Election results announced

A tabulation of the votes cast in the Computer Society's recent election has been released in accordance with the procedure established by the board. A total of 6469 ballots were returned to IEEE headquarters; the votes received and the candidates elected, indicated by an asterisk, are listed below in alphabetical order:

President
*Oscar N. Garcia 5849

First Vice-President
*Taylor L. Booth 3346
King-sun Fu 2872

Second Vice-President
C. V. Ramamoorthy 2809
*Roy L. Russo 3411

Governing Board
*Dennis Allison 3644
*Barry W. Boehm 3946
Jon T. Butler 2748
J. T. Cain 2796
Bill D. Carroll 2888
Y. T. Chien 2776
Paul L. Hazan 2753
*Samir S. Hussain 2915
David Jacobsohn 2650
*Stephen F. Lundstrom 3014
*John F. Meyer 3031
*David Pessol 3277
Arthur V. Pohm 2671
*James G. Rudolph 3264
James N. Snyder 2841
*Barbara R. Sternick 3406
*Robert G. Stewart 3987
*Stanley Winkler 3272

Richard E. Merwin Memorial Fund Committee formed

As announced in the September Computer, a memorial fund has been established in the name of former Computer Society President Dick Merwin to support research and education in the fields of computer science and engineering. Contributions are being steadily received for the fund, according to Dick B. Simmons of Texas A & M, chairman of the Richard E. Merwin Memorial Fund Committee. Recommendations, according to Simmons, are being developed by the committee regarding an appropriate memorial project.

Other members of the committee include Theodore H. Bonn of Sperry Research, Stanley Winkler of IBM, Charles R. Vick of Systems Control Technology, and Harry Hayman, Computer Society executive secretary.

Those who wish to contribute to the fund may address their checks to the IEEE Foundation, specifying the Richard E. Merwin Memorial Fund, c/o the IEEE at 345 East 47th Street, New York, NY 10017.

E. K. Gannett named deputy general manager of IEEE

Eric Herz, IEEE executive director and general manager, recently announced the appointment of Elwood K. (Woody) Gannett to the newly created post of deputy general manager. The appointment takes effect December 1, 1981.

Gannett, a member of the IEEE staff for the past 35 years, is currently IEEE staff director for Publishing Services, and responsible for the production of 40 journals, the IEEE Press book program, and the indexing of all IEEE technical literature.

ACM plans employment register at Indianapolis conference

The Tenth Annual Computer Science Employment Register will be conducted at ACM's Indianapolis Computer Science Conference February 8-11, 1982. This register aids in matching computer scientists and data processing specialists with employers. Applicants complete a form giving identifying information, education, publications, experience, interests, references, and position and salary desired. Employers complete a similar form for available positions.

In Indianapolis, applicants will be able to contact many employers in a short time. Likewise, an employer may contact experienced applicants and student applicants from many colleges and universities. The register will operate from 6 p.m. to 9 p.m. on Monday, February 8; 10:30 a.m. to 8 p.m., February 9-10; and 11 a.m. to 3 p.m., February 11. After the conference, copies of the register are placed in libraries, computer science departments, and college and university placement offices.

Registrations must be filed on one of three official forms: (1) applicant, (2) academic employer, and (3) business, industry, and government employer. These forms may be obtained from Orrin E. Taulbee, ACM Computer Science Employment Register, Department of Computer Science, University of Pittsburgh, Pittsburgh, PA 15260. Please specify which of the three forms are desired, and return completed forms to Taulbee by January 8, 1982.

The completed forms will be compiled to form four books of listings: student applicant, experienced applicant, academic employer, and business, industry, and government employer. Multiple copies of these books will be available at the conference for review. Personal copies will be available if ordered and paid for prior to January 8, 1982.
Better man-machine interfaces needed, Eurographics conference chairman says

 Ware Myers
 Computer staff

 "Much remains to be done to make computer graphics an ideal tool for the designer," was conference chairman Jakob Vlietstra's closing statement in his invited lecture opening Eurographics 81 on September 9 at the Technical University of Darmstadt in the Federal Republic of Germany. This need "proves the value of events such as Eurographics," he added.

 Attendance doubled. In its second outing, Eurographics 81 approximately doubled its 1980 Geneva attendance. This year's figures: 650 conference registrants, 1200 exhibit-only visitors, and 51 exhibitors. These numbers compare favorably with those of Siggraph 77 in San Jose, California—750 registrants and 44 exhibitors, figures that have been roughly doubling each year since.

 "This trend may not always be true with us," Jose L. Encarnacao, chairman of the Eurographics Association and conference program chairman, told about two dozen press representatives, "but I am almost sure it will be valid for next year."

 "Because the next conference will be held in an English-speaking country [Manchester, England, Sept. 8-10, 1982]," said E. A. Warman, next year's program chairman, "I expect that we will attract a higher proportion of English-speaking people from the United States." About one-third of this year's conference attendees were from non-German-speaking countries (and the conference language itself was English).

 Thereafter, as the conference moves to other European countries, perhaps farther from the industrial centers and with fewer English-speaking residents, it is possible that the doubling trend may be broken.

 The European computer graphics market itself is growing at a rate comparable to that in the United States. In West Germany, for example, it is projected to grow at 34 percent per year over the next five years, according to a study by Diebold Deutschland GmbH, which also served as the exhibits and conference organizer.

 Man-machine interface. In spite of the positive results obtained by using computer graphics in CAD applications, "the input of design data remains a tedious and time-consuming activity," Vlietstra continued. He described the use of computer graphics in developing a telecommunications system and a cathode ray tube at Philips Gloeilampenfabrieken, The Netherlands. Based on this experience, he reported four positive results: productivity was increased considerably, development time was reduced drastically (in television tubes, for example, from 18 months to 5 months), material was saved, and quality was greatly improved.

 On the other hand, manual interfaces to graphics systems are unsatisfactory in at least four respects, Vlietstra continued. The screens cannot contain enough information. Facilities for really designing, rather than edging or correcting, do not yet exist. Menu handling is artificial and designers feel it is unfriendly. And finally, the ergonomics of display equipment, involving low room illumination, screen flicker, etc., are still poor.

 Where in the past there was considerable personal contact between the employees in drawing rooms and laboratories, Vlietstra remembered, "this contact is in great danger of being lost in the cold and impersonal atmosphere of computer equipment." If this were to happen, it might well have an untoward effect on the output of designers.

 "The designer should be at the center of the development of computer-aided-design and computer-graphics procedures," Vlietstra emphasized. At present only a limited part of the designers' intelligence and talent is incorporated in this procedural software—CAD still only complements the processes performed by the designer. The human being makes the ultimate decisions and the machine does the routine computing work.

 The danger is, as CAD software embraces more processes, whether "the designer can still handle the entire design process in such a comprehensive manner that he remains more clever than the machine and thus continues to make the ultimate decisions," he concluded. If the software gets ahead of the designers, then they will no longer be in a position to improve the design process.
Proposed ANSI standards available for public review

The American National Standards Committee is conducting a four-month public review prior to voting on a proposed new COBOL standard and a proposed business forms standard.

The COBOL proposal revises X3.23-1974 to improve language capabilities and existing specifications. Developed by Technical Committee X3J4, the proposed standard specifies eleven modules—eight required, three optional—and three subsets. The required modules are nucleus, sequential I/O, relative I/O, indexed I/O, interprogram communication, segmentation, sort/merge, and source text manipulation. The optional modules are debug, report writer, and communications.

The second proposal, developed by Technical Committee X3B9, is intended as a guide for designers of machines that utilize continuous business forms. It covers common form widths and depths, standards for sprocket feed holes and margins, and other basic tolerances.

Both proposed standards will be available for public review and comment until February 13, 1982. Copies may be obtained from the X3 Secretariat at $25 for the COBOL standard, dpANS X3.23-198X, and $7.50 for the continuous business forms standard, BSR X3.96-198X. Orders with mailing labels included can be sent to X3 Secretariat, CBEMA, 1828 L Street, N. W., Suite 1200, Washington DC 20036.

Journal on computer security to debut

The first issue of Computers & Security, a new international journal devoted to the study of the financial and technical aspects of computer security, will appear in January 1982. The publication's target audience includes business and industrial managers, accountants, auditors, and insurance company executives, as well as computer specialists. Harold Joseph Highland, Distinguished Professor Emeritus, State University of New York, is editor-in-chief.

Interested professionals may request (on official letterhead) a free copy of the first issue from Han van Eybergen, Journal Manager, North-Holland Publishing Company, P.O. Box 103, 1000 AC Amsterdam, The Netherlands.

Structured Analysis, Design and Testing of Computer Systems: February 1-5, Orlando, Florida; $760.
Designing and Operating Distributed Information Systems: February 1-5, Washington, DC; $760.
Microcomputer Applications Workshop: February 1-5, Orlando, Florida; $760.
Data Bases for Minicomputers and Networks: February 8-12, Washington, DC; $760.
Director, Continuing Engineering Education, George Washington University, Washington, DC 20052; (202) 676-6106.

Rotor Dynamics Engineering: February 15-17, Daytona Beach, Florida; $645.
Applied Vibration Engineering: February 15-17, Daytona Beach, Florida; $645.
Applications of Minicomputers and Microcomputers in Industrial and Laboratory Environments: February 15-17, Daytona Beach, Florida; $645.
Rae D'Amelio, Program Coordinator, Union College, Office of Continuing and Graduate Studies, Wells House, 1 Union Ave., Schenectady, NY 12308; (518) 370-6288.

Fundamentals of High-Resolution Lithography: February 3, San Francisco; $175.
Concepts and Technologies for Integrated Sensors: February 8, San Francisco; $175.
Integrated Circuits for Speech Processing: February 9, San Francisco; $175.

Continuing Education in Engineering, University of California Extension, 2223 Fulton St., Berkeley, CA 94720; (415) 642-4151.

Structured Requirements Definition: January 12-15, Toronto; January 19-22, Kansas City, Missouri; $375.
Structures Systems Design/Structured Requirements Definition: January 18-22, Houston; $675.

Structured Systems Design: January 26-29, Chicago; $575.

Practical CAD/CAM Considerations: February 17-19, Los Angeles; $600.
Marc Rosenberg, UCLA, University Extension, 6266 Boelter Hall, UCLA, Los Angeles, CA 90024; (213) 825-1047.

Design of Fault-Tolerant Computing: January 11-13, Madison, Wisconsin; $575.
Avi Vaidya, University of Wisconsin-Extension, Room 741, 432 N. Lake St., Madison, WI 53706; (608) 262-8592.

Data Communications for Minicomputer Users: February 3, Houston; February 9, Oklahoma City; February 10, St. Louis, Missouri; February 18, Denver; February 25 and 26, Scottsdale, Arizona; March 4, Los Angeles; March 10, San Francisco; March 18, New York; $95.

Seminar Administrator, Micom Systems, Inc., 20151 Nordhoff Ave., Chatsworth, CA 91311; (213) 998-8844.

Capacity Planning and Modeling Workshop: December 17-18, Sunnyvale, California; $495.
MV$ Systems Management Workshop: December 14-16, Sunnyvale, California; $795.

Sondra Schwartz, Boole & Babbage, Inc., 510 Oakmead Parkway, Sunnyvale, CA 94086; (800) 538-1872 (toll-free), (408) 735-9550 (in California).

Information-Oriented Graphic Design in Computer Graphics: December 14-15, Washington DC; $295 (NCGA members) and $325 (non-members).

Nancy Messer, NCGA Seminars, 2033 M St., N.W., Suite 300, Washington, DC 20036; (202) 466-4102.

Network Protocols: December 16-18, Baltimore, Maryland; $595.

American Institute for Professional Education, Carnegie Building, Madison, NJ 07940; (201) 377-7400.


Phase One Systems, 7700 Edgewater Dr., Suite 830, Oakland, CA 94621; (415) 562-8085.