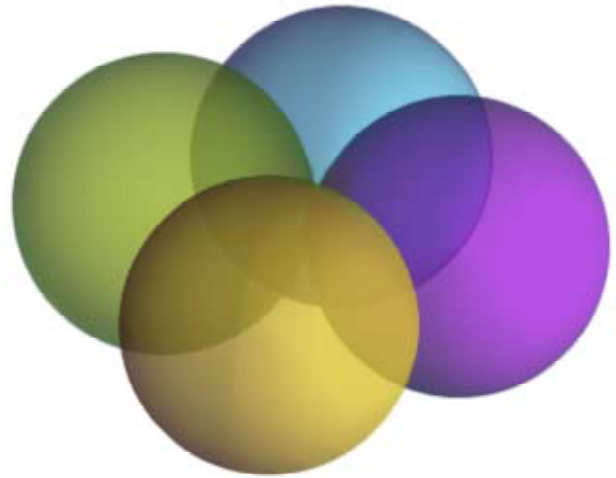


As part of OBORO's Audio Workshops Series,
New Media Lab presents

A Global Approach to Three-Dimensional Sound Production

with **Daniel Courville**

October 4-5; 11-12; 25-26, 2008



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Increasingly, surround sound is being incorporated into media and artistic productions. Because sound content on DVD-Video and HDTV is invariably *multiphonic*, multimedia artists must consider this potential in the creation and production process. However, those who wish to appropriate the technology and integrate it into their approach may be intimidated by the large number of formats, in terms of signal encoding, broadcast standards and distribution media. There is a solution to all the questions raised by working in multiphonic sound: the Ambisonic system. This system covers all aspects of surround sound production: acquisition, synthesis, processing and reproduction of sound content in three dimensions. The comprehensive approach of the Ambisonic system is fully compatible with the most popular technologies, such as Dolby Digital and DTS, and with mainstream distribution media like DVD and HDTV.

TOPICS COVERED ON THE AMBISONIC SYSTEM

- History and theory of the system;
- 2D and 3D sound recording;
- 3D encoding of mono and stereo sources;
- 3D signal processing;
- 3D sound reproduction and diffusion;
- Delivery and distribution media;
- Hybrid surround-sound production strategies;
- Introduction to software development for two-dimensional and three-dimensional sound production;
- Ambisonic creation and production pipelining for delivery and distribution in Dolby Digital and DTS on CD/DVD.

SOFTWARE USED ON MAC OS X

- Ambisonic Studio B2X;
- Apple Compressor;
- Apple DVD Studio Pro;
- Digidesign Pro Tools;
- Plogue Bidule;
- Roxio Toast;
- SonicBirth;
- Steinberg Nuendo;
- Twisted Wave;
- VLC Player;
- Vortex Surround.

Please note that modifications may be made to the workshop scenario which **will be given in French**; however, the instructor is bilingual.

PREREQUISITES

- Intermediate knowledge of digital audio;
- Be a professional artist, creator or cultural worker;
- Be a self-employed worker or a salaried employee in an enterprise not subject to 1 % Training Investment^(*);
- To attend every session of the workshop.

^(*)Any enterprise whose total payroll is \$1,000,000 or more is subject to 1 % Training Investment.

SCHEDULE

The workshop will take place over three weekends:
October 4-5; 11-12; 25-26, 2008, from 10 am to 5 pm.

COST

\$100 per person; payment must be made one week before the start of the workshop.

NUMBER OF PARTICIPANTS

Maximum 12 people

INSTRUCTOR

Daniel Courville is a lecturer in sound production and applied computer technology at UQAM's École des médias since 1990. He is a music producer and since 1988, has been interested in three-dimensional sound recording, processing and reproduction, particularly Ambisonic technology. Recently, he has investigated the integration of Ambisonic technology into sound production and post-production environments through the development of software tools used in linear and non-linear media. Daniel Courville holds a master's degree in communications from UQAM.

TEACHER'S ASSISTANT

Stéphane Claude is an electronic/electroacoustic musician and audio mastering engineer. His research is concerned with providing a conceptual framework for audio recordings and he also makes sound installations. He has produced soundtracks for various image, theatre and multimedia projects by other artists. Since 1992, he has been preoccupied with the presentation of electronic art by favoring the notion of 'active listening'. As an audio consultant, he has participated in the conception, production and integration of high-end surround sound and digital recording and mastering studios in Montreal and abroad.

TO REGISTER

Before Friday, September 26, 2008, at 5 pm

Please submit a short summary of your area of practice with your registration request to:

Annie Tremblay, Lab Services Coordinator

phone: 514 844-3250, ext. 230 fax: 514 847-0330

lab@oboro.net

www.oboro.net

POLICY

Reservation / Payment

Reservations can be done by phone or email. Full payment must be made for inscription to be valid. You can pay by credit card (Visa or MasterCard), cheque or in cash. Registration to a workshop is not transferable.

Refunding

OBORO does not refund inscription fees except in case of illness (with a medical note) or of absolute necessity. In such cases, inscription fees are transferable to another workshop or service offered by the New Media Lab.

Workshop Cancellation

OBORO reserves the right to cancel workshops at any time and without advance notice. In this case, inscription fees are totally refunded.