

1977 COMPUTER MUSIC CONFERENCE  
Center for Music Experiment and Related Research  
University of California at San Diego  
La Jolla, California 92093

TENTATIVE SCHEDULE - PAPERS

WEDNESDAY, OCTOBER 26

--- 408 Matthews Campus - CME ---

10 AM - 4 PM Registration

1 - 4:30 SPECIAL INTEREST GROUPS:

1 - 2:30 PDP-11 Users

2:30 - 3:30 Microprocessors - Hybrid Systems

3:30 - 4:30 Digital Hardware (Main Room)  
Music Education Applications (Conference Room)

4:30 WORKSHOP: HOW CAN COMPOSERS AND ENGINEERS INVOLVE EACH OTHER IN THE DESIGN OF COMPUTER MUSIC SYSTEMS?

(Interested composers and engineers are invited to attend this informal session. Composers not currently involved in technology are particularly encouraged to attend).

THURSDAY, OCTOBER 27

--- 408 Matthews Campus - CME ---

8:30 - 11:30 AM SYNTHESIS HARDWARE - Chairman: Peter Samson

20 ~~15~~ J. Walsh - "Design Considerations for Computer Music Systems"

20 ~~15~~ A. Parker - "The Carnegie Mellon Computer Music System  
R. Blum Digital Hardware"  
P. E. Dworak

20 ~~15~~ G. D. Giugno - "A One Card 64 Channel Digital Synthesizer"  
H. G. Alles

30 ~~20~~ H. G. Alles - "A Portable Digital Sound Synthesis System"

15 ~~15~~ - "A Modular Approach to Building Large Digital Synthesis Systems"

30 ~~15~~ P. Samson - "The Systems Concepts Digital Synthesizer:  
Technical Development and Functional Characteristics"

--- Recital Hall - Mandeville Center ---

8:30 - 10:30 AM TUTORIAL

J. A. Moorer - "Computer Music Fundamentals"

10:45 - 11:45 USER PSYCHOLOGY

O. Laske - "Understanding the Behavior of the Users of Interactive Computer Music Systems"

--- Auditorium - Mandeville Center ---

12:00 - 1:00 WELCOMING ADDRESS - Pauline Oliveros

PERFORMANCE

David Behrman - "Solo for Bass and Melody Driven Electronics"

TENTATIVE SCHEDULE (cont.)

THURSDAY, OCTOBER 27 (cont.)

--- Auditorium - Mandeville Center ---

2:30 PM

STUDIO REPORTS I - Chairman: Will Ogdon

J. Dashow - "Compositional Techniques for Effecti  
Collateral I"

J. Chadabe - S. U. N. Y. Albany

Marc Battier - Groupe Art et Informatique de Vincennes  
Guisseppe Englert

B. Vercoe - Massachusetts Institute of Technology

8:00 PM

STUDIO REPORTS II - Chairman: Pauline Oliveros

Stanford Center for Research in Music and Acoustics

John Grey - "Psychoacoustic Research"

John Gordon

John Chowning - "Non Linear Synthesis"

Marc Le Brun - "Sine Summation Synthesis"

J. A. Moorer - "The Stanford Computer Music System: An  
Overview"

Loren Rush - "Digital Recording Techniques"

Other papers by Bill Schottstaedt and Mike McNabb

Studio reports are special sessions intended to provide information about specific facilities. Discussion will be directed towards composer interaction with the systems available. Most studio reports will include performances of representative pieces produced at each facility.

FRIDAY, OCTOBER 28

--- Auditorium - Mandeville Center ---

8:30 - 9:45 AM

SOFTWARE FOR SOUND SYNTHESIS - Chairman: Bruce Leibig

Curtis Abbott - "INV: A Language for Music Processing and  
Generation"

D. Bayer - "Real Time Software for a Digital Synthesizer"

M. Mathews - "Computer Program for Digital Synthesis"

10:15 - 12:30

SYNTHESIS TECHNIQUES

T. Peterson - "Composer as Surgeon: Performing Phase  
Transplants"

E. Ferretti - "Nuance in the Synthesis of Live Sounds"

J. Justice - "A Technique for Time Variant Filter Design"

R. Cann - "Towards Improved Analysis/Synthesis Using  
K. Stieglitz Cepstral and Pole Zero Techniques"

D. Arfib - "Digital Synthesis of Complex Spectra by Means  
of Non-linear Distortion of Sine Waves and

TENTATIVE SCHEDULE (cont.)FRIDAY, OCTOBER 28 (cont.)

---- Recital Hall - Mandeville Center ----

10:00 AM

## DISCUSSION

J.-C. Francois - "Plot" (Performance on Saturday evening)  
Herbert Br  n

---- Auditorium - Mandeville Center ----

2:00 PM

STUDIO REPORTS III - Chairman: Robert Gross

D. Byrd - Indiana University

P. Lansky - Princeton University

J. C. Risset - IRCAM

J. Appleton - Dartmouth University

D. Rosenboom - Berkeley, California

D. Buchla

---- Recital Hall - Mandeville Center ----

12:00 - 3:00 PM

## VIDEO AND AUDIO TAPE SESSION

G. Schwede - "A Fuzzy Hierarchical System Model for Real  
Time Visual Interpretation in Music Experiences"

---- 408 Matthews Campus - CME ----

8:00 PM

## CME CONCERT

D. Kavach - "Requiem" excerpt  
Extended Vocal Techniques EnsembleR. Erickson - "Loops"  
Ron George, Percussion

## Intermission

KIVA Ensemble - John Silber  
Jean-Charles FrancoisSATURDAY, OCTOBER 29

---- Auditorium - Mandeville Center ----

8:30 - 10:30 AM

## COMPOSITIONAL ALGORITHMS

C. Roads - "Composing Grammars"

E. Ghent - "Further Studies in Interactive Computer  
Music Composition"J. N. Siddall - "New Developments in Stochastic Computer  
Music"10:45 - 12:30 REAL TIME INTERACTION WITH COMPUTER MUSIC SYSTEMS -  
Chairman: Gordon MummaA. Parker - "Envelope Control with an Optical Keyboard"  
P. Dworak

TENTATIVE SCHEDULE (cont.)

SATURDAY, OCTOBER 29 (cont.)

---- Auditorium - Mandeville Center ----

2:00 PM

STUDIO REPORTS IV - Chairman: Bernard Rands

Hans Knall - EMS Studios, Sweden

P. Grossi - CNUCE, Padova, Italy

J. Beauchamp - University of Illinois

J. Melby

H. Brun

R. Gross - Center for Music Experiment, UCSD

J-C. Francois

E. Harkins

---- Recital Hall - Mandeville Center ----

5:00 PM

VIDEO

W. Fetter - "Three Computer Graphics Research Activities  
Applicable to the Arts"

This event takes place during the Exhibition session from  
4:00 - 7:00 PM.

---- Auditorium - Mandeville Center ----

8:00 PM

CONCERT: PERFORMERS WITH TAPE

Wesley Fuller - "Time Into Pieces"

John Appleton - "In Deserto"

J. C. Risset - "Inharmonique"

Neva Pilgrim, Soprano

Intermission

Loren Rush - "Traveling Music"

Dwight Peizer, Piano

Herbert Brñn - "Plot"

J-C. Francois, Percussion

James Dashow - "Effetti Collaterali"

Philip Rehfeldt, Clarinet

SUNDAY, OCTOBER 30

---- Auditorium - Mandeville Center ----

9:00 AM

PSYCHOACOUSTICS AND PERCEPTION - Chairman: Gerald Balzano

James Tenney - "A Metric Space Model of Temporal Gestalt  
Perception"

David Wessel - "Psychoacoustic Aids for the Composer's  
Gerald Bennett Exploration of New Material  
Bennett Smith

TENTATIVE SCHEDULE (cont.)

SUNDAY, OCTOBER 30 (cont.)

--- Auditorium - Mandeville Center ---

PANEL: PROBLEMS IN THE USE AND DESIGN OF COMPUTER MUSIC  
SYSTEMS

11:00 AM

John Chowning - Stanford University, CRMA

J. C. Risset - IRCAM, Paris

Hans Knall - EMS, Sweden

Barry Truax - Simon Fraser University

Joel Chadabe - S. U. N. Y. Albany