>.

WHAT'S NEW WITH YOU?

Looking to fill a position, looking for a job, new or used products to sell or promote, company news to impart? Drop a line to our e-mail address attention Anne Reynolds. Remember, members can advertise in our classified section for free. Please see our Rate Card for details

MEMBERS WANTED!

Renew your membership online at <www.aes.org>

BROADCAST FAX LIST

If you would you or your company would like to be added to our monthly broadcast list announcing our Section meetings, please e-mail your fax number to <TorontoAES@vex.net>.

By Michael Borlace, Committee Member

BANFF HOSTS THE 24TH INTERNATIONAL CONFERENCE June 26 - 28, 2003

Multichannel Audio - the New Reality

The 24th AES International Conference brings together audio engineering professionals, researches, academics, and manufacturers for further discussions on the art, science, and future of multichannel audio. For general inquiries please e-mail: <24th_info@aes.org> or Website: <www.aes.org/events/24>.

MUSIC FOR FILM AND TELEVISION - Humber Collage

A two-day journey into the most subjective and often misunderstood component of a soundtrack: Music & Sound Design, The Process and The Players, The Time, Space and Budget Continuum, Production, Delivery and The Final Mix, Publishing, Rights and Royalties

Instructor: Emmy Award Winning Producer/Engineer David Greene

Suitable for: Producers, Directors, Editors, Composers and Musicians; anyone involved in the filmmaking process.

Date: March 29th and March 30th, '03 - 9:30am to 5:00pm

How to Register: By phone (416) 798-1034 (Visa or M/C)
Please quote Course Code: PPFT010

EARLY BIRD SPECIAL: Register before March 10th for \$229.00 or after March 10th for \$259.00.

For more information or registration, log on to our website, www.post-production.humberc.on.ca and look under "Training Options".

AES 24th Intl. Conference
Banff, Alberta
June 26 - 28, 2003
Multichannel Audio
The New Reality