



Downtown Ann Arbor Conference Venues



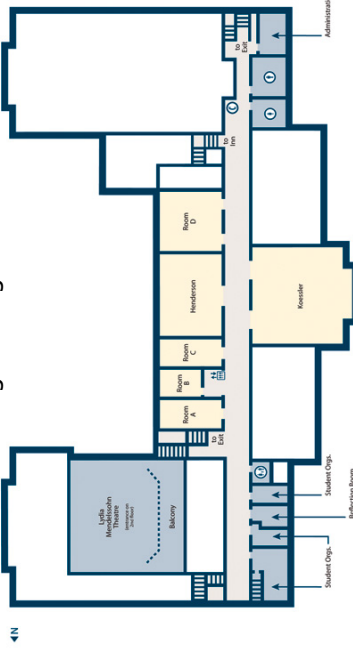
- Michigan League**
Paper sessions, posters, demos (Mon-Wed).
- Necto Nightclub**
NIME Live Night Concerts (Tue, Wed 9pm).
- University of Michigan Museum of Art**
Sunday Opening Reception (5:30pm) and Fluxus exhibit (Sunday 12-5, with public tour at 2pm).
- Parking Lot C2**
Motor Vehicle Sundown performances (Sun 5pm).
- Lydia Mendelssohn Theatre**
NIME evening concerts (Mon 9pm, Tue 7pm, Wed 7pm).
- Space 2435**
Waking Minds (Mon 11pm-Tue 7am).

12th International Conference New Interfaces for Musical Expression

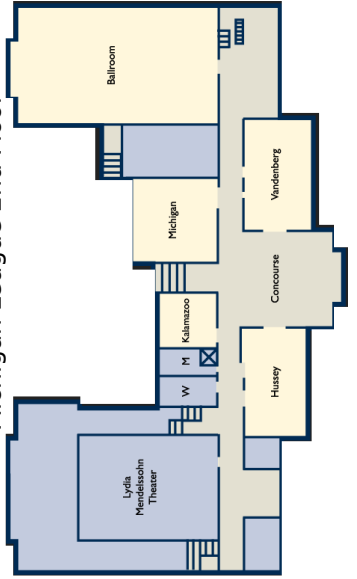


May 21 - 23, 2012
Ann Arbor, Michigan

Michigan League 3rd Floor



Michigan League 2nd Floor



	Non 5/21	Tue 5/22	Wed 5/23
8:30- Registration (League 2nd floor lobby)	8:30- Registration (League 2nd floor lobby)	8:30- Registration (League 2nd floor lobby)	8:30- Registration (League 2nd floor lobby)
9-12p Morning Workshops (BBB North Campus)	9-10:30- Opening Remarks & Keynote 1 (League Ballroom)	9-10:30 Paper Session 4 (League Ballroom)	9-10:30 Paper Session 7 (League Ballroom)
10-4p Afternoon Workshops (BBB North Campus)	10:30- Coffee Break	10:30- Coffee Break	10:30- Coffee Break
	11-12:30p Paper Session 1 (League Ballroom)	11-12:30p Keynote 2 (League Ballroom)	11-12:15p Keynote 3 (League Ballroom)
	12:30p-1:30p Lunch Break	12:30p-1:30p Lunch Break	12:15p-1:30p Lunch Break
	1:30p-2:30p Poster/Demos 1 (League Ballroom)	1:30p-2:30p Poster/Demos 2 (League Ballroom)	1:30p-2:30p Poster/Demos 3 (League Ballroom)
	2:30p-3:30p Paper Session 2 (League Ballroom)	2:30p-3:30p Paper Session 6 (League Ballroom)	2:30p-3:30p Paper Session 8 (League Ballroom)
	3:30p- Coffee Break	3:30p- Coffee Break	3:30p- Coffee Break
	4p-5p Paper Session 3 (League Ballroom)	4p-5p Installation Time (Duderstadt North Campus)	4p-5p Paper Session 9 (League Ballroom)
5p- Motor Vehicle Sundown Performance (Digi)	5p- Buses to Banquet (League Ballroom)	5p- Buses to Banquet (League Ballroom)	5p- NIME Plenary Session (League Ballroom)
5:30p-7:30p Opening Reception (UMMA)	Banquet (Cobblestone Barn)	5:30p-7p Dinner Break	5:30p-7p Dinner Break
	7p-8:30p Evening Concert (Mendelssohn)	7p-8:30p Evening Concert (Mendelssohn)	7p-8:30p Evening Concert (Mendelssohn)
	9p-10:30p Evening Concert (Mendelssohn)	9p-12 Late Night Concert (recto)	9p-12 Late Night Concert (recto)

University of Michigan School of
Music, Theatre & Dance

UNIVERSITY OF MICHIGAN • COLLEGE OF ENGINEERING

COMPUTER SCIENCE AND ENGINEERING

UNIVERSITY OF MICHIGAN MUSEUM OF ART

NECTO

Cycling 74 • tools for media

Monday May 21st, 2012

9:15 Keynote 1: David Wessel

Composing Instruments that we can Touch

11:00 Paper Session I – Actuation and Visualization

Pencil Fields: An Expressive Low-Tech Performance Interface for Analog Synthesis (*Palle Dahlstedt*)

Left and right-hand guitar playing techniques detection (*Late Rebourstev, Orso Lihletoja, Thomas Dringman, Stéphane Dupont, Cécile Picard-Limpens, Nicolas Riche*)

Temporal Control In the EyeHarp Gaze-Controlled Musical Interface (*Zacharias Varnavakakis, Rafael Ramirez*)

Investigation of Gesture Controlled Articulatory Vocal Synthesizer using a Bio-Mechanical Mapping Layer (*Johny Wang, Nicolas d'Alessandro, Sidney Fels, Robert Pritchard*)

1:30 Poster Session I

1:30 Posters & Demos

2:30 Paper Session II – Augmented Instruments I

Further Developments in the Electromagnetically Sustained Rhodes Piano (*Greg Shear, Matthew Wright*)

A Qualitative Evaluation of Augmented Human-Human Interaction in Mobile Group Improvisation (*Roberto Pugliese, Kory Tahiröglu, Callan Goddard, James Neefke*)

The EWVibe: An Electromagnetically Actuated Vibraphone (*N. Cameron Britt, Jeff Snyder, Andrew McPherson*)

4:00 Paper Session III – Gesture

Musical Interaction with Hand Posture and Orientation: A Toolbox of Gestural Control Mechanisms (*Thomas Mitchell, Sebastian Madgwick, Imogen Heap*)

Digitio: A Fine-Grain Gesturally Controlled Virtual Musical Instrument (*Nicholas Gillian, Joseph A. Paradiso*)

VOICON: An Interactive Gestural Microphone For Vocal Performance (*Yongki Park, Hoon Heo, Kyogu Lee*)

5:30 Banquet (Cobblestone Farm)

9:00 Evening Concert (Lydia Mendelssohn Theatre)

Floating Points II (*Mathias Schneiderbauer, Michael Werling*)

Water Birds (*Maria Helmuth, Rebecca Danard*)

4 Hands iPhone (*Aar Tanaka, Adam Parkinson*)

Aphasia (*Mark Applebaum*)

Violent Dreams (*Hans Leeuw, Diemo Schwarz*)

the ellipsis catalog (*Kevin Patton, Butch Rovam*)

Clarinet (Albino Butterfly) (*Martin Marie*)

11:00 Overnight Concert (North Quad Space 2435)

Music for Sleeping & Waking Minds (*Gascia Outzounian, R. Benjamin Knapp, Luke Lyon, R. Luke DuBois*)

Tuesday May 22nd 2012

9:00 Paper Session IV (Tabletop/Multitouch/Laptop)

Towards fast multi-point force and hit detection in tabletops using mechanically Interlocked Force Sensing Resistors (*Mathieu Bost, Sergi Jordà*)

TouchKeys: Capacitive Multi-Touch Sensing on a Physical Keyboard (*Andrew McPherson*)

Wicked Problems and Design Considerations in Composing for Laptop Orchestra (*Luke Dahl*)

Collaborative Composition and Socially Constructed Instruments: Ensemble Laptop Performance Through the Lens of Ethnography (*Graham Booth, Michael Garovich*)

11:00 Paper Session V (Machine Learning)

Unsupervised Play: Machine Learning Toolkit for Max (*Benjamin D. Smith, Guy E. Garnett*)

Exploring Reinforcement Learning for Mobile Percussive Collaboration (*Nate Derbinsky, Georg Essl*)

Liveless and Flow in Notation Use (*Chris Nash, Alan Blackwell*)

Movement to Emotions to Music: Using Whole Body Emotional Expression as an Interaction for Electronic Music Generation (*Alexis Clay, Nadine Couture, Elodie Decarain, Myriam Devaine-Catherine, Pierre-Henri Villard, Joseph Larriale*)

1:30 Posters Session II

2:30 Paper Session VI (Mobile)

Comparing Motion Data from an iPod Touch to an Optical Infrared Marker-Based Motion Capture System (*Kristian Nymmen, Ane Voldsrud, Ståle A. Skogstad, Alexander Refsum Jensenius, Jim Torresen*)

massMobile - an Audience Participation Framework (*Nathan Weitzner, Jason Freeman, Stephen Garrett, Yan-Ling Chen*)

Aurati: A Mobile Interactive System for Geo-Location Audio Synthesis (*Jesse Allison, Christian Dell*)

4:00 Installation Time

7:00 Evening Concert (Lydia Mendelssohn Theatre)

Of Dust and Sand (*Per Bioland*)

Jack Walk (*Scott Deal*)

Desamor I (*Roberto Morales-Manzanares*)

Flute (*Bill Hsu*)

Vocalise / Beach Boys Medley (*Jonathan Golove, Magnus Marrensson*)

9:00 Late Night Concert (Necto)

Pencil Fields (*Palle Dahlstedt*)

Munich, Munich (*Daniel Brophy, John Labadie*)

Thunderclap For Six Kinetic Eight-Drums (*Jenn Figg, Matthew McCormack, Paul Cox*)

InHands: Improvisation for Mobile Phones (*Kory Tahiröglu*)

Modified Attack (*Levy Lorenzo*)

Music for Flesh II: interactive music for enhanced body (*Marco Domatrumma*)

Wednesday May 23rd 2012

9:00 Paper Session VII (Augmented Instruments II)

Extracting Human Expression for Interactive Composition with the Augmented Violin (*Mari Kimura, Nicolas Rasamimanana, Frédéric Berliacqun*)

A Quantitative Comparison of Position Trackers for the Development of a Touch-less Musical Interface (*Gabriel Vigiensoni, Marcelo M. Wanderley*)

SABBE: The Augmented Bass Clarinet (*Sébastien Schiesser, Jan C. Schacher*)

Direct and surrogate sensing for the Gyil african xylophone (*Shawn Trail, Tiago Fernandes Tavares, Dan Godlovitch, George Zemanick*)

11:00 Keynote 2: David Huron

Sound in Action

1:30 Poster Session III

2:30 Paper Session VIII (Hardware platforms & toolkits)

Musical Interaction Design with the CUI325tem: Wireless Options and the GROVE system for prototyping new interfaces (*Dan Overholt*)

The JD-1: an Implementation of a Hybrid Keyboard/Sequencer Controller for Analog Synthesizers (*Jeff Snyder, Andrew McPherson*)

To be inside someone else's dream: On Music for Sleeping & Waking Minds (*Gascia Outzounian, R. Benjamin Knapp, Eric Lyon, R. Luke DuBois*)

4:00 Paper Session IX (Augmented Instruments III)

Techniques and Circuits for Electromagnetic Instrument Actuation (*Andrew McPherson*)

OMaxist Dialectics: Capturing, Visualizing and Expanding Improvisations (*Benjamin Levy, Georges Bloch, Gerard Assayag*)

An Electronic Bagpipe: Chantier for Automatic Recognition of Highland Piping Ornamentation (*Duncan W. H. Menzies, Andrew McPherson*)

7:00 Evening Concert (Lydia Mendelssohn Theatre)

Motion-Influenced Composition (*Eli Stine*)

Fragments (*Thomas Cluff*)

Måne Havn (mounhoun): An Exploration of Gestural Language for Pitched Percussion (*Shawn Trail, Thor Kell, Gabrielle Olowitchuk*)

Mimi: Multi-modal Interaction for Musical Improvisation (*Isaac Schankler, Alexandre François, Elaine Chew*)

Ambiguous Devices (*Paul Stapleton, Tom Davis*)

9:00 Late Night Concert (Necto)

The Therenim Orchestra (*Mercedes Blasco*)

Stelaextraction (*Alexander Dupuis*)

Fieldwork (*Christopher Burns*)

Swarm fragments—A Performance for Swarming Robotics (*Yuta Udagami, Keisuke Ogata, Jun Tomitaka, Hitomi Okamoto, Takayuki Kimoto*)

Sandbox#3.6 (*Pierre Alexandre Tremblay*)

DaisyLab: a Phonetic Deconstruction of Humankind (*Nicolas d'Alessandro, Diemo Schwarz*)