Computer Music Journal

The *Computer Music Journal* will be devoted to the development of computer systems which are capable of producing high quality music. The following topics will be covered:

  ★ production of natural sounding timbre or quality of tone by Fourier like synthesis (with up to 128 ultra low distortion sine waves from one digital oscillator) , FM synthesis, and new methods
- design of real time playing instruments
- real time controllers such as organ like keyboards, joysticks, pressure sensitive pads, and new designs
- circuit design of microprocessor or minicomputer controlled digital oscillators (any waveshape)
- high speed multiplication (16 bit $\times$ 16 bit $\rightarrow$ 16 bit product in less than 200 ns)
- review of hardware components
- composition of music using a computer
- music theory which would be more easily realized with a computer than with traditional instruments
- homebrew digital music instruments
- choral effects
- digital filtering
- envelope generation of any shape
- digital reverberation and movement of spacial location with Doppler shifting
- high resolution, high speed digital to analog converters
- analysis of acoustic instruments
- psychoacoustics

  ★ reviews of books about computer music, acoustics of musical instruments, psychoacoustics, music theory, computer design, and electronics.

The first issue of the journal will be about 50 pages in length. If enough people subscribe to pay for printing a larger journal, the journal will increase in size. A one year subscription will cost $14 and be published by PCC non profit. The journal will be published every other month. The first issue will be mailed out during January, 1977.

If interested please mail to: PCC, Box E, Menlo Park, Ca. 94025

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☐ Enclosed is $14 for a one year subscription to the *Computer Music Journal*

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