IEEE Computer Society
Constitutional Amendment

Approval of these proposed constitutional amendments requires yes votes by 2/3 of the members voting.

The Board of Governors recommends the following amendments to the Constitution of the Computer Society. These amendments would

1. establish the position of president-elect;
2. allow for election of the secretary; and
3. provide for minor cleanup of the wording.

The major change proposed here is to establish the position of president-elect. This new position would make the job of president more manageable by providing an Executive Committee member whom the president could assign as needed. This relief might increase the number of volunteers who would be willing to stand for election and perhaps increase the number of choices for the top position. Such a position would make it possible to consider candidates with impressive credentials but with little society experience. If approved by the members, the 1986 ballot would provide for election of the society’s first president-elect, who would take office as president-elect in 1987 and as president in 1988.

Eliminating the existing provision for appointment of the secretary allows the board to elect the secretary, thus increasing direct board input to the Executive Committee.

Following is the text of the proposed amendments. Deletions are in brackets [ ]; additions are in italics.

Proposed Revisions to the Computer Society Constitution

Article III
Section 1. The Society shall be governed by the Board. All members of the Board must be members of the Society. The franchised members of the Board shall be the Society president, president-elect, first and second vice presidents, the junior past-president, and twenty elected members of the Board. Ex officio members of the Board may be designated in the bylaws. The ex officio members of the Board shall have no vote unless they hold one as a franchised member of the Board.

Article IV.
Section 1. The elected officers of the Society shall be the president, the president-elect, [and] the first and second vice presidents, and the secretary. Other officers may be provided for in the bylaws. The [president,] president-elect and first and second vice presidents of the Society shall be elected annually. The election procedures shall be as specified in the bylaws. These elected officers must hold member grades or higher in the IEEE and have been Society members for the preceding three years. When taking office as president, president-elect, or first or second vice president, such officers of the Society vacate their elected board positions if they currently hold one. The president shall with the advice and consent of the Board appoint all non-elected officers. These appointed officers must hold the member grade or higher in the Society.

Section 2. The president, under the direction of the Board, shall be responsible for general supervision of the affairs of the society. [He] The president shall have such other powers and perform such other duties as may be provided in the Society bylaws or which may be delegated [to him] by the Board.

Section 3. The president-elect shall perform such duties as specified in the bylaws or assigned by the president or the Board. The president-elect shall become president the following year.

NOTE: All remaining sections of Article IV will be renumbered, and the new numbers are used herein.

Section 4. The first vice president shall act for the president in [his] the president’s absence or incapacity and shall perform such duties as specified in the bylaws or assigned by the president.

Section 6. The secretary [, an appointed officer,] is responsible for keeping the required records of the Society and submitting reports to the IEEE and others as required and shall perform such other duties as required in the bylaws or assigned by the president.
Computer Society Officer and Governing Board Nominees

Below and on the following pages are the position statements and biographies of the Computer Society's candidates for president, first and second vice-presidents, and Governing Board. Within each category, candidates are listed in alphabetical order.

Election of officers to one-year terms and board members to two-year terms, each beginning January 1, 1986, will be by vote of the membership as specified in the bylaws (see Computer, January 1981, pp. 110-111). Ballots, which will be mailed to all society members about September 6, must be received at IEEE Headquarters by October 21, 1985. Election results will be announced in the December issue of Computer.

The opinions expressed in the following statements are those of the individual candidates and do not necessarily reflect society positions or policies.

Nominee for President

Roy L. Russo

Position statement. We are fortunate to be at the heart of a dynamic industry that is making a lasting and positive impact on society. We are also fortunate to have a growing and supportive membership, enthusiastic volunteers, and a dedicated and loyal staff. These boundary conditions provide substantial responsibility and unique opportunities for service to our members and our profession. My plan for action involves several elements.

First, we must emphasize direct member benefits by expanding our successful programs and adding new, innovative ones. Our publications provide our largest member service. While they are, by and large, well received, we must continue to seek improvement. In our flagship magazine, Computer, we should publish more invited papers based on industrial practice and experience. Leading-edge, non-English articles, particularly Japanese articles, should be translated and published. We must hold subscription rates down by actively seeking new subscribers.

Conferences and tutorials constitute our second largest service area; we plan to sponsor new conferences in areas such as standards. Our tutorials program will be made available to more members by holding tutorials in more cities, and by holding weekend tutorials. A "career enhancement" program that would employ practical techniques such as audio cassettes should be initiated.

Second, we must strengthen our relationships with IEEE entities and the ACM. Our cosponsorship of conferences with other IEEE societies, regions, and sections has been most successful; to fulfill our role within the IEEE, we must continue to seek opportunities to serve IEEE members. Our recent efforts to enhance cooperation with the ACM have led to a corporate entity for computer sciences curriculum accreditation and a new major conference—the Fall Joint Computer Conference. We should pursue additional programs of enhanced cooperation with ACM, e.g., reduced cross-subscription rates for publications.

Third, we must become a more international society. We will soon open an office in Europe to better serve our European members; we should open other offices outside the US. We must expand cooperative efforts with European and Japanese national societies; this expansion should include tutorial programs with many of the tutorials given in the vernacular. Our non-US members should have more of a voice and role in society activities.

Finally, our volunteers are the backbone of the society. We must provide more support, encouragement, and recognition to them, and we should increase their recruitment.

I will work towards these goals, and I welcome your support and ideas.

Biography. Currently vice president for conferences and tutorials, Russo has served the society in various leadership positions for over ten years. He founded IEEE Design & Test of Computers magazine and served as its first editor-in-chief (1983-85). As vice president for technical activities (1982-83), he initiated the Robotics, Personal Computing, Computer Languages, and Computers in Education Technical Committees, and introduced the concept of a vice president for standards (now adopted). As treasurer (1981), he developed a uniform accounting system with the IEEE and initiated the Computer Services Advisory Committee. He has served as Executive Committee member (1981-85), Governing Board member (1979-1985), chairman of the Design Automation Technical Committee (1976-77), and as a member of numerous other committees and boards.

An IEEE fellow, he is a member of ACM,Eta Kappa Nu, and Sigma Xi. Russo is manager of the Design Automation Laboratory at the IBM T.J. Watson Research Center. Previously, he was a senior engineer and research staff member at IBM, a consulting professor at Stanford, and an assistant professor at Penn State.

Russo earned the PhD degree (EE) from Pennsylvania State University. He received an IEEE Centennial Medal, the L. A. Doggett Award for outstanding writing in electrical engineering from Penn State, and an Outstanding Contribution Award and Invention Achievement Award from IBM.

Nominees for First Vice President

J. T. (Tom) Cain

Position statement. The Computer Society is a fast-growing organization whose membership exceeded 85,000 in December 1984. For the society to continue to grow and to maintain its position as the premier professional society in the field, I believe we must place increased emphasis on services to the membership.

In the publications area our transactions, magazines, and CS Press publications provide excellent coverage of archival, state-of-the-art, and applications-oriented material. New publications should continuously be considered, but they must be evaluated for their use to the membership, economic viability, and impact on existing publications.

Extremely important member services are the society efforts in the continuing education or more broadly career/professional development area. The society currently provides services spanning chapter tutorials, conference tutorials, tutorial weeks, CS Press tutorials, and conference and workshop sessions. This year the Professional Development Committee was established under the Conferences and Tutorials Board to explore other services in this area. I believe this committee should be expanded, with formal representation from each of the boards, and be charged with coordinating society-wide activities.

Much has been discussed about increased cooperation/merger between the society and ACM. Merger for the sake of merger is counterproductive. However, there are examples, such as CSAB, where cooperation has been beneficial to the membership. I believe we should continue to seek areas where increased cooperation not only with the ACM but also with other IEEE societies and boards benefits our membership.

As vice president, I would work to increase our efforts in these areas.


Cain is an associate professor of electrical engineering at the University of Pittsburgh. He has industrial experience with Bell Laboratories, Bell of Pennsylvania, and Westinghouse Electric.
Nominees for Second Vice President

Charles R. Vick

Position statement. I believe the interests of the membership can best be served by bringing to bear the same business and management skills that are required for survival in the for-profit sector. I have borne this in mind over the past several years, during which I have served the Computer Society in a variety of positions. As VP of conferences and tutorials I worked to provide a broad spectrum of cost-effective conferences aimed at keeping our members up to date technically. In addition, I led the effort to expand our tutorials program even further in 1984. As VP for area activities, I am working to provide more autonomy to chapters, as well as greater opportunity for chapters to tap the creative resources of local members.

In some ways, chapters pose the most difficult challenge of all society activities. They require the greatest investment of human energy per member affected. And yet they offer the greatest opportunity for ongoing, direct contact with members at the grassroots level. That is why my highest priority this year is the task of putting area and chapter activities on a sound financial footing.

I fully support a controlled expansion of our publications. Finally, I support any joint Computer Society-ACM effort that makes sense—such as the accreditation of computer science programs—and I will support future organizational ties with ACM if those ties are approved by the membership.

Biography. Vick has served the Computer Society on the Board of Governors, as vice president for conferences and tutorials, second vice president, and vice president for area activities. He is currently on the Internetworking Liaison Committee and is professor and department head of the Computer Science and Engineering Department at Auburn University. Previously he was vice president and technical director of Systems Control, Inc., and director of the Data Processing Directorate of the Ballistic Missile Defense Advanced Technology Center.

Vick has served on numerous Computer Society conference boards and was the founder of the International Conference on distributed Computing Systems. A fellow of the IEEE, he is currently serving his third term on the IEEE Fellow Committee. Vick received his PhD in electrical engineering at Auburn University.

James H. Aylor

Position statement. The Computer Society provides the leadership for practitioners in a highly dynamic technology. It must continue to be prepared to react to advances as it has in the past. Past success is due to the support given to its volunteers and services supplied to its members. As an officer of the society, I will

- Examine programs and services as to their benefit to the membership. The cost of membership services should be as low as possible. This can be accomplished by maintaining the financial vitality of other activities, such as conferences and nonperiodical publications.
- Strive to increase volunteer participation, especially from the industrial sector, in leadership roles within the society. One method of accomplishing this is through increased interaction with the conference committees.
- Encourage increased cooperation with other societies within IEEE and with ACM. A more active role in generating jointly sponsored activities with member societies of our parent organization should be promoted.
- Encourage programs and services that promote technology transfer to the users of computers. The Computer Society must continue to play a leadership role in guiding the use of computers in society.

I would appreciate your support.

Biography. Aylor has been active in the Computer Society since 1975, when he served as the secretary of the Technical Interest Council, the predecessor of the Technical Activities Board Oppcom. Since that time, he has served in numerous capacities within TAB, including founder and chairman of the Technical Committee on Computing and the Handicapped. He has been a member of the Governing Board since 1983 and has served as a member of the Audit, Computer Services Advisory, Computer Society Press Advisory, and Computer Advisory Committees. He currently is the vice chair of the Conferences and Tutorials Board and a member of the IEEE Press Editorial Board.

A senior member of IEEE, Aylor also belongs to Sigma Xi, Tau Beta Pi, AAAS, and the Rehabilitation Engineering Society of North America. He is an associate professor of electrical engineering and director of the Center for VLSI Fault Tolerance and Testing at the University of Virginia. He has worked for the Federal Systems Division of IBM, where he currently consults. His research interests are in the areas of design automation of digital systems, VLSI systems, fault tolerance and test technology, and microcomputer applications.

John D. Musa

Position statement. Stimulating the international process of creating knowledge and improving its transfer to practice is a major function of the Computer Society. I have vigorously pursued these goals as vice president for publications. I have strongly concentrated on innovation, planning, and uniting and focusing the extraordinary range and depth of talents of volunteers and staff on better meeting your needs.

During my tenure, IEEE Software and IEEE Design & Test were launched. IEEE Expert is scheduled for 1986. We placed strong emphasis on readable, practical, readily applicable articles. We are establishing a permanent Silicon Valley news bureau and are planning more. Circulation and advertising promotion have been greatly increased to provide revenues for further improvement. The Computer Society Press is vigorously expanding its range of products and its marketing efforts to better serve you.

If elected, I will apply these policies and approaches to help improve the entire range of Computer Society service.

Biography. Musa is CS vice president for publications and a member of the Governing Board. He is a member of the editorial boards of IEEE Spectrum, IEEE Proceedings, and IEEE Software. He played an important role in the founding of IEEE Software.

Musa is past chair of the IEEE Technical Committee on Software Engineering: He received a Meritorious Service Award "for innovative leadership... (in) software engineering and for excellence and dedication to the Society's TAB." As chair of the Steering Committee of the International Congress on Software Engineering, he played a major role in fostering the international outlook of these conferences.

As vice chair of the Technical Activities Board, he initiated a system of reviews to stimulate TC vitality and innovation and promote cross-fertilization of good ideas.

Musa has been deeply involved in cooperative activities with ACM in software engineering, TAB, and publications. He has participated in conferences as publicity chairman, proceedings editor, member of the technical program committee, and session chairman. He is a senior IEEE member.

Musa is supervisor of software quality at AT&T Bell Laboratories. He has managed many different software projects. He has published about 40 papers, in these and other fields, and is preparing a book, Software Reliability (McGraw-Hill).
Nominees for Governing Board (vote for 10)

Harut Barsamian
Position statement. To-day's computer professional faces rapid and broad-scale technology changes presenting ever-growing complexities. The challenge facing the Computer Society is to keep its mission in focus and continue providing high-quality professional services to its constituency, thus helping to prevent the technological obsolescence of its members. As a member of the Governing Board—the society's policy-setting body—I would work toward accomplishment of these tasks. Specific goals would include:

- Evolving the focus of technical conferences toward "verticalized" topics in specific technology areas, e.g., artificial intelligence, supercomputing, silicon compilers.
- Increasing the number and the geographical diversification of tutorials specializing in emerging fields of technology.
- Broadening the scope of cooperation with other professional societies, specifically ACM, to reach wider constituencies, minimize duplications, and combine resources.

I believe the implementation of these plans will further strengthen the leadership role of the Computer Society and enhance the efficiency of its services to computer professionals worldwide.

Biography. Barsamian holds an EE diploma and has completed work on his doctorate in computer science. Currently, he is an independent consultant, as well as a visiting professor of EE and ICS at the University of California, Irvine. Most recently, he was director of technology for Sperry Corp. In that capacity, he was instrumental in organizing and formulating the research programs of MCC. Previously, he held management positions at NCR and the Rand Corp.

Barsamian has been active in professional societies since 1966. At ACM, he was a founder and director of Sigmicro and Sigarch, and a National Lecturer (1976). A senior member of IEEE, Barsamian has served as chair of the Western Area Committee (1978-82) and a member of the Publications Board (1982-84). Presently, he is serving on the West Coast Operations Committee and the ICCAD/ICCD Conferences Steering Committee. In 1982, he chaired the CS Videotape Tutorials Review Committee. The holder of two patents and author of 10 published papers, Barsamian has organized and chaired numerous professional workshops and conferences. He served on the Program Committees of NCC-72 and NCC-75. Barsamian was the guest editor of the May 1979 issue of Computer. He was twice elected an IEEE distinguished visitor.

Barry W. Boehm
Position statement. I think it is time for the Computer Society to take a good, hard look at how software engineering should fit within the overall context of electronic and computer engineering. If elected to the Governing Board, I would like to focus my primary efforts on this issue.

Is software engineering really "engineering"? Do software engineers and hardware engineers do primarily similar or different things? Are the differences increasing or decreasing? Currently, software engineering is in a somewhat ambiguous position relative to other kinds of engineering. This ambiguity is evident when we get into decision situations about how to treat software engineering in such areas as model curricula, professional licensing and certification, standards, or issues of professional responsibility.

IEEE and the Computer Society have a strong background of experience in these issues. The Computer Society is in the best position to relate this experience to issues in software engineering and (with appropriate coordination with ACM) develop and apply a set of guidelines that better deal with professional issues involving software engineering and its relation to the other engineering disciplines. Along with other Governing Board responsibilities, I would propose to initiate such an activity with a focused workshop and follow-up based on its results.

Biography. Boehm is currently chief engineer in TRW's System Development Division in Redondo Beach, California. He formerly headed the Rand Corporation Information Sciences Department. He has also taught at UCLA as adjunct professor and at the University of Southern California as visiting professor. In addition, he participated in the Computer Society Distinguished Visitor Program (1976-77).

Boehm has served on the Computer Society Board of Governors (1982-83). He is program chairman of the Eighth International Conference on Software Engineering (1985) and chaired the Technical Committee on Software Engineering (1980-81). He has also been a member of the editorial boards of Computer, IEEE Software, and IEEE Transactions on Software Engineering.

Boehm earned his BS in mathematics at Harvard in 1957 and his MS and PhD in math at UCLA in 1961 and 1964, respectively.

Taylor L. Booth
Position statement. The Computer Society, as the major technical society in the computer field, must provide opportunities for the professional growth of its members, encourage the advancement of the knowledge base underlying the profession, and represent the members' professional interests at the national and international level. To serve the needs of all members, we must define a clear set of programs that make effective use of the society's financial resources and serve the needs of all members. The conference and publication areas must be reviewed to ensure that our publications and conferences remain up-to-date and respond to our members' interests. The society must continue its close working relationships with ACM and decrease expensive duplication of services and establish standards for our profession. We must seek a larger role in the governance of the IEEE so that the special needs of the Computer Society can be accommodated without compromising the services provided to the other IEEE societies.

Biography. Booth has been active in the Computer Society for a number of years. He is the former editor-in-chief of the IEEE Transactions on Computers. He has been a member of the Board of Governors and has served as secretary, vice president for education and first vice president of the Computer Society. Currently he is the Computer Society representative to the Computing Sciences Accreditation Board and a member of the Compsoc 85 Program Committee. Booth is a fellow of the IEEE and a member of the ACM and ASEE.

Booth is a professor of computer science and engineering and director of the Computer Applications and Research Center at the University of Connecticut. His research interests include the analysis and design of high-performance software and computer systems. He has authored or co-authored three books and numerous papers in the computer area. From 1956 to 1959, he was an analytical engineer with Westinghouse Electric in Baltimore, Maryland.

He received his PhD from the University of Connecticut in 1962. Booth was awarded the Terman Award in 1972, the IEEE Centennial Medal in 1984, and is listed in Who's Who in America.

Paul L. Borrill
Position statement. Having now gained a knowledge of the Computer Society and its operations, I am most concerned with enhancing the quality of service that the members receive, maintaining the leadership role of the society in computer science and engineering, and devoting more space in our magazines to industrial applications. I hope to serve one more term on the Computer Society Board of Governors to firmly establish the ombudsman service to members. (The ombudsman is charged with servicing members' complaints promptly and to their satisfaction.)

I see great improvements that need to be made in the processing and development of industry standards, and a real need to ensure that

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the engineers in the field have more influence on the way standards are developed.

Biography. Borrill was first elected to the Governing Board by membership petition in 1984. He currently serves on the board, as the IEEE CS secretary, and as ombudsman, a position he was responsible for creating. Borrill chairs the IEEE P986 Futurebus Committee and is active in several other computer standardization activities in the USA and internationally.

He is a research fellow in information technology at the Mullard Space Science Laboratory (part of University College London). He was responsible for the design and programming of the dedicated experiment processor for the CHASE (Coronal Helium Abundance Spacelab Experiment) project, a solar UV spectrometer that flew on the Space Shuttle's Spacelab-2 mission July 29th.

Borrill spent several years in the British Merchant Navy as a radio and electronics officer before attending the University of Manchester. He graduated with an honors degree in physics and is now completing a PhD on space research applications of microprocessors—specifically, the CHASE project, computer bus structures, and fault-tolerant multiprocessor systems.

An active consultant on computer system design and architecture, bus systems, and semiconductor device design for a number of European, Scandinavian, and US companies, Borrill has research interests ranging from multiprocessor systems to fault-tolerant operating systems.

Willis K. King

Position statement. The Computer Society continues its impressive growth. Its growth reflects its success in providing its professional constituency the desired services. We should make sure that we continue to do the things that we do well. We should maintain high quality while we expand the scope of our publications, conferences, and tutorials. We should set industrial standards where standards are needed. At the same time, however, we should strengthen the locally delivered services such as the Distinguished Visitors Program, chapter tutorials, and video tutorials—services readily available at nominal or no cost. We should expand these programs not only on the North American continent, but also in Europe, Asia, and Latin America. I also believe that the recently established Computer Science Accreditation Program is vital to the future of our profession. To ensure its success, we should promote the close cooperation between academia and industry to set the standard for computer science education.

Biography. King currently chairs the Distinguished Visitors Program and the Computer Science Accreditation Board Activities Subcommittee. He has served as vice chair of the Area Activities Board (1982-83), member of the Finance Committee (1983), member of the Computer Society Press Advisory Committee (1983), and area chair of the Southwest area (1976-1981). A senior member of the IEEE, he is also a member of ACM, Sigma Xi and Phi Kappa Phi. King currently chairs the Department of Computer Science, University of Houston-University Park. He received a Diplom Ingenieur Degree in electrical engineering from the Technical University of Darmstadt, West Germany, in 1963 and a PhD degree from the University of Pennsylvania in 1969.

Glen G. Langdon, Jr.

Position statement. My Governing Board term has been eye-opening, but I'm beginning to learn the system. We need a more professional approach to our key activities. Most members of the Computer Society are interested in its educational value—the excellence of the publications, tutorials, and conferences. I believe in a strong Governing Board with policies that support this high level of professionalism. We especially need more respect for the many unpaid volunteers. We don't get dedication and quality by bureaucratically ignoring mistakes that should be corrected, "fixing" something that works well, placing dollars above increased professional ties with the ACM, or tactlessly micromanaging volunteers. The paid staff has been increasing and along with it, a tendency to take over volunteer responsibilities. We must sustain the interest of our valuable volunteer-doers by ensuring that the rewards for making contributions are not overshadowed by hassles with bureaucratic minds and bean counters.

Biography. Langdon is a senior member of the IEEE and has been a member of the Computer Society since 1963. He is chair of Curricula Development for the Educational Activities Board.

He is past program chair and currently general chair for Compcon Spring in San Francisco. He was a member of the Computer Standards Committee, and in 1982 was secretary. He belongs to the Finance Committee and the Publications Board as its Finance chair. He has been guest editor of the IEEE Transactions on Computers.

With IBM since 1963, Langdon knows computer design and architecture, mapping algorithms to VLSI, error detection, and data compression systems. At the University of Sao Paulo (1971-72), Langdon's students designed and built Brazil's first digital computer. An experienced part-time instructor, Langdon wrote three books: Logic Design, a Brazilian text (coauthor), and Computer Design.

Langdon received the BSEE from Washington State University, the MSEE from the University of Pittsburgh, and the PhD in EE from Syracuse University. He has received several IBM Awards, including an Outstanding Innovation Award, a Resident Study Fellowship, and has 10 patents in digital design and compression systems. He also belongs to ACM, Phi Kappa Phi, Phi Eta Sigma, Tau Beta Pi, and Sigma Xi.

Duncan H. Lawrie

Position statement. Technical obsolescence threatens all of us in the computer business. I believe that our conferences and tutorials play a crucial role in keeping up to date, not just in our own specialties, but in all areas of computer science and technology. While I would work to promote all areas of interest to the Computer Society, I would like especially to work toward improving the selection and quality of our conferences and tutorials. I have served both as a program chairman and general chairman of conferences and as chairman for conferences on the Conferences and Tutorials Board, so I believe I have the necessary background for working in this area. I believe we can do more to attract more timely and relevant tutorials and that we should encourage more innovative formats for our conferences and workshops.

Biography. Lawrie served as chair for conferences of the Conferences and Tutorials Board, as general chair of the Conference on Distributed Computing Systems, and as program cochair of the International Conference on Parallel Processing. He has also served as editor of Computer Architecture and Systems Department of the Communications of the ACM and recently was a guest editor of IEEE Software magazine. He is currently professor of computer science, professor of electrical and computer engineering, and associate director of the Center for Supercomputing Research and Development at the University of Illinois.

Lawrie received bachelor degrees from DePaul and Purdue Universities, and the MS and PhD from the University of Illinois. He has authored over 30 papers in the area of high-performance computing and received the Most Original Paper Award at the 1980 International Conference on Parallel Processing. He is a member of the ACM and a fellow of the IEEE.
Michael C. Mulder

Position statement. The society has changed in the past ten years, mostly in ways that have benefitted us all. My major concern is that we are no longer small, and thus some of the old methods and policies don’t work as well any more.

We must find and nurture imaginative, strong, and experienced leadership; I hope to contribute these on your behalf. To be specific, I will pursue growth in our technical publications, more industry participation, improvement in the quality of our publications by more extensive peer review, while keeping costs to the membership low. I will pursue a policy of continuing cooperation with our sister societies and a policy of strong society contribution to education in our field. I hope that you will elect me to the Board of Governors, so that I can continue to contribute my time and energies to important issues facing our society.

Biography. Mulder is director of the Applied Research Center and professor of electrical and computer engineering at the University of Portland. He is co-founder of Servio Logic Corporation, where he was vice president of engineering and a member of the board of directors. Previously he was manager of systems development at ESI, Inc., senior research engineer at BPA, and manager of advanced systems processors at Sperry Univac. He is currently editor-in-chief of Computer magazine, a director of CSAB, a past member of the Board of Governors of the IEEE Computer Society, a past vice president, Education Committee chairman, Conferences and Meetings chairman, Audit Committee member; he has led several task forces, and has contributed in other ways to the profession. He was a county planning commissioner and is a member of the OIT State Advisory Board. Mulder received his PhD in electrical engineering from Montana State University (1970), MSNE from University of Washington (1966), BSEE from Oregon State University (1963). He is a registered professional engineer and senior member of the IEEE. He has a large number of publications and is frequently involved with seminars, panel sessions, and working sessions.

Raymon Oberly

Position statement. The Computer Society is a very dynamic organization that is willing to explore new ways of serving its membership. Some examples of its services are the tutorial weeks and technical magazines (e.g., IEEE Design & Test) that provide a way for the professional to keep abreast of the latest technical information in his field. As a Governing Board member, I would like to continue looking for ways to bring the latest technical information to the professional. To save time and costs, I propose that tutorials be given where the members work. I also propose to encourage more workshops in locations outside of the United States to provide technical exchange to more foreign members at less cost to them. These workshops would also provide a way to reduce national barriers and make the Computer Society a truly international organization.

Biography. Oberly, a senior IEEE member, has been involved in numerous Computer Society activities. He has been a member and vice chair of the Test Technology Technical Committee and is now completing his second year as its chair. He has been on the Program and Steering Committees of the International Test Conference since 1977 and has served as program chairman and treasurer. He is currently member of the CS Technical Activities Board, the Conference and Tutorials Board (also its budget review chair), and Division TAB Meetings Committee. He has devoted three years to helping IEEE Design & Test magazine to become successful.

Oberly is currently a senior engineer with 25 years of service at IBM. He regularly runs two internal IBM conferences devoted to electrical testing from components to field. In the past, his responsibilities included development and implementation of component and board testing methodologies, development of various testing and cost trade-off analyses, and qualification and reliability testing of semiconductor components.

Oberly has a BA in physics from Lehigh University and an MS in operations research from Union College. He has published and presented 12 papers on testing and has participated in numerous conferences and workshops as panelist and session chairman.

V. Thomas Rhyme

Position statement. During the last decade, the Computer Society has been characterized by growth in its membership and diversification in the technical interests of its members. If given an opportunity to continue as a member of the board, I believe my experience in industry, academia, and IEEE activities will allow me to be effective in helping the society maintain a balance between the various needs of its expanding membership.

In continuing on the board, I would emphasize those areas that have been personal concerns throughout my years of IEEE activity: education, accreditation, standardization, and technical publication. I would especially seek ways for the society to address the shortfall in computer science/engineering faculty—a current crisis that points to significant problems in the computer industry’s future, if not resolved.

Biography. Elected to fill a vacated term on the Governing Board in May 1985, Rhyme has served on the IEEE Standards Coordinating Committee for Graphic Symbols and Descriptions since 1980, the IEEE-CS Logic and Computer Elements Committee since 1971, and was a member of the IEEE-CS Education Committee for many years. He has been an active reviewer for several IEEE-CS publications and has been appointed IEEE-CS visitor for the Accreditation Board for Engineering and Technology annually since 1981, and IEEE representative on the Engineering Accreditation Commission for the 1985-86 term.

Rhyme is currently on leave from Texas A&M University to serve as director of Systems Technology Research within the Computer-Aided Design Program of the Microelectronics and Computer Technology Corporation (MCC). He taught at A&M from 1967 until 1984 and has also served as a consultant in computer technology to a variety of national and international corporations and patent firms.

Rhyme received a PhD degree from the Georgia Institute of Technology in 1967. He was selected as the Outstanding Young Engineer in Texas in 1973 and was awarded the Terman Award by the ASEE in 1980. He has authored one textbook and over thirty technical papers.

John P. Riganati

Position statement. The Computer Society is the largest of the societies that comprise the IEEE. Computer science and technology have become a central part of virtually every other scientific and engineering discipline. Our journals, conferences, and standardization activities influence high technology research and development worldwide. The continued growth in membership and influence of the Computer Society depends directly on what we, its members, do.

We must be open to constant dynamic changes, both in our organization and in our functions. Our track record is good, but new challenges constantly arise. We must expand our international efforts, especially to obtain information from Japan and to increase our membership there. We must find ways to more rapidly promote development and use of transnational standards of high technical quality. We must continue to affirm the basic principle which led to our dramatic growth: that we are a society for its members.

Biography. Riganati is director of systems research of the Supercomputing Research Center, a new division of the Institute for Defense Analyses. Until July 1985, he was chief of the Computer System Components Division at the National Bureau of Standards, where he was involved in high-performance architectures and interfaces, communication protocols, security and integrity, special-purpose digital instrumentation, computer storage media including optical digital data disks, and novel highly survivable networking.

Prior to joining NBS, Riganati was with Rockwell International in Anaheim, California, as chief scientist and manager at the Communication Switching Systems Division, where he September 1985.
Rosenbaum is an information systems specialist with AT&T-IS. Previous positions include the Research Laboratory of Electronics, Laboratory for Nuclear Science, Project MAC at MIT; nuclear submarine test director (British/US Navies); senior technical advisor, Honeywell Information Systems.

She holds degrees in nuclear physics, applied mathematics, life sciences, and industrial management (MIT, PINY).

She has received commendations from the US and British Navies, an Outstanding Systems Personnel Award (HIS 1979), and NCC service awards (1982, 79).

Bruce Shriver

Position statement. The Computer Society is in the information business. Its journals, magazines, workshops, conferences, tutorials, Compmail +, and the Computer Society Press are all important information conduits. The future of the society largely depends on how successful we are in promoting and managing the flow of useful, timely information within our rapidly changing field. We must evolve both formal and informal mechanisms for such information exchange using our own technologies. We should provide forums not only for research results to be presented, but also for the sharing of the results of development efforts, experiments, experiences, mistakes, and educational and standards activities. Our roots must be in both the pragmatic and the formal aspects of our field. The numerous activities and services we provide are all expensive, both in time, talent, and money. As a member of the Governing Board, I will support cost-effective methods to encourage this exchange of information.

Biography. Shriver is a research staff member and department manager of Software Technology at IBM's T. J. Watson Research Center in Yorktown Heights, New York. He has served the Computer Society in a number of capacities. Currently, he is editor-in-chief of IEEE Software magazine. He was associate technical editor of Computer magazine for five years. He has served on and is currently a member of the Computer Society's Publications Board, Computer Advisory Committee, and Magazine Advisory Committee. He is a past chairman of the Technical Committee on Microprogramming and a past vice chairman of the Technical Committee on Computational Medicine. He has been either general chairman or program chairman of over a dozen conferences and has been a Distinguished Visitor of the IEEE.

Before joining IBM in June 1984, Shriver was the Alfred Lamson Research Professor of Computer Science at the University of Southwestern Louisiana, where he had been for the previous 11 years. He has published over 50 technical papers and chaired 14 dissertation committees. He received his PhD in computer science from the State University of New York at Buffalo in 1971. Shriver is a senior member of the IEEE.

Robert G. Stewart

Position statement. The short history of the computer profession has resulted in two great professional societies, the ACM and the IEEE Computer Society, providing services to computer professionals and by the working computer professional. It is my belief that the profession would be better served, and existing schisms and conflicts reduced, if a way can be found to merge these two fine organizations.

The Computer Society is led by hard-working, unpaid volunteers. About three-fourths of society members are from industry. But industry does not support employee participation in the society the way the universities do. Consequently many of our publications are vehicles to tenure as a result of academic domination of society editorial boards and leadership slots. A better balance is needed (note this requires better industry support also).

Our technical committees and local chapters deserve far more society staff support than they now receive.

Biography. Stewart is presently first vice president with responsibility for technical activities. He has been a member of the Governing Board, Publications Board, Finance Committee, Magazine Advisory Committee, New Publications Proposal Committee, Computer Standards Committee, Microprocessor Standards Committee, the 694, 696, 734, and 896 working groups, and is an associate editor of IEEE Micro. As a member of the Governing Board, he was instrumental in starting IEEE Micro and initiating efforts to investigate merger with the ACM.

As chairman of the Computer Standards Committee for 3½ years, he was responsible for initiating numerous standards activities which are now completed IEEE standards.

He has served as chairman of the Santa Clara Valley Reliability Chapter, which was awarded the Chapter of the Year Award during his tenure as chairman. He received the Honor Roll award from the Computer Society for "distinguished service in promulgating important standards in the microprocessor area."

He now works for Exxon in San Jose. He holds a PhD from ITT in Chicago. He is a senior member of the IEEE and a member of SID, Sigma Xi, and Pi Mu Epsilon. He is the composer of the Reliability Victory Song.

Harold S. Stone

Position statement. The primary goal of the IEEE Computer Society is to serve its members. There are three major thrusts of the society that have been most valued by its members—publications, conferences, and education. My goal is to sustain these activities, to broaden their scope where possible, and to seek new means for serving the membership.

Computer
Biography. Stone is the manager of Advanced Architecture Studies at IBM T.J. Watson Research Center in Yorktown Heights, New York. He has formerly been a faculty member at the University of Massachusetts and Stanford University and has held visiting faculty appointments at institutions throughout the world. He is the author, coauthor, or editor of six textbooks, and has produced over sixty technical publications. The series he has produced as a consulting editor to Addison-Wesley, McGraw-Hill, and University Microfilms contain more than seventy titles in all areas of computer science and engineering.

Stone received a PhD in electrical engineering in 1963 from the University of California at Berkeley. His research contributions have been primarily in computer architecture and digital systems design. He has been active in both the IEEE and ACM and has served as technical editor of Computer magazine and Governing Board member of the IEEE Computer Society.

Wing N. Toy

Position statement. My industrial experience and participation in the academic community have made me aware of the rapid, expanding information age. This evolution is both challenging and rewarding to all of us. I would like to have the opportunity to provide input, help set the direction, and participate in achieving the goals of the Computer Society.

The continual need for a closer coupling between academia and industry is vital to the growth of the Computer Society. One of its major goals should be strengthening this relationship for useful and relevant technical interchange. I will work for more direct participation from industry to enhance the technical programs of the Computer Society.

Another major benefit or a potential problem is the diverse needs of its members. These needs are growing and changing. They must be dynamically attuned to the advances of computer technology in a timely fashion through activities sponsored by technical committees. I will work to promote these activities of the Computer Society for the welfare of its members.

Biography. Toy is a fellow of the IEEE and presently a member of the Computer Editorial Board. He served on the IEEE Ad Hoc Accreditation Visitors Committee in 1979-84 and as a consultant for the Department of the Air Force on electronic engine control in 1979-82.

He currently is the Technical Director at Triconex in Irvine, California, responsible for the technical direction of the company in the area of distributed fault-tolerant control systems. He was previously with AT&T Bell Laboratories, where, for 33 years, he was involved in designing highly reliable processors for the Bell System electronic switching systems and other telephone-related applications. He was on the faculty of the Computer Science Division of Electrical Engineering at the University of California, Berkeley, as a Visiting MacKay Lecturer during the 1973-74 academic year.

He holds 21 US patents and has six more pending; and 20 papers in technical journals on his work. He is co-author of three books.

Toy received his BSEE and MSEE from the University of Illinois and his PhD in EE from the University of Pennsylvania. He was honored as an outstanding Asian American for the state of Illinois in 1982 and was named AT&T Bell Labs Fellow in 1983.

Helen M. Wood

Position statement. The Computer Society has grown to over 80,000 strong, with a budget in excess of $1 million. Because of the size and complexity of the society, its Governing Board and officers face a tough challenge—that of ensuring efficient, effective society operations, while pressing for continued expansion and enhancement of services to members. This challenge is further compounded by advancements in computing technology and growing demand for urgently needed national and international standards.

Managing a professional association of this size requires considerable time, energy, and a commitment to the goals of the organization. If elected, I will work for continued improvement of society operations and enhancement of services to its membership.

Biography. Wood is currently chief of the Information Systems Engineering Division, Institute for Computer Sciences and Technology, National Bureau of Standards. She previously directed ICST research projects in various areas of computer networking technology, including network operating systems and security.

Her professional activities include service on the IEEE Washington Section Executive Committee (1981-82); chair (1980-81), vice chair (1979-80), and treasurer (1978-79) of IEEE Washington Section Computer Chapter. She is now Computer Society treasurer, and she serves on the Executive Committee, Standards Board, Finance Committee, Operations Committee, Personnel Committee, and Computer Services Advisory Committee; she is also the Computer Society representative on IEEE TAB Finance Committee (1985-86) and has been active in Computer Society conferences since 1974. She served as vice chair of the ACM SIG on Data Communications (1983-85); secretary/treasurer (1981-83). She serves as executive vice president of the Association for Women in Computing (1984-86) and managing editor of the Journal of Telecommunication Networks.

Wood has a BS in mathematics from the University of Maryland and an MS in computer science from American University. She is an IEEE senior member and has received the IEEE Computer Society Meritorious Service Award (1983), Department of Commerce Bronze Medal Award (1982), and the IEEE Certificate of Recognition (1982).

Akihiko Yamada

Position statement. The Computer Society should engage itself in new activities arising from the integration of computers and communications and should lead in the exchange of research and development in these areas. Since the progress made will bring countries and people closer, we must improve our organizational interaction and become more international. To realize these objectives, I propose the following:

1. Publish leading-edge articles on international computer networks in our magazines by inviting papers and encouraging the submission of papers.
2. Translate excellent, up-to-date non-English articles, particularly from Japanese, for publication in our magazines and transactions. Also encourage people from outside the US to submit papers.
3. Enhance the cooperation with non-US societies and enhance the communications between US and non-US members through jointly sponsored international conferences and other joint activities.

If elected to the Governing Board, I will promote these objectives.

Biography. Currently an international editor for IEEE Design & Test of Computers magazine, Yamada is also the guest editor of the 1985 October D&T special issue on design and test in Japan. He arranged for the first translation of an original Japanese article for D&T's 1984 November issue. He was an invited speaker at the 19th IEEE/ACM Design Automation Conference on DA in Japan and at the 1984 IEEE International Test Conference plenary session on gate-array testing. He is currently an IEEE/IFIP CHDL 85 Program Committee member and was the chairman of the DA working group of the Information Processing Society of Japan for three years until March 1984.

Yamada is chief engineer at the EDP Systems Engineering Division of NEC Corporation and is in charge of the planning and development of CAE/CAD systems. He was previously manager at the CAD Engineering Department, Computer Engineering Division of NEC.

He received his BS degree in 1959 and PhD in engineering in 1980, both from Osaka University, Osaka, Japan. He is a member of IEEE, the Institute of Electronics and Communication Engineers of Japan, and the Information Processing Society of Japan.