

MEETING NOTICE!

AUDIO ENGINEERING SOCIETY, INC.

SAN FRANCISCO SECTION

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ADDRESS CORRECTION REQUESTED



AUDIO ENGINEERING SOCIETY, INC.
SAN FRANCISCO SECTION

JANUARY 1995

VOL. 5

CNMAT on Synthesis

More than 80 people attended the December 6th meeting at Silicon Graphics to hear the presentation by CNMAT. CNMAT, better known as The Center for New Music and Audio Technology at UC Berkeley is one of the leading music technology research centers in the country. The Center for New Music and Audio



SGI and CNMAT staff at the November AES Meeting

Technologies was established at the University of California, Berkeley in 1987 to provide, promote, and present creative interaction between music and technology.

The presentation discussed new developments in music and audio processing based on the Silicon Graphics workstation. The CNMAT staff made some very impressive demonstrations of advanced synthesis and "re-synthesis" techniques utilizing a SGI workstation. For those of you who were not able to attend the meeting, see the writeup on the AES Web page.

CES Open In Las Vegas

If you've got a problem, there's a electronic product that can fix it. The same electronics that power computers, cellular phones and digital recording devices are invading all aspects of daily life, or so it would seem from the proliferation of chip-powered gadgets on display at the Consumer Electronics Show in Las Vegas, which closed a four-day run

Monday. Besides the standard display of some of the finest home audio equipment in the world, CES is home to hundreds of new (and sometimes useless) electronic gadgets, here is just a small sample. Husband doesn't

remember to put down the toilet seat when he's done? The His 'N Hers motion-activated night light attaches to the upright toilet lid, and turns red if the seat is up, green if it's down, ending any middle-of-the-night confusion. For sick babies comes the WeeCare thermometer, a FDA-approved pacifier with a digital thermometer sealed inside. The thermometer takes a baby's temperature in five minutes, and automatically shuts off in 10 minutes if a parent or babysitter forgets to take it out. Want a guard dog? you can buy an electronic pooch for \$15. It's really a gizmo that hangs inside the front door knob. If anyone tries to open the door, the device emits the sound of a vicious, barking dog.



JANUARY MEETING



Subject: "MPACT" media engine

Speakers: David Miller, Avery Wang and Phil Wiser, Chromatic Research

Place: Holiday Inn, 1221 Chess Drive, Foster City

Time and Date: January 23th, 7:30pm (refreshments at 7pm)

The MPACT media engine is a multimedia subsystem designed for PCI architecture machines. This VLIW processor is capable of 2 GIPS peak performance. It can perform audio, 2-D graphics, 3-D graphics, fax/modem, video conferencing, MPEG I and II decode, video conversion and playback, and much more. The system software is based on a real time kernel that dynamically switches between multimedia tasks. This talk will focus on the and overview of the MPACT architecture, the audio subsystem of MPACT, how the processor integrates with the Windows environment, the system strategy and the MPACT approach and applications of the MPACT processor. The future of applications, pro and semi-pro audio development in the Windows environment will be discussed.

David Miller has been working in the field of PC multimedia for the past 14 years. He has been involved in projects ranging from the development of Radiosity lighting computations, development of accelerated AutoCAD, and Windows Display drivers, design of PC audio cards to support multimedia Windows, and 3D API's for OpenGL support in Windows NT. He is currently the Director of DOS/Windows software at Chromatic Research.

Avery Wang received his BS/Math, MS/Math, and MS/EE from Stanford in 1988. He was in Germany between 1990-1992 on a Fulbright Scholarship studying dynamical neural nets and perception under Christoph von der Malsburg. He returned to Stanford to study under Julius Smith at CCRMA between 1992-1994, where he wrote his PhD thesis entitled "Instantaneous and Frequency-Warped Signal Processing Techniques for Auditory Source Separation". He has been working at Chromatic Research since June 1994 as a signal processing engineer.

Philip Wiser has working at various Bay Area audio companies over the last few years. He received his MSEE from Stanford in 1992. Before entering the audio industry, he co-authored several papers on auditory neurophysiology. He began his audio DSP career at Euphonix, Inc. At Euphonix, he designed audio DSP systems for dynamics and audio matrixing. He then moved into a digital signal path at Studer Editech. At Studer, he designed the dynamics for the Dyaxis II workstation. He is currently an audio DSP engineer at Chromatic Research. His most recent publication was "Stochastic Stepping" at the 1995 AES convention. Phil was recently elected to the AES SF committee.

Look to <http://www.mpact.com> for more technical details.

Directions:

From the East Bay - Take 92/San Mateo Bridge west. Take the first exit at the end of the bridge and turn left off the ramp onto Chess Drive. The Holiday Inn is on the left side of the street.

From the Peninsula - Take 101 to 92 east. Go approximately 1 mile to Foster City Blvd. exit, turn left at the exit ramp and left onto Foster City Blvd. Go over the highway and turn left onto Chess Drive. The Holiday Inn is on the left side of the street.

COMING EVENTS

January 5 - 8
Consumer Electronics Show
Las Vegas, NV

January 18 - 21
NAMM
Anaheim, CA

February
SMPTE Conference
Seattle, WA

JOB BOARD

The following positions are available, see the AES WEB page or call for more details.

Software and DSP Engineers
E-mu, Scotts Valley, CA

Software and Hardware Engineers
Sonic Solutions, Novato, CA

DSP Programmer
Speech Compression, Santa Barbara, CA

Asst. Prof. of Music Engineering Technology
Univ of Miami, Miami, FL

Faculty, CCRMA at Stanford University
Palo Alto, CA

DSP & Windows Applications Programmers
InVision Interactive, Palo Alto, CA

SW/HW/DSP Engineers
DigiDesign, Palo Alto, CA

DSP Engineer
Euphonics, Boulder, CO

Audio Strategic Marketing Engineer
National Semiconductor, Santa Clara, CA

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