

The 13th International Conference on Auditory Display

June 26-29, 2007

Program

[Tuesday 8:00] Registration begins in entrance lobby of 527 Sherbrooke

1) Binaural Technology for Auditory Display (Tuesday AM)

[9:00 - 9:10] Chair's introduction to session 1, William Martens

- a) [9:10 - 9:35] 19 - CONTROL OF PERCEIVED ROOM SIZE USING SIMPLE BINAURAL TECHNOLOGY by Densil Cabrera
- b) [9:35 - 10:00] 36 - PERCEIVED NATURALNESS OF SPEECH SOUNDS PRESENTED USING PERSONALIZED VERSUS NON-PERSONALIZED HRTFS by John Usher and William L. Martens
- c) [10:00 - 10:25] 41 - THE INFLUENCE OF PRESENTATION SPEED AND SPATIAL LOCATION ON REACTION TIME TO AUDITORY DISPLAYS by Agnieszka Roginska

[10:25-10:40] BREAK (POSTERS)

- d) [10:40 - 11:05] EFFECT OF LARGE SYSTEM LATENCY OF VIRTUAL AUDITORY DISPLAY ON LISTENER'S HEAD MOVEMENT IN SOUND LOCALIZATION TASK by Yoiti Suzuki, Satoshi Yairi and Yukio Iwaya
- e) [11:05 - 11:30] 59 - A COMPARISON OF HEAD-TRACKED AND VEHICLE TRACKED VIRTUAL AUDIO CUES IN AN AIRCRAFT NAVIGATION TASK by Douglas S. Brungart, Brian D. Simpson, Ronald C. Dallman, Griffin Romigh, Richard Yasky and John Raquet
- f) [11:30 - 11:50] 67 - MITIGATION OF BINAURAL FRONT-BACK CONFUSIONS BY BODY MOTION IN AUDIO AUGMENTED REALITY by Nick Mariette
- g) [11:50 - 12:10] 56 - NEARFIELD SYNTHESIS OF COMPLEX SOURCES WITH HIGH-ORDER AMBISONICS, AND BINAURAL RENDERING by Dylan Menzies

LUNCH (POSTERS)

2) The role of binaural reproduction in music, film, and radio-play productions (Tuesday PM)

[1:30 - 1:35] Chair's introduction to session 2, Jonas Braash

- a) [1:35 - 2:00] SPATIAL AUDIO QUALITY EVALUATION: COMPARING TRANSAURAL, AMBISONICS AND STEREO by Catherine Guastavino, Véronique Larcher, Guillaume Catusseau, and Patrick Bousard
- b) [2:00 – 2:25] BINAURAL RECORDING AND REPRODUCTION by Robert Schulein
- c) [2:25 - 2:50] BINAURAL RECORDING AND REPRODUCTION: EXAMPLES 1932-2007 by Robert Schulein

[2:50 – 3:15] BREAK (POSTERS)

- d) [3:15 – 3:40] “CRANIAL TRANSITIONS FOR SOPRANO SAXOPHONE AND ELECTRONIC PROCESSING” by Jonas Braasch
- e) [3:40 – 4:05] IMPROVISING WITH SPACES by Pauline Oliveros
- f) [4:05 – 4:30] “MOVING SPACES” by Pauline Oliveros
- g) [4:40-4:55] “PULP SONGS” by Zevin Polzin
- h) [4:55-5:20] “[a]wash.in[a]dvnt.sea #2” by Doug van Nort
- i) [5:20-5:45] “8 notes, 16 speakers, x players” by Al Margolis

6:00: Evening Concert 1 (ending approximately at 7:00)

Tintinnabulate Ensemble

[Wednesday 8:00] Registration in lobby (Also authors of Wednesday’s poster presentations are to place their posters in the lobby at this time)

3) Auditory Warnings and Alerts: Best Practices and New Approaches (Wednesday AM)

[9:00 - 9:05] Chair’s introduction to session 3, Durand Begault

- a) [9:05 - 9:30] INTEGRATING AUDITORY WARNINGS WITH TACTILE CUES IN MULTIMODAL DISPLAYS FOR CHALLENGING ENVIRONMENTS by Ellen C. Haas
- b) [9:30 - 9:55] AUDITORY ALARM DESIGN FOR NASA CEV APPLICATIONS by Durand R. Begault, Martine Godfroy, Aniko Sandor, and Kritina Holden
- c) [9:55 - 10:20] DOING SCIENCE ON AUDITORY DISPLAY DESIGN IN THE COCKPIT: MERGING LABORATORY RIGOR AND THE AIRCRAFT COCKPIT ENVIRONMENT by Carol A. Simpson
- d) [10:20 - 10:45] ACOUSTIC AND SEMANTIC WARNING PARAMETERS IMPACT VEHICLE CRASH RATES by Carryl L. Baldwin

[10:45 - 11:00] BREAK (POSTERS)

- e) [11:00 - 11:25] DESIGN OF NATURAL WARNING SOUNDS by Pernilla Ulfvengren
- f) [11:25 - 11:50] SONIFICATION AND RELIABILITY – IMPLICATIONS FOR SIGNAL DESIGN by James P. Bliss and Randall D. Spain
- g) [11:50 - 12:15] 62 - PERCEPTION OF URGENCY AND SPATIALIZATION OF AUDITORY ALARMS by A. Guillaume, M. Rivenez, G. Andéol and L. Pellieux

LUNCH (POSTERS)

4) Analysis and Synthesis of Environmental Sounds (Wednesday PM)

[1:30 - 1:35] Chair's introduction to session 4, Gary Scavone

- a) [1:35 - 2:00] "DIN OF AN 'IQUITY' ": ANALYSIS AND SYNTHESIS OF ENVIRONMENTAL SOUNDS by Perry Cook
- b) [2:00 - 2:25] ACOUSTICAL AND CONCEPTUAL INFORMATION FOR THE PERCEPTION OF ANIMATE AND INANIMATE SOUND SOURCES by Bruno Giordano, John McDonnell, and Stephen McAdams
- c) [2:25 - 2:50] SYNTHESIS OF ENVIRONMENTAL SOUNDS IN INTERACTIVE MULTIMODAL SYSTEMS by Federico Avanzini
- d) [2:50 - 3:15] 71 - HIGH-RESOLUTION ANALYSIS AND RESYNTHESIS OF ENVIRONMENTAL IMPACT SOUNDS by L.-M. Reissell and Dinesh K. Pail

[3:15 -3:30] BREAK (POSTERS)

- e) [3:30 - 3:50] 66 - PHYSICAL AUDIO FOR VIRTUAL ENVIRONMENTS, PHVA IN REVIEW by Dylan Menzies
- f) [3:50 - 4:10] 40 - AUDIO-HAPTIC PHYSICALLY BASED SIMULATION AND PERCEPTION OF CONTACT TEXTURE by Stefania Serafin, Hans P. Kjaer, Christian Taylor and Federico Avanzini
- g) [4:10 - 4:30] 37 - CONCEPTS OF PERCEPTUAL SIGNIFICANCE FOR COMPOSITION AND REPRODUCTION OF EXPLORABLE SURROUND SOUND FIELDS by Peter Lennox and Tony Myatt

KEYNOTE: [4:30 – 5:20] TIMBRE, AUDITORY DISPLAY, AND ORGANIZED SOUND by Stephen McAdams

[5:20 – 6:00] "Multichannel Musical Sound Spatialization" Panel Discussion

6:00: Evening Concert 2 (ending approximately at 7:00)

[Thursday 8:00] Registration in lobby (Also authors of Thursday's poster presentations are to place their posters in the lobby at this time)

5) Effective Auditory Displays, Listening Abilities, and Learning (Thursday AM)

[9:00 - 9:05] Chair's introduction to session 5, René Quesnel

- a) [9:05 - 9:25] 60 - LISTENER, TASK, AND AUDITORY GRAPH: TOWARD A CONCEPTUAL MODEL OF AUDITORY GRAPH COMPREHENSION by Michael A. Nees & Bruce N. Walker
- a) [9:25 - 9:45] 57 - LEARNING RATES FOR AUDITORY MENUS ENHANCED WITH SPEARCONS VERSUS EARCONS by Dianne K. Palladino and Bruce N. Walker
- c) [9:45 - 10:05] 69 - LOCALIZATION IN MULTIPLE SOURCE ENVIRONMENTS: LOCALIZING THE MISSING SOURCE by Brian D. Simpson, Douglas S. Brungart, Robert H. Gilkey, Nandini Iyer and James T. Hamil
- d) [10:05 - 10:25] 26 - EVALUATION OF SPATIAL PRESENTATION IN SONIFICATION FOR IDENTIFYING CONCURRENT AUDIO STREAMS by Hong Jun Song, Kirsty Beilharz and Densil Cabrera

[10:25 - 10:40] BREAK (POSTERS)

- e) [10:40 - 11:00] 48 - PERCEIVING THE RELATIONSHIP BETWEEN DISCRETE AND CONTINUOUS DATA: A COMPARISON OF SONIFIED DATA DISPLAY FORMATS by Carina M. McCormick and John H. Flowers
- f) [11:00 - 11:20] 85 - GRAPH OVERVIEWS: DISCRETE VS. CONTINUOUS SONIFICATION by Lila Harrar and Tony Stockman
- g) [11:20 - 11:40] 78 - DETECTION AND DISCRIMINATION OF APPROACHING AND RECEDING PURETONES by Mark A. Ericson

ANNOUNCEMENTS

Launch of the new ICAD webpage, Christopher Frauenberger [11:40 - 11:50]

Invitation to ICAD 2008 at IRCAM, Brian Katz [11:50 - 12:00]

LUNCH (POSTERS)

6) Design and Evaluation (Thursday PM)

[1:30 - 1:35] Chair's introduction to session 6, John Neuhoff

- a) [1:35 - 1:55] 15 - AN EXPERIMENTAL EVALUATION OF THE INFLUENCE OF AUDITORY CUES ON PERCEIVED VISUAL ORDERS IN DEPTH by Delphine Devallez, Davide Rocchesso and Federico Fontana
- b) [1:55 - 2:15] 34 - SEMANTICS OF SOUNDS AND IMAGES - CAN THEY BE PARALLELED? by Antti Pirhonen
- c) [2:15 - 2:35] 33 - INVESTIGATING AMBIENT AUDITORY INFORMATION SYSTEMS by Eoin Brazil and Mikael Fernström
- d) [2:35 - 2:55] 79 - SOUND EMBODIED: A REPORT ON SONIC INTERACTION DESIGN IN EVERYDAY ARTIFACTS by Karmen Franinović, Daniel Hug and Yon Visell

[2:55 - 3:10] BREAK (POSTERS)

- e) [3:10 - 3:30] 31 - TOWARD A DATA SONIFICATION DESIGN SPACE MAP by Alberto de Campo
- f) [3:30 - 3:50] 43 - DEVELOPING SOUNDS FOR A MULTIMODAL INTERFACE: CONVEYING SPATIAL INFORMATION TO VISUALLY IMPAIRED WEB USERS by Emma Murphy, Ravi Kuber, Philip Strain, Graham McAllister and Wai Yu
- g) [3:50 - 4:10] 51 - 'PSYSOUND3': SOFTWARE FOR ACOUSTICAL AND PSYCHOACOUSTICAL ANALYSIS OF SOUND RECORDINGS by Densil Cabrera, Sam Ferguson and Emery Schubert
- h) [4:10 - 4:30] 47 - ESTABLISHING KEY DIMENSIONS FOR REIFYING SOUND FIELDS AND SOUNDSCAPES FROM AUDITORY PROFESSIONALS by Iain McGregor, Alison Crerar, David Benyon and Grégory Lepître

Banquet in "Les Verrieres" at Holiday Inn Midtown La Plaza

5:00 Cocktails

6:00 Musical Performance by Uccello

Followed immediately by Dinner

Optionally followed by JazzFest Event (Free Choice)

[Friday 8:00] Registration in lobby (Also authors of Friday's poster presentations are to place their posters in the lobby at this time)

7) Sonification I (Friday AM)

[9:00 - 9:05] Chair's introduction to session 7, Bruce Walker

- a) [9:05 - 9:25] 75 - MODELING AND CONTINUOUS SONIFICATION OF AFFORDANCES FOR GESTURE-BASED INTERFACES by Yon Visell and Jeremy Cooperstock

- b) [9:25 - 9:45] 24 - EXPRESSIVE MUSICAL WARNING SIGNALS by Johan Fagerlönn
- c) [9:45 - 10:05] 23 - AUDIO REMINDERS IN THE HOME ENVIRONMENT by Marilyn Rose McGee-Lennon, Maria Wolters and Tony McBryan
- d) [10:05 - 10:25] 81 - THE DESIGN OF A HETEROGENEOUS SOFTWARE ENVIRONMENT FOR DATA SONIFICATION RESEARCH AND AUDITORY DISPLAY: SONIPY by David Worrall, Michael Bylstra, Stephen Barrass and Roger Dean (to be presented by Somaya Langley)

BREAK (POSTERS) [10:25-10:40]

- e) [10:40 - 11:00] 12 - SYSTEMATIC USABILITY INSPECTION APPROACH FOR SONIFICATION APPLICATIONS by Ag. Asri Ag. Ibrahim and Andy Hunt
- f) [11:00 - 11:20] 38 - RELEVANCE-BASED INTERACTIVE OPTIMIZATION OF SONIFICATION by Thomas Hermann, Kerstin Bunte and Helge Ritter
- g) [11:20 - 11:40] 39 - ORGANIZED DATA FOR ORGANIZED SOUND SPACEFILLING CURVES IN SONIFICATION by Florian Grond

[11:40 – 12:10] Interactive Binaural Panel Discussion

LUNCH (POSTERS)

8) Sonification II (Friday PM)

[1:30 - 1:35] Chair's introduction to session 8, Densil Cabrera

- a) [1:35 - 1:55] 7 - SONIFICATION OF SOUND: TOOLS FOR TEACHING ACOUSTICS AND AUDIO by Densil Cabrera and Sam Ferguson
- b) [1:55 - 2:15] 18 - MULTI-CHANNEL SONIFICATION OF HUMAN EEG by Gerold Baier, Thomas Hermann and Ulrich Stephani
- c) [2:15 - 2:35] 50 - REAL-TIME SONIFICATION OF MOVEMENT FOR AN IMMERSIVE STROKE REHABILITATION ENVIRONMENT by Isaac Wallis, Todd Ingalls, Thanassis Rikakis, Loren Olsen, Yinpeng Chen, Weiwei Xu and Hari Sundaram

9) [2:35 - 3:15] Open Microphone Session

10) [3:15 - 3:20] Conference Closing

Disclaimer: This is the official conference schedule, though the times of presentations must be regarded as approximate. The organizers reserve the right to alter the program without prior notice.

Last Modified: June 25, 2007