

International Computer Music Association  
NEWSLETTER Vol. 1, no. 1  
January, 1980

Welcome to this, the first, issue of the quarterly International Computer Music Association NEWSLETTER. It is intended to have this issue serve for readers as an introduction to the ICMA. It will be used as a vehicle through which we can 'meet' potential members, collect and respond to the feedback which you are invited to give.

As you may know already, the ICMA was born out of what many attendants of the 1978 International Computer Music Conference (Northwestern University) saw as a need for, or at least an interest in, the formation of such an organization; one which would enable computer music people to remain in touch with each other even between conferences. The purpose of the Association is detailed in the proposed Constitution which is included in this NEWSLETTER, but is most generally to promote and provide for the development and furtherance of the art and science of computer applications to music.

At this time, steps are being taken to establish the ICMA as a legal entity. The structure which appears to best suit the Association's functions is that of a California State, non-profit, tax-exempt corporation. Some of the advantages to setting it up as such would be: 1) contributions to ICMA become tax deductible, 2) eligibility for substantial grants, 3) a well-defined legal and working structure, etc. Subsequent issues of the NEWSLETTER will address questions as they arise concerning the ramifications of incorporating. Suffice it to say that all readers are invited to submit their comments on this subject.

ICMA NEWSLETTERS will function to provide, among other things, a channel for communication between members. It will be open to all members as such a channel. The NEWSLETTER will serve as a point of reference for those interested in contacting others working in their area of study or for those members interested in setting up computer music exchanges, sales, or purchases. A typical issue might contain several or all of the items listed below:

- directory of computer music compositions by ICMA members available through composer or publisher
- directory of computer music software, software/system documentation
- classified ads: used/new hardware, software, services, etc.
- announcements: upcoming concerts, conferences, classes, grants, etc.
- contributions such as informal articles or abstracts by members, editorial comments, members' comments, technical notes, how-to's,

studio profiles, etc.

Members are invited to submit materials for the NEWSLETTER in facsimile form, in any language (if other than English, please submit an abstract in a second language, preferably English) to the following address:

INTERNATIONAL COMPUTER MUSIC ASSOCIATION  
p.o. box 1634  
San Francisco, CA 94101  
U.S.A.

One final note, general member fees are \$6.00 annually, student member fees are \$4.00 annually (please enclose a copy of current student registration card).

We look forward to hearing from you and hope you enjoy this issue of the ICMA NEWSLETTER.

Sincerely,  
  
Thom Blum  
ICMA coordinator

ML  
1380  
N4  
v. 1

S/163D

Paris, le 23 Novembre 1979

Thom Blum  
ICMA  
P.O. Box 1634  
San Francisco

PADOVA COMPUTER MUSIC GROUP  
CALL FOR COMPOSITIONS

Dear Thom,

First, congratulations for the birth of ICMA, and for your activity as ICMA coordinator. Here are a few suggestions as to the content of the Newsletter, nothing that you haven't already thought of, I'm sure.

The Newsletter could contain (include) short descriptions of current projects; in clear, a sort of 'directory of scholars actives', describing both the technological means (hardware & software), and the musical project, and eventually what kind of help from others could be brought.

Also, mention of concerts including, or devoted to computer music will make it easier to follow the growth of our community's activities, and its artistical diffusion. Also, universities or summer classes giving courses of computer music, in all respects.

The mention of articles published elsewhere might make it easier for european members, to have access to them. And of course, all kinds of announcements : call for compositions, concerts, competitions, new products, published or unpublished scores, conferences and so weiter.

Last but not least, you know how long it takes to mail something to Europe and get a feedback; usually, it takes at least a week, when not a month for surface mail. This is quite a long turnaround time. A short mention of this reality should, if necessary, incite North American members to give infos to the Newsletter quite long in advance. (This is a personal misadventure, with the Sonavera competition).

As to Vincennes, you will receive under separate cover a list of our compositions, as well as a short text, in french. Feel free to use it or dismiss it, as you wish. At last, please accept my encouragements for this project, and be sure that we, at Vincennes, will try to help ICMA around us.

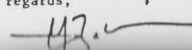
The Padova Computer Music Group has been asked to organize a series of concerts of electronic music with emphasis on computer generated works for the Spring of 1980. Pieces for soloist + tape are especially desired, particularly piano, soprano, cello or (limited) percussion. Any composer wishing to have his work considered for the bill is invited to send tapes (15 or 7 1/2 ips, 1/2-track stereo, dbx optional, sorry, no Dolby) to:

James Dashow  
presso Bombi  
Via Tirana 25  
35100 PADOVA  
ITALIA

Tapes not included in this season's concerts will be considered for 1981, and all tapes will be available for listening at the tape library of the Centro di Sonologia Computazionale (CSC) at the Univ. of Padova. Composers are asked to include program notes and a short biographical statement. Also, please indicate if the piece is published and with which, if any, royalty-collecting agency you are affiliated.

--Submitted to ICMA Nov. 29, '79

Best regards,

47. 

## INFORMATICA MUSICALE \*

The Venice Biennale, one of Europe's most well known and prestigious festivals of contemporary arts, has given the go-ahead for establishing a Laboratory for Musical Informatics. The Biennale will fully finance, publicize and generally support computer music activities of all kinds. The Laboratory will function under the auspices of the Biennale's Music Section directed by Mario Tessinis, a long-time advocate of serious contemporary music activities. He is a highly respected historian and critic of 20th Century music who was quickly able to recognize the potential contribution of the computer to the musical art of our time.

The Laboratory will function in close collaboration with the recently formed Centro di Sonologia Computazionale (CSC) at the University of Padova. The CSC is a recognition and formalization by the University of the computer music activities being carried out by the Padova Computer Music Group (James Dashow, Giovanni De Poli, Graziano Tisato, Alvisio Vidolin) which has been active for the last four years. The Laboratory will make use of the hardware at the Computer Center of the University of Padova (a major IBM 370/158 installation). Software will be the various programs, both in-house and 'imported' of the CSC. Users will have at their disposal the CSC's central 'Sistema Musica' which is a unique set of integrated procedures written under TSO that coordinates all the synthesis, analysis and conversion programs through a series of master commands. Synthesis programs include MUSIC360, MUSIC V and MUSIC4RP. (For further details on the CSC facilities the reader should refer to the Studio Report of the Padova Computer Music Group presented in the 1978 International Computer Music Conference, Northwestern University and available through the Computer Music Journal.)

The activities of the Laboratory will be oriented toward three major areas:

-Instruction -- Special courses in the fundamentals of programming for electronic music will be offered, as well as more advanced courses for the composer who desires to keep up to date with the latest developments in the field. Hands-on approach will be emphasized, and the staff is continually available to discuss problems and ideas.

-Commissions for new musical works -- Several composers will be commissioned each year to create new works at the Laboratory for inclusion in an annual concert under the auspices of the Biennale in the Fall. Composers of international reputation as well as those participating in the courses will be eligible. Composers residing outside of Italy who wish to be considered for a commission should

send a tape containing representative works in the medium to:

Alvisio Vidolin  
La Biennale di Venezia  
Settore Musica  
S. Marco, Ca' Giustiniana  
30100 VENEZIA  
ITALIA

Composers should be prepared to spend at least 1 to 2 months in Padova, and should be able to work with one of the three programs listed above or come with his own program in either Assembler, PL/I or FORTRAN (there is no limitation on memory capacity). The commission fee will include some of the composer's expenses in Italy.

-Research -- Scientific research will be conducted in the following general fields:

1) The use of the computer as a tool for the composition and development of musical structures 2) The synthesis of new musical instruments 3) Acoustics and psychoacoustics.

The complete facilities of the Laboratory will be made available to selected researchers. Musicians, musicologists, acoustical researchers in general are invited to send project proposals to Mr. Vidolin at the above address.

The Laboratory will be responsible for the international distribution and promotion of all works produced under its auspices, and in particular, will issue a semi-annual bulletin detailing the results of work in the various fields as well as containing information about future activities.

For 1980, the following program has been scheduled:

-First Course -- Introduction to Musical Informatics (Spring, 1980); primarily for composers, the course deals with the various possibilities and potential of the computer in musical applications. This course (or evidence of its equivalent) is prerequisite for the following courses.

-Second Course -- Digital Synthesis Techniques and Programming for Musical Composition (Summer, 1980); primarily for those composers who wish to learn one or more digital synthesis techniques. Hands-on lessons will be emphasized throughout. Both courses will be taught by members of the Padova Computer Music Group and special guests.

-Commissions -- Four pieces will be commissioned, 2 for 'computer solo', and 2 for live soloist(s) with computer generated accompaniment. The four works are to be realized in the Laboratory and will form the program for a Biennale concert in October of 1980 in Venice. The concert will be recorded and subsequently broadcast nationwide by the RAI (Radiotelevisione Italiana). Any private FM radio stations wishing to have copies of tapes for broadcast should send inquiries to Mr. Vidolin at the above address.

## COMPUTER MUSIC AT INDIANA UNIVERSITY

Donald Byrd

11 December 1979

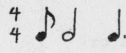
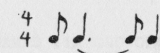
-Research Programs -- Creation of a coordinated group of simulation models for sound synthesis and musical composition: The aim is to realize a wide repertory of 'instrument' programs which can be directly employed by composers. The set of programs will be optimized and integrated by a homogeneous operational syntax, and as such, will give composers access to a flexible system of digital synthesis options both for study purposes and for composition. (Research is under the direction of Alvisé Vidolin.)

-Semi-annual Bulletin -- The first issue will contain contributions by composers and researchers with respect to the subjects dealt with in the First Course, 'Introduction to Musical Informatics'. The second issue will be more specialized, containing the results of the first year's research as well as musical-technical descriptions and analyses of the works composed in the Laboratory.

\* Submitted to ICMA by: James Dashow  
 Prossio ROMSI  
 Via Tirana 25  
 35100 Padova  
 ITALIA

At Indiana University the lack of good digital sound synthesis and interactive computing facilities has led us to take an approach to computer music quite different from many installations'. As described in my article in *Computer Music Journal*, vol. 1 no. 2, we've concentrated on software for a large general purpose computer (CDC 6600). We've also done quite a bit of work in non-composition oriented areas, especially programs for music theorists.

I'm continuing to work on my SMUT music printing program and am planning a new version in RATFOR or FORTRAN 77. Recently I've been working on a very interesting problem that I thought I had solved -- until I tried to write up my solution this summer. The problem is how to simplify for readability a given rhythm pattern that "obscures the beat". Every notation book has examples like:

$\begin{array}{c} 4 \\ 4 \end{array}$ 

       should be written
  $\begin{array}{c} 4 \\ 4 \end{array}$ 


but none I know of has anything remotely resembling specific rules. If anyone has any information on this problem, I'd appreciate hearing about it.

It looks as though we'll finally have 16-bit stereo digital-to-analog conversion replacing our current 8-bit mono. Greg O'Drobinak has designed and is now building a board for our system using two low-cost Datal 16-bit DACs. This should increase composers' interest somewhat. However, for the foreseeable future we'll still be hampered by having to do so-called "direct" synthesis on the main computer on campus and carry tapes to the electronic music studio to hear them.

Finally, Prof. Gary Wittlich of the I.U. Music School has received funding to buy a large Z-80 system with a graphics terminal to be used primarily for organ keyboard encoding of music.

The I.U. Computer Music System (see my before-mentioned article) includes relatively machine-independent programs for composition, music printing, analysis, and sound synthesis, and it is available from me for a nominal charge.

Donald Byrd  
 Wrubel Computer Center  
 Indiana University  
 Bloomington, Indiana 47401

911 22nd Ave. S. #179  
Minneapolis, Mn. 55404  
November 9, 1979

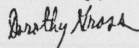
Curtis Roads  
People's Computer Company  
1263 El Camino Real, Box E  
Menlo Park, Ca. 94025

Dear Mr. Roads:

Enclosed is a copy of my summary of current projects in music analysis. Basically it is in the same form in which I received it at the 1978 ICNC, except that I have edited it somewhat, in the interest of clarity (and brevity). You certainly have my permission to print it. If it is too long for the ICMA Newsletter, would an abbreviated list of all entries in the newsletter, accompanied by a more detailed listing of the more substantial entries in the Computer Music Journal be appropriate?

I look forward to hearing from you, and am quite excited at the prospect of an International Computer Music Association.

Sincerely,



Dorothy Gross

Enc.

Send to Thom Blum

Survey of Music Theory Activities

1978 International Computer Music  
Conference, Northwestern U.

Compiled by Dorothy Gross

Name: Bo Alphonse, 328 Sherbrooke Street, Beaconsfield,  
Quebec H9W 1R3, Canada (McGill University)

Hardware: IBM 370

Software: FORTRAN, SNOBOL4, programs in twelve-tone theory,  
two large analytic programs using the invariance  
matrix concept.

Projects: syntax checker for DANMS (in SNOBOL4), further  
small twelve-tone utility programs.

Others in Group: none, but Stephen Haflich at Yale has  
further developed the invariance matrix theory for  
compositional purposes.

Name: M. Edward Borasky, 10013 Greenbelt Road, Glenbrook,  
Md. 20801

Hardware: KIM-1, AP-120B, Altair 680-B

Software: pulse width, delta modulation; transform methods  
(Fourier, number-theoretic, Z. Laplace); concurrent  
operating systems.

Projects: extremely low-cost hardware.

Others in Group: no response

Name: Alexander R. Brinkman, Eastman School of Music, 26  
Gibbs Street, Rochester, N. Y. 14607

Hardware: IBM System 3032, TEC-10

Software: PL/1

Projects: utility programs for 12-tone analysis (matrices,  
combinatorial properties, etc.) and pitch-class set  
identification. Designed for easy use by musicians  
who are not familiar with computer programs; many are  
written as subroutines.

Others in Group: no response

Name: Orion Crawford, Prime Time Music Co., 11159 $\frac{1}{2}$  Sun-  
shine Terrace, Studio City, Ca. 91604

Hardware: no response

Software: no response

Projects: computerized music notation for professional  
use in arranging, transcribing.

Others in group: no response

Name: Siobhan Drummond, 1007 W. Oregon, Urbana, Il. 61801

Hardware: no response

Software: no response

Projects: attempting to demonstrate the invalidity of  
linguistic analysis in music theory.

Others in Group: no response

Name: Beverly Grigsby, 17639 Osborne St., Northridge,  
Ca. 91325 (Cal. State at Northridge)

Hardware: Nova 3/12, New England Digital Synthesizer

Software: SING, TEACH-PERFORM, FLAY; XPL user

Projects: analog-digital utilization of sight-singing,  
in an ear-training program.

Others in Group: David J. Murray, Chris Shelton, Scott  
Wilkinson

Name: Dorothy Gross, 911 22nd Ave. S. #179, Minneapolis,  
Mn. 55404 (University of Minnesota)

Hardware: Cyber 74

Software: Cal SNOBOL programs to aid in music analysis  
(Gross Analysis Package), also available in SUTBOL  
on IBM equipment.

Projects: encoding and analysis, more work on tonal  
analysis.

Others in Group: Daniel Bailey, Gregory Winn

Name: W. E. Hultberg, Crane School of Music, State Uni-  
versity of New York, Potsdam, N. Y. 13676

Hardware: IBM 360/40 (planning to upgrade), Interdata 7/16

Software: PL/1, FORTRAN IV

Projects: tablature transcription; CAI

Others in Group: M. I. Hultberg, Ted Tenny

Name: David Levitt, MIT Artificial Intelligence Lab,  
545 Technology Square, Room 921, Cambridge, Ma. 02138  
Hardware: DEC-10 AI computer, drives North Star Z-80 micro-  
computer slave, which controls 12 chromatic square-  
wave pitches in real time  
Software: no response  
Projects: simulation of aspects of Western tonal and  
rhythmic dialects (e.g. jazz, popular, classical).  
Others in Group: Marvin Minsky, Sam Lipson

Name: Harry Lincoln, SUNY Binghamton, Binghamton, N. Y.  
13901  
Hardware: IBM 370, ITEL  
Software: no response  
Projects: thematic indexing, music typography with line  
printer, melody as wave form (proposed).  
Others in Group: James Snell

Name: Rosalee Nerheim, 315 Eigenmann Hall, Bloomington,  
Indiana 47401 (Indiana University)  
Hardware: CDC 6600, Cyber 172 main frame, Xerox Sigma  
Five  
Software: Indiana University Computer Music System  
Projects: constantly improving on the IUCMS.  
Others in Group: Donald Byrd

Name: Robin Nicklas, University of Pittsburgh, Music  
Department, Pittsburgh, Pa. 15260  
Hardware: DEC 10, PDP 11/03  
Software: SNOBOL4  
Projects: developing a generative grammar for trans-  
cribing S. Gallan chant (Mo. #159 m.s.)  
Others in Group: Bill Book, Bob Morris, Wayne Slavson

Name: Martin Prével, Laboratoire d'Informatique Musicale,  
Laval Université, Quebec, Canada  
Hardware: IBM 370, Micro 8080, "Rolland" electronic  
piano, touch panel  
Software: APL-SU, Alphamuse (music encoding statements)  
Projects: a system for music man-machine dialogues; stan-  
dardization in alphanumeric music notation  
Others in Group: Jacques Benoit, Martin Dumas, Pierre  
Lewis

Name: Rosalie Sward, 3600 Hillside Rd., Evanston, Ill.  
60201 (Northwestern University)  
Hardware: CDC 6600  
Software: Gross Analysis Package, MUSIC 4BP, Stochos  
Projects: comparison of the techniques of stochastic and  
serial composition.  
Others in Group: Peter Gena, John Buccheri, Gary Kendall



Name: John Ulrich, University of New Mexico, Albuquerque,  
New Mexico

Hardware: no response

Software: SNOBOL

Projects: programs for key center identification.

Others in Group: no response

International Computer Music Association Member Questionnaire

Note: The purpose of this questionnaire is to gather information which may help provide services and facilitate communication and exchanges among members of the ICMA. Please answer as many questions as are appropriate to your situation. Note, however, that completion of this form is not a prerequisite to membership in the ICMA. Thank you for your cooperation.

(1) name \_\_\_\_\_

(2) address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(3) telephone number \_\_\_\_\_

(4) background (education, work, etc. - a brief summary)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(5) When did you first begin to work with computer music?  
\_\_\_\_\_  
\_\_\_\_\_

(6) What are your areas of interest in computer music?  
\_\_\_\_\_  
\_\_\_\_\_

(7) What are your current areas of activity in computer music?  
\_\_\_\_\_  
\_\_\_\_\_

(8) Do you have access to a computer music facility? \_\_\_\_\_

(9) If "yes" to (8), describe the facility (hardware, operating system, other software)  
\_\_\_\_\_  
\_\_\_\_\_

(10) If "no" to (8), do you have access to a computer dedicated to other applications? \_\_\_\_\_

(11) Do you have music software available which others could use? (describe) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(12) If "yes" to (11), what format (file system, etc.) and medium (e.g., 9-trk tape) is it available on, and for what terms?  
\_\_\_\_\_  
\_\_\_\_\_

(13) What software would you like to receive from others?  
\_\_\_\_\_  
\_\_\_\_\_

(14) If you are a composer of computer music, provide (on a separate sheet) a list of your compositions, your publisher (if any), and information on recordings (commercial or private) and their availability (e.g., rental or sale of tapes or scores).

(15) If you have written papers or books on computer music, provide (on a separate sheet) a list of these papers, their place of publication, and information on their availability.

(16) If you have purely technical interests and skills, please list them on a separate sheet.

(17) If you have any additional comments, please submit them on a separate sheet.

(proposed)  
Constitution  
of the  
International Computer Music Association, Incorporated

I

This organization shall be known as the International Computer Music Association, Incorporated.

II

a) The specific and primary purposes of this organization shall be first, the development and furtherance of the art and science of computer music. Second, the organization will provide and promote the interchange of information and artifacts pertaining to the utilization for musical purposes of computers, computer peripheral equipment and computer software. These exchanges will be conducted among organization members and with the public in a context of mutual trust and respect, through educational services and publications, media presentations and archives, all of which are aimed at increasing general awareness about computers as they are used in conjunction with the art of music. Third, the Association will assist in the organization and the support of the International Computer Music Conferences held annually. This corporation will perform all other acts necessary or incidental to fostering the collective interests of the computer music community, but will engage only in activities which are charitable and educational and are entitled to charitable and educational status for tax purposes.

b) The general purposes and power are to have and to exercise all rights and powers conferred on nonprofit corporations under the laws of California, including the power to contract, rent, buy or sell personal or real property, provided, however, that this corporation shall not, except to an insubstantial degree, engage in any activities or exercise any powers that are not in furtherance of the primary purposes of this corporation.

c) By law, no substantial part of the activities of this corporation shall consist of carrying on propaganda, or otherwise attempting to influence legislation, and the corporation shall not participate or intervene in any political campaign (including the publication or distribution of statements) on behalf of any candidate for public office.

III

This corporation is organized pursuant to the General Nonprofit Corporation Laws of the state of California. This corporation does not contemplate pecuniary gain or profit to the members thereof and it is organized for nonprofit purposes.

IV

The principal office for the transaction of the business of this corporation is located in the county of Alameda, state of California.

V

The names and addresses of the persons who are to act in the capacity of incorporating directors until the selection of their successors are:

NAMES	ADDRESS
1. Thomas L. Blum	2717 Alcatraz Avenue Berkeley, CA 94705
2. Curtis B. Roads	542 Webster Palo Alto, CA 94301
3. John M. Strawn	1245 Webster Palo Alto, CA 94301

VI

The manner in which the Board of Directors shall be chosen and removed from office, their qualifications, powers, duties, compensation and tenure of office, the manner of filling vacancies on the Board, and the manner of calling and holding of meetings shall be as stated in the bylaws.

VII

The authorized number and qualifications of members of this corporation the different classes of membership, if any, the property, voting, and other rights and privileges of members shall be as set forth in the bylaws.

VIII

The legal title and ownership of all property and assets of the organization shall be vested in the International Computer Music Association, Incorporated. This corporation is not organized, nor shall it be operated for pecuniary gain or profit, and it does not contemplate the distribution of gains, profit, or dividends to its members, and it is organized solely for nonprofit purposes. The property, assets, profits, and net income of the association are irrevocably dedicated to artistic, cultural, educational, and

charitable purposes meeting the requirements of Section 214 of the Revenue and Taxation Code, and no part of the profits or net income of this corporation shall ever inure to the benefit of any director, officer, or member, or the benefit of any private shareholder or individual. Upon the dissolution or winding up of this corporation, its assets remaining after payment of, or provision for the payment of, all debts and liabilities of this corporation, shall be distributed to a nonprofit fund, foundation, or corporation that is organized and operated exclusively for artistic, cultural, educational, or charitable purposes and that has established its tax-exempt status under 501(c)(3) of the Internal Revenue Code and Section 23704d of the Revenue and Taxation Code. If this corporation holds any assets in trust, they shall be disposed of in such manner as may be directed by judgment of the superior court of the county in which this corporation's principal place of business is located, on petition by the Attorney General or by any person concerned in the liquidation.

In witness whereof, the undersigned, being the persons hereinabove named as the first directors, have executed these Articles of Incorporation.

Dated: December xx, 1979 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(proposed)  
Bylaws  
of  
International Computer Music Association, Incorporated

ARTICLE I. PURPOSE

The specific and primary purposes for which this corporation is formed are as set forth in Article II of the Articles of Incorporation of the International Computer Music Association, Incorporated, filed in the office of the Secretary of State of the State of California. In addition, this corporation is formed for the purpose of performing all things incidental or appropriate in the achievement of the foregoing specific and primary purposes and shall have other exclusively charitable purposes as the Board of Directors may authorize or approve from time to time, whether related or unrelated to the foregoing specific and primary purposes. The corporation shall hold and may exercise all such powers as may be conferred upon a nonprofit corporation by the laws of the State of California and as may be necessary or expedient for the administration of the affairs and attainment of the purposes of the corporation; provided, however, that in no event shall the corporation engage in activities which are not charitable in nature.

ARTICLE II. MEMBERS

Section 1. Membership

There shall be three classes of members of this association. The first class of members shall be known as general members. The second class of members shall be known as student members. The third class of members shall be known as sustaining members.

Section 2. Qualifications of General Members

The class of general members consists of all who are active in or who maintain an interest in the art and/or science of computer applications to music and the objectives of the Association.

Section 3. Qualification of Student Members

The class of student members consist of those bona fide students who are enrolled in a recognized school, college, or university and

participating in or interested in computer applications to music.

#### Section 4. Qualifications of Sustaining Members

The class of sustaining members consists of any person, corporation, or organization making annually a substantial contribution to the Association.

#### Section 5. Voting and Other Rights of Members

a) General members are entitled to all rights and privileges of the Association including the right to vote. All General Members are eligible for nomination to any of the offices. General members will be given member rates on the corporation's publications and other activities.

b) Student members are entitled to participate in membership meetings, and shall be given student member rates on the corporation's publications and other activities. Student members may not vote, hold office, propose a candidate for any office, or serve on committees.

c) Sustaining members are entitled to participate in membership meetings and shall be entitled to all rights and privileges of the Association except the right to vote or to hold any office or to serve on committees.

d) All members are entitled to receive and to contribute to the Association's newsletter. They are further entitled to contribute to and to utilize the Association's public and private computer music-related archives and directories. The Association treats all information submitted to or distributed from these reference banks as being in the public domain, unless specifically directed to do otherwise by the work's author and/or publisher. The Association is not liable for proprietary material exchanged between members and/or the public.

#### Section 6. Annual Meeting of the Membership

The annual meeting of the members of this corporation shall be held at such place and during the last quarter of each calendar year or at such other time as may be determined by a resolution of the Board of Trustees. Written notice of the time and place of the annual meeting shall be delivered personally to each member or sent to each member by mail or other form of written communication, charges prepaid, addressed to his or her at the appropriate address as it is shown on the records of the corporation, or if it is not shown on the records or is not readily ascertainable, at the place where the meetings of the members are regularly held. Any notice shall be mailed or delivered at least fifteen (15) days before the date of the meeting.

#### Section 7. Special Meetings of the Membership

Special meetings of the members of the corporation for any purpose or purposes may be called at any time by the president of the Corporation or by two members of the Board of Directors.

Written notice of the time and place of special meetings of the members shall be given in the same manner as for the annual meeting of

the members.

Actions taken at any meeting of the members of this corporation, however called and noticed shall be as valid as though taken at a meeting after regular call or notice if a quorum is present, and if either before or after the meeting, each of the voting members not present signs a written waiver of notice, or a consent to holding this meeting, or an approval of the minutes of the meeting. All the waivers, consents, or approvals shall be filed with the corporate records or be made a part of the minutes of the meeting.

#### Section 8. Quorum

A quorum for any meeting of the members shall be one-third of the general members.

#### Section 9. Action by Members

The affirmative vote of a majority of the members represented and voting at a meeting shall be necessary for the adoption of a motion or resolution, and for the election of Directors, and for the determination of all questions and business which may come before the meeting, unless otherwise required under the articles of incorporation or the bylaws of this corporation.

#### Section 10. Liabilities of Members

No person who is now, or who later becomes, a member of this corporation shall be personally liable to its creditors for any indebtedness or liability and any and all creditors of this corporation shall look only to the assets of this corporation for payment.

#### Section 11. Membership Certificates

The Board of Directors may issue certificates of membership for each class of members. No member shall be in more than one class of membership.

### ARTICLE III. DUES

#### Section 1.

The annual dues of the classes of membership shall be determined by resolution of the Board of Directors approved by not less than two-thirds of the members of the Board.

#### Section 2.

Annual dues shall be payable in advance and shall become due and payable on the 31st day of December of each and every year. A bill for such annual dues shall be delivered to each member by mail or other form of written communication.

### Section 3.

When a member's dues are one month in arrears he or she shall no longer be considered in good standing. When a member's dues are one year in arrears his or her membership shall be terminated.

## ARTICLE IV. BOARD OF DIRECTORS

### Section 1. Powers and Duties

The Board of directors shall have general power to control and manage the affairs and property of the corporation, and shall have full power, by majority vote, to adopt rules and regulations governing the action of the Board of Directors and payment of the moneys received by the corporation from time to time; provided, however, that the fundamental and basic purposes of the corporation, as expressed in the articles of incorporation, shall not thereby be amended or changed, and provided further, that the Board of Directors shall not permit any part of the net earnings or capital of the corporation to inure to the benefit of any private individual.

### Section 2. Number, Qualifications, Election and Term of Office

The number of Directors shall be not less than three(3), the number to be fixed from time to time by resolution of the Board of Directors adopted by a majority of the entire Board as defined in these bylaws and constitution.

The initial Directors shall be the three persons named in the Articles of Incorporation dated \_\_\_\_\_. At the first meeting of the incorporating Board of Directors, the incorporating Directors shall elect a full Board of Directors. No Director shall serve more than two successive one-year terms. Thereafter, such number of Directors shall be elected each year at the annual meeting of the Board by a majority of the Directors then in office, and the general members, and each Director so elected shall continue in office until a successor shall have been elected and qualified. Any Director may be removed with or without cause, at the annual or a special meeting called for that purpose, by a majority of all Directors. Cause will include three unexcused absences from three successive meetings of the Board of Directors.

### Section 3. Vacancies

Any vacancy in the Board of Directors arising at any time and from any cause, including the authorization of an increase in the number of Directors, may be filled at any meeting of the Board of Directors by a majority of the remaining directors. Each director so elected shall hold office until the election at the annual meeting of the Board of Directors and the qualification of his or her successor.

### Section 4. Annual Meeting of the Board of Directors; Notice.

The annual meeting of the Board of Directors shall be held at the

principal office of the Association or at such other place as the Board of Directors shall designate on such day in the month of November or such other time as the Board of Directors shall designate. Notice of the time and place of such annual meeting shall be given by the secretary of the corporation by mailing a copy thereof or delivering the same to each director not less than five (5) or more than thirty (30) days before such annual meeting.

### Section 5. Special Meetings of the Board of Directors; Notice.

Special meetings of the Board of Directors may be held upon the call of the president or any two directors at the principal office of the corporation or at such other place as may be designated in the notice of such meeting. Notice of the time, place, and purpose of any special meeting of the Board of Directors shall be given by mailing a copy thereof or delivering the same to each director at least five (5) days before such meeting.

### Section 6. Regular Meetings of the Board of Directors; Notice.

Regular meetings of Board of Directors shall be held at such time and place as the Board of Directors shall designate and notice of such regular meetings need not be given.

### Section 7. Quorum; Adjournments of Meetings.

At all meetings of the Board of Directors, a majority of the Directors in office shall constitute a quorum for the transaction of business. In the absence of a quorum, a majority of the Directors present may, without giving notice other than by announcement at the meeting, adjourn the meeting from time to time until quorum is obtained. If, due to geographical dispersion of the Directors, a quorum is not attained and the annual or special meeting remains adjourned for more than two (2) weeks, a conference call or conference-by-mail will be arranged to conduct the business of that meeting.

### Section 8. Compensation

No Director or officer of the Association shall receive, directly or indirectly, any salary, compensation, or emolument therefrom for his or her service as Director or officer; but the Board may authorize reimbursement of reasonable expenses incurred by Board members in connection with attendance at the annual meeting.

### Section 9. Resignation

Any Director may resign at any time by giving written notice to the president of the Association. Such resignation shall take effect at any time specified therein and, unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective.

## ARTICLE V. OFFICERS

## Section 1. Number and Qualifications

The officers of the corporation shall consist of a president, a vice president, a secretary, a treasurer, and such other officers as the Board of Directors may from time to time appoint. Any two or more offices may be held by the same person, except for the offices of president and secretary. Officers may or may not be members of the Board of Directors.

## Section 2. Election and Term of Office

The officers of the corporation shall be elected annually by the Board of Directors at the regular annual meeting immediately following the election of Directors. If the election of officers shall not be held at such meeting, such election of officers shall be held as soon thereafter as may be practical. The vacancies may be filled or new officer created and filled at any meeting of the Board of Directors. Each officer shall hold office until his or her successor shall have been duly elected and qualified.

## Section 3. Removal

Any officer of the corporation may be removed by a vote of the majority of the Board of Directors then in office.

## Section 4. President

The president shall be the principal executive officer of the corporation and shall, in general, supervise and conduct the activities and operations of the corporation. He or she shall have general supervision of the affairs of the corporation, and shall keep the Board of Directors fully informed and shall freely consult with them concerning the activities of the corporation. He or she may sign, with the secretary or any other proper officer of the corporation authorized by the Board of Directors, in the name of the corporation, all contracts and documents authorized either generally or specifically by the Board. He or she shall preside at all meetings of the Board of Directors and of the International Computer Music Association, Inc. He or she shall perform such other duties as shall from time to time be assigned to him or her by the Board of Directors.

## Section 5. Vice President

The vice president shall have such powers and duties as may be assigned to him or her by the president or the Board of Directors. In the absence of the president, the vice president shall, in general, perform the duties of the president.

## Section 6. Secretary

The secretary shall act as secretary of all the meetings of the Board of Directors, and shall keep the minutes of all such meetings in books

proposed for that purpose. In the absence of the secretary, a person shall be appointed to act as secretary of meeting. He or she shall attend to the giving and serving of all notices of the corporation. He or she shall perform all other duties customarily incident to the office of secretary, subject to control of the Board of Directors, and shall perform such additional duties as shall from time to time be assigned to him or her by the Board of Directors.

## Section 7. Treasurer

The treasurer shall have custody of all funds of the corporation which may come into his or her hands. He or she shall keep or cause to be kept full and accurate accounts of receipts and disbursements of the corporation, and shall deposit all moneys and other valuable effects of the corporation in the name and to the credit of the corporation in such banks or depositories as the Board of Directors may designate. Whenever required by the Board of Directors, he or she shall render a statement of his or her accounts. The treasurer shall at all reasonable times exhibit the corporate books and accounts to any officer or Director of the corporation and shall perform all duties customarily incident to the position of treasurer, subject to the control of the Board of Directors, and shall, when required, give security for the faithful performance of his or her duties as the Board of Directors may determine. The treasurer shall be required to prepare the annual accounting statement which must be presented to the Board of Directors at their annual meeting.

## ARTICLE VI. COMMITTEES

### Section 1. Executive Committees of Directors

The Board of Directors, by resolution adopted at a duly noticed meeting of the Board of Directors in office, may designate an executive committee, which shall consist of two or more Directors, and to the extent provided in said resolution, shall have and exercise the authority of the Board of Directors in the management of the corporation.

### Section 2. Non-executive Committees

Non-executive committees not having exercised the authority of the Board of Directors in the management of the corporation may be designated by a resolution adopted by the Directors present at a meeting at which a quorum is present. Except as otherwise provided in such resolution, members of each such committee shall be appointed by the president of the corporation, and one of those persons appointed shall be appointed as chairperson for each such committee. Any member of any committee may be removed by the person or persons authorized to appoint such member whenever in their judgment the best interest of the corporation shall be served by such removal. Chairpersons of non-executive committees will be required to report, at any time, to any requesting officer or Board member, their committee's activities and progress.

### Section 3. Term of Office

Each member of a committee shall continue as such until his or her successor is appointed, unless the committee shall be sooner terminated, or unless such member be removed from such committee, or unless such member shall cease to qualify as a member thereof.

### Section 4. Vacancies

Vacancies in the membership of any committee may be filled by appointments made in the same manner as provided in the case of the original appointment.

### Section 5. Quorum

Unless otherwise provided in the resolution of the Board of Directors designating a committee, a majority of the whole committee shall constitute a quorum and the act of a majority present shall be the act of the committee.

### Section 6. Rules

Each committee may adopt rules for its own government, so long as such rules are not inconsistent with these bylaws or with rules adopted by the Board of Directors.

## ARTICLE VII. CONTRACTS, CHECKS, DEPOSITS AND FUNDS

### Section 1. Contracts

The Board of Directors may authorize any officer or officers of the corporation, in addition to the officers so authorized by these bylaws, to enter into any contract or execute and deliver any instrument in the name of and on behalf of the corporation, such authority must be in writing and may be general or confined to specific instances.

### Section 2. Checks, Drafts, etc.

All checks, drafts or other orders for the payment of money, notes or other evidence of indebtedness issued in the name of the corporation shall be signed by such officer or officers of the corporation and in such manner as shall from time to time be determined by written resolution of the Board of Directors. In the absence of such determination by the Board of Directors, such instruments shall be signed by the treasurer and countersigned by the president of the corporation.

### Section 3. Deposits

All funds of the corporation shall be deposited from time to time to the credit of the corporation in such banks, trust companies or other

depositories as the Board of Directors may select.

### Section 4. Gifts

The Board of Directors may accept on behalf of the corporation any contribution, gift, bequest or devise for the general purposes or for any special purpose of the corporation.

## ARTICLE VIII. OFFICE AND BOOKS

### Section 1. Office

The office of the corporation shall be located at such place as the Board of Directors may from time to time determine.

### Section 2. Books

There shall be kept at the office of the corporation correct books of account of the activities and transactions of the corporation, including a minute book which shall contain a copy of the articles of incorporation, a copy of these bylaws, and all minutes of the Board of Directors.

## ARTICLE IX. CORPORATE SEAL

The seal of the corporation shall be circular in form and shall bear the name of the corporation and words and figures showing that it was incorporated in the state of California in the year 1980.

## ARTICLE X. FISCAL YEAR

The fiscal year shall begin July 1, and shall end June 30.

## ARTICLE XI. AMENDMENTS

These bylaws may be amended by the affirmative vote of two-thirds of the Directors in office at any meeting of the Board of Directors.