SAN DIEGO: CENTER FOR MUSIC EXPERIMENT

LA JOLLA, CALIFORNIA

December 21, 1977

T0: John Stewart

Provost

Muir College

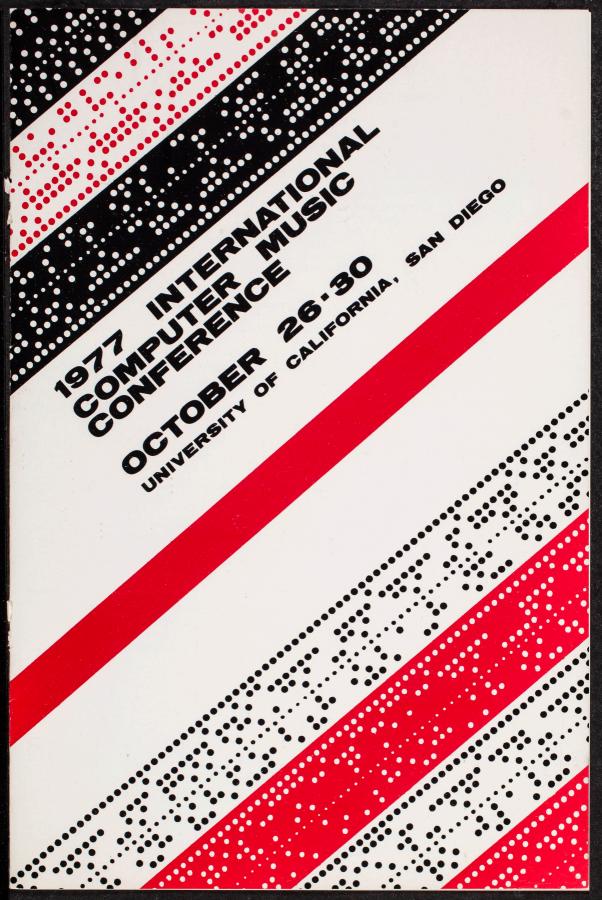
RE: Reviews - CME Computer Conference

I have enclosed a program and several reviews from the 1977 International Computer Music Conference that I thought would be of interest to you. It was an exhausting, but extremely rewarding experience for all of us at the Center. It provided an opportunity for many distinguished visitors from the US and abroad to visit the University and to promote exchange and goodwill.

Pauline Oliveros

Pauline Ohvers

Director



1977 INTERNATIONAL COMPUTER MUSIC CONFERENCE

October 26-30, 1977

Conference Committee: Robert Gross

Jean-Charles Francois
Bruce Rittenbach
Bruce Leibig
Wilbur Ogdon
Pauline Oliveros
Bernard Rands

Previous Conferences:

1974	Music Computation Conference	Michigan State University David Wessel, Chairman
1975	Music Computation Conference II	University of Illinois James Beauchamp John Melby Herbert Brün, Chairmen
1976	First International Conference on Computer Music	Massachusetts Institute of Technology Barry Vercoe, Chairman

Events will be held at the Center for Music Experiment 408 Warren Campus (CME), Mandeville Center Auditorium and Recital Hall, and Room 2722 in the Undergraduate Science Building (USB). The PCS 500 Music CRT will be on display Saturday from 10:00 a.m. to 4:00 p.m. in Room 125 Mandeville Center.

All papers submitted to the conference will be available at the Reserve Section of the Circulation Desk in the Central University Library at the following times: Wednesday, Thursday, 8 a.m. - 10 p.m.; Friday, 8 a.m. - 6 p.m.; Saturday, 9 a.m. - 5 p.m.; Sunday, 2 - 10 p.m.



Oct. 26-30, the UCSD Center for Music Experiement will host the 1977 Computer Music Conference-a weeklong event featuring a wide range of performances as well as lectures by some of the most eminent researchers in the field.

One of the foremost talks will be a Studio Report, Thursday, Oct. 27, at 2:30 p.m. by Barry Lloyd Vercoe, assistant professor and director for experimental music at the Massachusetts Institute of Technology.

Also Thursday noon in Mandeville Auditorium, UCSD faculty member Bert Turetzky of Del Mar will perform David Behrman's "Sola for Bass and Melody Driven Eleccronics."

research in Toronto resulting in new methods of relating brain activity to investigation of aesthetics.

As director of the program, Pauine Oliveros said, "the meeting under one roof of such noted authorities will insure a meaningful give-and-take for all involved."

CME fellow, Rob Gross, coordinator of the event, stressed that nonmusicians and initiates of this new field are especially welcome.

Each day of the five-day ongoing Computer Arts Exhibition in the Man-

deville Recital Hall.

Saturday's events (Oct. 30) will culminate in a full concert of performances with tape, at 8 p.m. in Mandeville Auditorium.

All events are free. For conference features an further details, call UCSD Center for Music Experiment, 452-4383.

The composer, who will himself coordinate the electronics, has studied with some of the most important contemporary composers including Piston, Stockhausen and Pousseur. He is also cofounder of the Sonic Arts Union—a group that has appeared widely in the U.S. and Europe presenting individual and collaborative music using simple or sophisticated electronics, photography, film and theater.

Jon Howard Appleton, winner of Guggenheim and Fulbright fellowships, will also appear at 2 p.m. Friday, Oct. 28.

Appleton has been faculty member and director of the Bergman Electronic Music Studio at Dartmouth since 1968 and in 1973 won second prize in the Concours International de Musique Electroacoustique. His composition, "In Deserto", is on the schedule.

Another guest, David Rosenbloom, has done

Avante-garde 97 music, dance set next week

On Friday, Oct. 21 at 8 p.m. the UCSD Music Department will present an evening of music, light painting, and dance in the recital hall of the Mandeville Center.

The works to be presented are "Chant," a new piece by Martin Grusin in which dance and light become extensions of musical timbre; "Midnight Rainbow," also be Grusin for Moog synthesizer and light painting; and excerpts from "Requiem" by Deborah Kavasch for four channel tape and voices featuring the Extended Vocal Techniques Ensemble of the Center for Music Experiment.

"Chant," made possible by a grant from the National Endowment for the Arts, will feature Kim Pauley dancer, and John Forkner creator of the Tympanum Luminorum, a performer controlled light instrument which creates kinetic abstract light paintings.

Kim Pauley was a fellow in' dance at the Center for Music Experiment in 1973-74. She has appeared at the Monday Evening Concert Series in Los Angeles.

The concert is free to the public. For information call 452SAN DIEGO CLIPPING SERVICE

CARLSBAD JOURNAL

OCT 15 1977



NEVA PILGRIM:

Soprano will perform with non-harmonic frequencies of "Inharmonique" by Jean-Claude Risset at Computer Music Conference at UCSD.

Computer music on tap at UCSD

In addition to many technical-oriented lectures, the 1977 Computer Music Conference, Oct. 26-30 on the UCSD campus, will also include exhibits and concerts of interest to all music-lovers — especially those who would like to expand their knowledge and appreciation of avant-garde works.

The program on Saturday night, Oct. 29, at 8 p.m. in the Mandeville Auditorium is the culminating event of the conference.

One of the works will be "Traveling Music," performed by pianist Dwight Peltzer and composed by Loren Rush. Rush of the Stanford Computer Center has been awarded a number of fellowships and prizes including the University of California's Prix de Paris, the Rome Prize of the American Academy in Rome, a Guggenheim Fellowship, and grants from the National Endowment for the Arts.

Jean-Claude Risset will come from the Institute for Research in Acoustics in Paris to present his work "Inharmonique," a piece composed almost entirely of non-harmonic frequencies giving it a very different effect than the sounds produced from traditional instruments.

The work's original interpreter, soprano Neva Pilgrim will perform. Pilgrim has served as artist-in-residence at Hollins College, the Cleveland Institute, and Oberlin. The New York Times has praised her performances of difficult new scores as remarkable for their "musical security and sensitivity, vivd textual projection, and glowing tonal beauty."

Admission to all events is free. For further information, call 452-4383.

SAN DIEGUITO CITIZEN OCT 1 9 1977

Side effects and all...

Computer music planned

The fact that two West appear at 2 p.m. Friday, Oct. Musique German psychiatrists have reported that constant exposure to contemporary music produces strange side effects on its performers has not dampened the spirits of the UCSD Center for Music Experiment.

On Oct. 26-30, the center will boldly proceed in hosting the 1977 Computer Music Conference -- a week-long event featuring a wide-range of, performances as well as lectures by some of the most eminent researchers in the

One of the foremost talks will be a studio report, Thursday, oct. 27, at 2:30 p.m. by Barry Lloyd Vercoe, assistant professor and director for experimental music at the Massachusetts Institute of Technology.

Also, on Thursday noon in Mandeville Auditorium, UCSD faculty member Bert Turetzky will perform David Behrman's "Solo for Bass and Melody Driven Electronics.

The composer, who will himself coordinate the electronics, has studied with some of the most important contemporary composers including Piston, Stockhausen, and Pousseur. He is also co-founder of the Sonic Arts Union -- a group that has appeared widely in the U.S. and Europe presenting individual and collaborative music using simple or sophisticated electronics, photography, film and

theatre.
Jon Howard Appleton, winner of Guggenheim and Fulbright Fellowships will also

28. member and director of the schedule. Bergman Electronic Music Studio at Dartmouth since 1968 and in 1973 won second prize in details call UCSD Center for

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LA JOLLA LIGHT

NOV 171977

Electroacoustique. His composition, "In Deserto," Appleton has been faculty is one of the highlights of the

All events are free. For more the Concours International de Music Experiment 452-4383.

Experimental music reruns

A concert at the UCSD Center for Music Experiment (CME), 408 Matthews Campus, will provide a second opportunity to hear some of the most successful pieces of last year, English Musical Theater pieces never before seen nightmare." in San Diego.

"Obdobla", for three for per-Francois formance in Paris. Last summer he presented it position here. On November 21 at 8. p.m., audiences will have another portunity to hear the work.

One of the theater represented by his pieces on the program is recent work "Pastoral" by "Merci" "a witty Scanton, portrait of a street past his musician prime." "Dum's Dream," by Roger togethe with a group of Marsh, is described as a "hilarious verbal

"Ambience" for percussionists, was trombone and tape, by written by UCSD faculty Richard Orton, will be composer Jean-Charles given its first U. S. performance as well as "Voicetest," a comfor Glyn speakers by Perrin.

> David Jones, assistant director at CME, will be

Steve for singer and tape.

The concert is free and open to the public. For information, phone 452-4383.

La golla Light 007 20 1977



Robert Gross, coordinator for the Computer Music Conference at UCSD, is shown debugging electronic hardware.

Computer music scores

The fact that two West German psychiatrists have reported constant exposure to contemporary music effects on its performers spirits of the UCSD for Center Experiment.

Sunday the center will host the 1977 Computer Music Conference - a week-long featuring a wide range of performances as well as lectures by some of the most eminent researchers in the field.

One of the foremost talks will be a studio report next Thursday, at 2:30 p.m., by Barry Lloyd Vercoe, assistant professor and director for experimental music at the Massachusetts Institute of Technology.

Also, on Thursday

Theater and Arts

composers including Musique Piston, Stockhausen and acoustique. Pousseur. He is also has appeared widely in resulting and collaborative music vestigation of aesthetics. simple or film and theater.

produces strange side noon in Mandeville winner of Guggenheim Auditorium, UCSD and Fulbright | Fellowhas not dampened the faculty member Bert ships, will appear at 2 Turetzky will perform p.m. Friday, Oct. 28. Music David Behrman's "Solo Appleton has been for Bass and Melody faculty member and Wednesday through Driven Electronics." director of the Bergman The composer, who will Electronic Music Studio himself coordinate the at Dartmouth since 1968. electronics, has studied and in 1973 won second with some of the most prize in the Concours important contemporary International de Electro-

> Another guest, David cofounder of the Sonic Rosenboom, has done Arts Union - a group that research in Toronto in new the U.S. and Europe methods of relating presenting individual brain activity to in-

As director of the sophisticated elec- program, Pauline tronics, photography, Oliveros says," The meeting under one roof Jon Howard Appleton, of such noted authorities

will insure a meaningful give-and-take for mall involved."

CME fellow. Rob Gross, coordinator of the event, also stressed the fact that nonmusicians and initiates of this new field are especially "These welcome. concerts and sessions will prove an ideal introduction to the most recent developments in contemporary music," he said.

Each day of the fiveday conference features the computer arts exhibition in the Mandeville Recital Hall. Saturday's events, Oct. 30 will culminate in a full concert of performances with tape; at 8 p.m. in the Mandeville Auditorium.

All events are free. For further details call UCSD Center for Music Experiment 452-4383....

SAN DIEGO CLIPPING SERVICE

Times-Advocate
OCT 2 5 1977

Computer music discussed

LA JOLLA — The Center for Music Experiment at UCSD will hold a computer music conference from Wednesday, to Sunday, Oct. 30.

In addition to lectures and technical discussions, there will be exhibits and performances for music lovers who want to expand their knowledge of avant-garde

Some of the speakers will be Barry Lloyd Vercoe of Massachusetts Institute of Technology at 2:30 p.m. Thursday, Oct. 27, and Jon Howard Appleton, Guggenheim and Fulbright award winner and director of an electronic music studio at Dartmouth University, at 2 p.m. Friday, Oct. 28. All sessions are in Mandeville Center.

Performances will include a work by David Behrman for bass and melody-driven electronics at noon Thursday in Mandeville auditorium with the composer coordinating the electronics.

A final concert at 8 p.m. Saturday, Oct. 23, will feature "Traveling Music" by Dwight Peltzer, pianist, and Loren Rush, composer, and "Inharmonique" by Jean-Claude Risset of Paris.

All lectures and concerts are free to the public. There also are informal, continuous presentations of recently composed tapes each day of the conference. Further information may be obtained by calling the UCSD music department.

SAN DIEGO CLIPPING SERVICE

LA JOLLA LIGHT

Page 14 Thursday, November 3, 1977

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Louise Spizizer



Brutal baton

expressive and sturdy, is so familiar that it can no

longer invite our full attention.

We looked forward to hearing Van Cliburn, the piano soloist, in the Concerto No. 2 by Liszt, less often played than No. 1. Alas, it was not to be. A program change was announced: It was No. 1, after all.

Cliburn gave a workmanlike performance; the orchestra, after a lot of unsteadiness in the opening movement, pulled together a workmanlike accompaniment.

The happy audience applauded enthusiastically

after every movement of each selection.

On Saturday we went up to Mandeville Center to hear the concert of the International Computer Music Conference, being hosted this year by UCSD. When we arrived, everyone was milling about outside the hall, in pitch blackness.

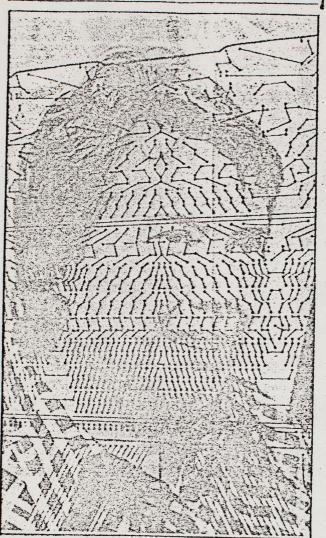
After a few speculations that this circumstance might be the first piece on the program, it was announced that a campus fire had knocked out the electric power, postponing the concert until next

day.

SAN DIEGO CLIPPING SERVICE

READER

OCT 27 1977



PAULINE OLIVEROS, UCSD

THE FACT THAT two West German psychiatrists have reported that constant exposure to contemporary music produces strange side effects on its performers has not dampened the spirits of the UCSD Center for Music Experiment. On the contrary, the center is hosting the 1977 Computer Music Conference—a five-day event featuring a wide range of performances, exhibitions, and lectures by some of the most respected researchers in the field of experimental music. The conference is intended to introduce veterans and initiates alike to the most recent developments in contemporary music, and will include during its duration:

Thursday, October 27: faculty member Bert Turetzky will perform David Behrman's "Solo for Bass and Melody Driven Electronics," with the composer himself—who has studied with such contemporary composers as Piston, Stockhausen, and Pousseur—coordinating the electronics, noon, Mandeville Auditorium.

Saturday, October 29: a full concert of performances with tape, including soloists on clarinet, voice, piano, and percussion, 8 p.m., Mandeville Auditorium.

Mandeville Auditorium.

Throughout the conference, a Computer Arts Exhibition will be on display, with the playing of audio and video tapes scheduled for Thursday, October 27, 4 to 7 p.m.; Friday, October 28, noon to 3 p.m., and 4:30 to 7:30 p.m.; Saturday, October 29, 9:30 a.m. to 12:30 p.m., and 4 to 7 p.m.; and Sunday, October 30, 9 a.m. to noon, and 2 to 5 p.m. Highlighting the exhibition will be talks by Gary Schwede entitled, "A Model for Real Time Visual Interpretation in Musical Experiences," on Friday, at 1 p.m.; and by William Fetter on: "Three Computer Graphics Research Activities Applicable to the Arts," on Saturday, at 5 p.m., all of which will take place in the Mandeville Center Recital Hall. For further details, call the UCSD Center for Music Experiment at 452-4383.

LA JOLLA LIGHT

OCT 27 1977

The last week in singers active and diversified perform indigenous Center week for the UCSD music department.

The UCSD Gospel Choir, directed by Cecil first concert of the season Oct. 31 at 8 p.m. in Mandeville Auditorium.

Compositions by Lytle Hawkins and Andre Crouch will highlight the evering, and as a special attraction, The Young Messengers will appear. The Los Angeles-based ensemble gospel by UCSD directed Pamela student Edwards will perform selections from their new album, "His Light."

The UCSD Gospel Choir is composed of 32

and inmusic, spirituals and through Sunday. gospel songs.

well as Edwin Program at UCSD. Mar. The 1977 Computer

Today at noon, the Since joining the Conference will offer a Lytie, will present its UCSD Music Faculty major work for live two years ago, Lytle electronics and confounded the Gospel trabass, performed by Choir and several jazz composer David ensembles as part of the Behrman and bassist Afro-American Music Bertram Turetzky of Del

On Saturday at 8 p.m.

Music Conference, in the Mandeville Audi-October is a particularly strumentalists who sponsored by the UCSD torium a concert of for Music performances with tape Afro-American sacred Experiment, continues will be the culminating event of the conference.

Concerts are free.

Act' Mainly A Sho

By RICHARD EDER

ing presence of Liza Minnel-Inflaginative.

It is and her command of a What is mainly lacking in for theater, rather than theforce that is the emotional "The Act" is a book. George
equivalent of what a good Furth's story about the procoloratura achieves in top fessional and personal trouform—although in her case bles and triumphs of an innelli and the character she
is the mixture of singling and security provided to the protitle mixture of singling and security provided to the prolike of the provided security provided to the procoloratura.

In its bumpy trip across most trite and synthetic diacountry "The Act" is said to logue. New York Times News Service country "The Act" is said to logue.

NEW YORK — "The Act" have had serious directorial It is not really trying, in is precisely what its name problems. By the time it fact, to be much besides a implies: It is an act, and a opened Saturday night at the device to show off Miss Minsplendid one. On the other Majestic Theater, and whathand, it is a little less than ever the relative contributions imply. Theat tion of Martin Scoresse, the nuity between numbers—

lical though it is as a nor original director and Cower when it attempts to be any

it is a mixture of singing and secure movie star who be-plays—Michelle Craig—as other things. It has a small comes—a nightclub there was between Ethel but brilliant chorus line; and performer, is not just thin; it Merman—and Annie in its costuming, lighting and hardly pretends to be there "Annie Get Your Gun," or all-over cutting edge are a at all. It has little develop—between Carol Channing and kind of vaunting of the talent ment or characterization of Lorelelei Lee in "Gentlemen available to American show its own; and except for a Prefer Blondes." The role is

rical though it is as a per-original director and Gower when it attempts to be anyformance, it is indifferent Champion, who was called in thing more it tends to be
musical theater. to help out, its pace and embarrassing — and as a

It displays the breathtak-staging were polished and result "The Act" is a firsting presence of Liza Minnel- imaginative.

The capacity of the start states there they

The capacity of the start states the start states the start states the start states the start star

stray line or two, only the not a vehicle for Miss Min-

Electronic Music A Reality, UCSD Conference Shows

Music Conference. well the t The event was hosted last sonorities.

week by the Music Department of UCSD and the The composer, Risset, was spoken text in reverberant university's Center for part of the international sonic columns, in which each Music Experiment. Like community of electronic word is unmistakable, yet other types of music, elec-composers present at the given new depth by electronic music may be stimu-conference and appeared on lating or soporific. Works a panel yesterday. With "Contrapunctus 1977" by such as Irmfried Radauer's other colleagues from the Dean Wallraff was even "Ockeghem 1977" fit the for-United States and Sweden he more traditional with its more category, with rich discussed the relationship of simple fuzal lines not unlike

By KENNETH HERMAN ique." Soprano Neva Pil-rightly hailed as a new lan-The coming of age of elecgrim realized the vocal part guage of music, that does
tronic music is a present of sustained vowels (there not mean that all traditional
reality, judging from the was no text) surrounded by elements must be forsaken.
breadth and richness of musical offerings heard at the clusters. Pilgrim's clear and
laxxxi," composition by
1977 International Computer appealing voice matched
Music Conference.

well the bell-like electronic
The event was hosted last sonorities

mer category with rich discussed the relationship of simple fugal lines not unlike organ-like sonorities and the composer to the design the Moog synthesizer's rencomplex, engaging texture. of computer programs which dition of Bach inventions.

At the other end of the translate the composer's Of longer works, Marc spectrum, William ideas into sound. This func-Battier's "Objets Battier's "Objets".

organ-like sonorities and the composer to the day of longer works, Marc spectrum, William ideas into sound. This function of longer works, Marc Battier's "Objets empruntes" (borrowed displayed a variety of traditional composer's task effects, but insufficient of orchestration, although coherence to sustain inter- with the sophisticated nature est. Of the computer, some conditions of the most impressed temporary composers feel sive works heard was a they are entitled to the medicity performance of Jean- ation of computer engineers.

Claude Risset's "Inharmon- While electronic music is the faintly naturalistic "program" could be assigned to the Australian Barry Conyngham's "Through Clouds." His more compact work enveloped the compact work enveloped the audience in opaque sound

This computer music conand convention business for cities. As the Carter administration's arts advocate, Mrs. Mondale told 3,000 members of the International City Management Association in Atlanta "the arts are a key ingredient in the attraction of tourist dollars." She then visited an Atlanta playground designed "duce "Billy" beer Monday in their five days of listening, reading papers, and cordial maker Revell Inc. is display-debate with but one ironic wrinkle. The Saturday evening "Redneck Power Pick-up" kits, slated for sale next spring. The kit will come to complete with a CB radio and a tiny six-pack of beer in the back.

Tom Fletcher of St. Paul, Surely the only calamity

Joan Mondale, wife of will recuperate at home.
Vice President Walter Mon-Billy Carter has lent dale, played in a sculptured playground yesterday and told an international group of city managers the arts are vital to boosting tourism and convention business for Atlanta playground designed
Atlanta playground designed
Tom Fletcher of St. Paul,
Surely the only calamity
Minn builds dollhouses for a
Noguchi, swinging on a modliving — and his work could
crn-art swing next to Atlanta
be hard on his waistline.
Mayor Maynard Jackson,
but declining to slide down a
Sliding board.

music buildings are located.
Surely the only calamity
more disastrous than a
prima donna with laryngitis
is a program of electronic
music with no current.

Billy Carter has lent his densities. name to a new brand of beer and his pickup truck will be immortalized in a toy model too. President Carter's be held on the West Coast. brother will officially introduce "Billy" beer Monday in their five days of listening.

MUSIC REVIEWS

Two Concerts at Computer Music Conference at UC San Diego

The union of science and art became exhilarating reality last week as composers and engineers from around the world converged on UC San Diego to participate in the 1977 International Computer Music Conference. The wooded campus provided an idyllic background for day-tonight sessions of paper readings, equipment exhibitions, vi-

sual displays, lectures and concerts.

Two computer music programs held Friday and Saturday evenings climaxed the five-day proceedings. Friday, chief interest centered around "Pastoral" by David Jones, whose computer-processed solo vocal part achieved a heightened form of poetic declamation, and "KIVA" by John Silber and Jean-Charles Francois, a dramatic hourlong improvisation of electronics, computer-generated sounds and unconventionally played acoustic instruments.

On Saturday, two significant works, "Effetti Collaterali" by James Dashow and "Inharmonique" by Jean-Claude Risset, proved the viability of combining real-time perfor-

mance with computer-generated sounds.

Compositional parallels existed between the two large works ("Effeti" lasting about 12 minutes and "Inharmonique," 15). Each pitted a single live protagonist (in the first, a clarinet, in the second, a soprano) against the supersounds of digitally generated FM timbres. In both pieces the solo part suggested serial pitch organization, while the taped chime- and gonglike events resonated with indeterminate frequencies. Logical sectionalization and coherent panning patterns strengthened the two structures. Each explored timbral and antiphonal relationships of live and electronic sounds.

However, the clarinet sounds, superbly executed by Philip Rehfeldt, resulted in a more successful timbral blend with the electronic ones than did the human "ahs," "oos," gasps, moans, sighs, hums and sibillants efficiently projected by Neva Pilgrim. Her unmiked voice failed to couple acoustically with the speakers' output, the two

sound streams remaining in separate planes.

"Traveling Music" by Loren Rush sparkled, its extended E dominant powerfully resolving to a symphonic A-major I tonic chord. Pianist Dwight Peltzer's inexhaustible left hand pounded out repeated tones ornamented heterophonically by his right hand, while the speakers provided a background of computer generated sitar- and banjolike sounds along with percussive bass events.

Herbert Bruin's "Plot," played with tongue-in cheek

frenzy by Jean-Charles Francois, satirized contemporary percussion gestures.

Jon Appleton's lyric "In Deserto" and Wesley Fuller's piano-tape "Time Into Pieces" rounded out the program. -PHILIP SPRINGER su--u 21636 5 u bc-74musicomy edv24 11-20 1661 aiv for weer terianing iec 40 - HORIZONS ALST -=
IJ NON BUTCHE (SOLL SAN Blade (LDI) - Imagine a musician playing a computer, or even farther out, a consuter playing a musicion. They're doing it at the more progressive colleges of music, and it may well become connumplace in the future. The results can be hellow and smooth like the enhanced richer-than-life voice of a cello. Or, as with other forms of dehumanization, minuless clanging and jarring occurs. It depends on what the composer wants. < There are three basic approaches: < -Using a computer to control settings on synthesizer modules. -having a computer produce a composition. -And using a computer in the performance of already conceived Combinations go both to mixing the approaches and combining live musical ileas. < play by a musician with computer assistance to develop a man-machine interplay.< terplay. < The property of California at Sar Diego. < Computer Music Conference at the University of California at Sar. David Behrman, director of the Center for contemporary music at Mills College at Oakland, and Bertram Turatzky, associate professor of music at the UCSD, played in concert - Behrman on a computer and Turetaky on a custom-made electric contrabass. Lehran operated a conference table full of electronic devices including a minicomputer, oscillators and synthesizer nodules. Turetzky improvised around notes and chards qued to him by Tehrran. The resulting music coming from four large speakers was a blend of computer synthesized sounds Tehrman commensed the computer to levelon. man-made sound and new sound patterned by the computer in reacting to the man-made soupl. < lass definition was heightened and given new polors, and Turetaby produced effects ranging from warbles to percussive tabs and plucks. There were to earie, futuristic sounds. < Partists need access to the most current tools in modern technology in pursuit the most effective means of carrying out their works. Tauling Cliveres said in introducing the two men at the concert. The is in associate professor of rusic at the UCSD, a recorded composer of electronic music and director of the school's Center for Music Experiment. < She also made an observation indicative of the future of her game: students are not attracted to colleges of ausic that to not offer vigorous computer music programs. < The history of computer music goes back to the synthesizer, Elliott Schwartz, author, composer and associate professor at Towicin College, wrote in his book, "Electronic Music." wrote in his book, "ilectronic Music." (
The modular synthesizer enables a composer to alter pitch. timbre, duration and other factors ... ty applying control voltages to various electrical signals, " he said. re said a synthesizer is made up of various modules, each about the size of a small transistor railo, that can be activated in a wide variety of continuations for different sonic functions - sound generation, souri sciification, voltage control generation and voltage control processing. The activation, or playing, of the synthesizer can be by hand, as with a keyboard, or by computer. Music is not the only scal. As indicated by technically back, rounded speakers at the conference, companies like Tell Telephone are researchin, the practical aspects of computer-generated signals for transmitting voices and information around the world. It is a field that has not hit the street yet. Hames of the topics at the conference point to the sophistication required. Among them: hybrid systems of microprocessors, tehavior of users of interactive computer music systems and composing grammars and envelops control with an optical keyboard. adv for week teminming dec 44 urt 11-10 12:13 5755