Presented below and on the following pages are the position statements and biographical data of the Computer Society's candidates for president, first and second vice-presidents, and Governing Board. Election of officers to one-year terms and board members to two-year terms, each beginning January 1, 1982, 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 15, must be received at IEEE headquarters by October 30. Winners 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.

Special notice

Richard E. Merwin, current president of the IEEE Computer Society, died on Wednesday, August 28. His obituary appears on p. 125. Merwin was originally selected by the Governing Board to run for a second term as president. Oscar N. Garcia, who until Dr. Merwin's death was serving as first vice-president for publications, now assumes the post of president, in accordance with Computer Society Bylaws. Garcia has been selected by the Governing Board as the approved nominee for the position of Computer Society president for 1982. His position statement and biography appear below.

Nominees for first vice-president (select one)

Taylor L. Booth

Position statement. As the largest professional association in the area of computer engineering and science, the Computer Society must provide opportunities for the professional growth of its members, encourage the advancement of the knowledge base underlying the profession, and act as a spokesman to represent the profession both nationally and internationally. To meet these goals the Computer Society must continue its strong record of technical publications, tutorials, conferences, and chapter support. In addition, the Computer Society must take a more aggressive role, at both the national and international levels, in developing realistic solutions to the problems facing the profession.

To maintain the quality of the new graduates entering the profession, the Computer Society must take a greater role in defining and accrediting undergraduate programs in computer engineering and science. Many of the other societies within the IEEE are being impacted by the computer revolution. Thus, it is becoming more important that the membership of the Computer Society take a more active part in the governance of the IEEE. In particular, the Computer Society should be recognized as the lead society in formulating professional policy in the computer area. The Computer Society, through its officers and the Governing Board, also has the responsibility to advise various governmental agencies on policy matters which influence the computer profession.

As first vice-president I would work to implement policies and programs that would work toward these goals.

Biography. Booth is currently secretary of the Computer Society and a member of the Governing Board. He has been senior editor of the IEEE Transactions on Computers.

Nominee for president

Oscar N. Garcia

Position statement. You have witnessed during the last 30 years the incredible growth of the Computer Society of the IEEE. Through enlightened leadership and excellent staff support, along with a seemingly inexhaustible cadre of dedicated volunteers, we have continuously expanded our technical and educational activities, publications, conferences, chapters, and membership.

In this anniversary year it is quite proper to remember Einstein, who daily reminded himself of the enhancement of his inner and outer life by others, dead and alive, and endeavored to give in the same measure that he had received and was receiving. The legacy of our past leadership demands no lesser commitment from all of us.

It is just as proper today to wonder what the next 30 years will be like and make suitable plans to continue our leadership. But if, more pragmatically, we look to the work at hand, we can identify some immediate objectives:

(1) Facilitate the professional growth of our membership through more tutorials, application-oriented publications, specialized newsletters, and educational activities of high technical caliber.

(2) Give budgetary responsibilities and more accountability to the technical committees, since technical activities are at the heart of what the society is.

(3) Assure a long-term financial base for the society by sensible capital investment and securing a fair share of financial support from, and societal representation within, the IEEE.

(4) Establish new procedures and practices to implement the approved reorganization of the society, which decentralizes our operations in order to cope with growth.

(5) Foster broader volunteer participation in the affairs of the society by persuading employers that everyone benefits from standards, tutorials, conferences, chapter activities, and publications.

I enthusiastically invite your active participation in making our IEEE Computer Society even better and more responsive to the needs of our members and of society.

Biography. Garcia is currently the Computer Society's first vice-president for publications and a member of its Executive Committee. Formerly the first vice-president for technical activities, he also served as secretary in 1978-79. He was program chairman for the 1979 International Conference on Parallel Processing, the 1977 Model Curriculum Workshop, and the 1975 Symposium on Computer Architecture, which he chaired in 1976. He was an IEEE-CS delegate to the PRC in 1978. While a member of the IEEE Student Activities Committee, he was responsible for student chapter organization. He was Southeastern Area Committee chairman (1974-75), chapter chairman (1972-73), and a distinguished visitor (1973-76). An IEEE senior member, Garcia is also a member of Tau Beta Pi, Eta Kappa Nu, Sigma Xi, Phi Kappa Phi, ACM, and ASEE.

Currently professor and chairman of the Computer Science and Engineering Department at the University of South Florida, he has taught at several other universities, worked for IBM, Honeywell, and NASA, and was an NSF science faculty fellow.

Garcia holds the BSEE (1961) and the MSEE (1964) from NCSU and a PhD (1969) from the University of Maryland. He received the 1972 ASEE Outstanding Young Engineering Teacher Award and a Computer Society Special Award.
since 1978 and was an associate editor from 1973 to 1977. He was a member of the Education Committee and the Publications Committee and was a distinguished visitor for 1975-1977.

A fellow of the IEEE, he is active as an ad hoc visitor for the Accreditation Board for Engineering and Technology, a member of the Accreditation Review Committee, and a member of the Advisory Board of the Proceedings of the IEEE. He is also a member of ACM, ASEE, and AAUP.

Booth is a professor of computer science and electrical engineering in the Electrical Engineering and Computer Science Department at the University of Connecticut. He has research interests in the area of computer system modeling and performance analysis, and 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 Corp. in Baltimore, Md.

He received the BS, MS and PhD in electrical engineering from the University of Connecticut in 1955, 1956, and 1962. Booth was awarded the Frederick Emmons Terman Award in 1972 and is listed in Who's Who in America and numerous other similar publications.

King-sun Fu

Position statement. The significant growth of the Computer Society in recent years, in terms of the scope of the activities as well as the size of the membership, has provided us with both new opportunities and new challenges. Our goal is to meet these challenges and to make our society a recognized leader in the technical community. I will work for expansion of the Computer Society's publications, technical, educational, and chapter activities. Specifically, we must:

1. Continue to strengthen our publications. Our society needs a long-range plan for publications growth including the publication of application-oriented journals and new, specific technical newsletters.

2. Continue to improve our programs of technical activities to meet the needs of all members. Close interactions should be established among technical committee activities (conferences and workshops), chapter activities, tutorials, and publications.

3. Initiate and continue educational programs to overcome technical obsolescence, and organize more local tutorials and short technical meetings for engineers in industry.

4. Bring broader membership participation to society activities. We should improve our chapter and student activities to better serve our current and prospective membership. We should vigorously pursue contacts with other professional societies, both within and outside the IEEE.

Biography. Fu has been a member of the IEEE Computer Society's Governing Board since 1978. He is also program chairman of the 1981 Workshop on Computer Architecture for Pattern Analysis and Image Data Base Management, and the senior editor of IEEE Transactions on Pattern Analysis and Machine Intelligence. He was program chairman of Compsec '79. His other Computer Society activities have included chairing the Machine Pattern Analysis Technical Committee (1974-77), the Piore Award Committee (1977-79), and the 1978 Pattern Recognition and Image Processing Conference.

He is a fellow of the IEEE, a member of the National Academy of Engineering and Academia Sinica, a Guggenheim fellow, and the first president of the International Association for Pattern Recognition. Fu received the Herbert N. McCoy Award for contributions to science in 1976 and the Computer Society's Honor Roll Award in 1973. Certificates of Appreciation in 1977, 1979, and 1980, and Outstanding Paper Award in 1977. He serves on the editorial boards of six periodicals and is the author of three books on pattern recognition.

Fu, currently Goss Distinguished Professor of Engineering and a professor of electrical engineering at Purdue University, received his PhD in electrical engineering from the University of Illinois, Urbana, in 1959.

Nominees for second vice-president (select one)

C. V. Ramamoorthy

Position Statement. I will work for expansion of the Computer Society's programs in education, chapters, publications, and technical activities. In particular, I will initiate (1) continuing educational programs with the help of government, industry, and universities to overcome technical obsolescence and (2) programs with extensive support from government and industry to improve the educational and professional opportunities of our disabled and disadvantaged members.

To help members keep up with advances in our technology, I will initiate programs that will bring the new knowledge into our homes via multimedia approaches such as video cassette tapes. Under my direction, our Education Committee has started acquiring such materials from industries, universities, and conferences for eventual distribution to our membership. I will expand these activities.

Since our membership spans the whole globe, I will continue our ties with professional organizations of other countries, particularly those who are in need of our educational and professional help.

Biography. Ramamoorthy has been a Governing Board member for four years and is currently the society's vice-president for educational activities. He also serves on the Editorial Board of the IEEE Transactions on Software Engineering and on the Computer Society's Publications Board. He was formerly chairman of the Education Committee (1974-77) and the Distinguished Visitors Program (1973-74) and has served as program chairman for several conferences, including the International Computer Symposium in Taiwan in December 1980, and as an associate editor of the IEEE Transactions on Computers.

Ramamoorthy is a professor of electrical engineering and computer science at the University of California, Berkeley, where he is the faculty advisor for the Society of Hispanic Engineers and Scientists. Before that, he was a professor at the University of Texas, Austin, and a senior staff scientist with Honeywell's Computer Group in Massachusetts for over a decade.

The author of more than 100 journal articles, Ramamoorthy has research interests in computer architecture and software engineering. In 1980, he was an invited lecturer at the Summer School of Software Engineering sponsored by the Italian Computer Society and at the International Congress for Data Processing held in Berlin. A fellow of the IEEE with a PhD from Harvard, he has received two awards from the Computer Society.

Roy L. Russo

Position statement. The Computer Society is a leading professional organization with an enviable record of accomplishment established by the people who form the society: our members, officers and Governing Board, volunteers, and employees. To be successful in the future, we must have goals for these various groups.

Over the past year we added about 8000 members, and now total over 50,000. As we grow even more, we must continue to attract the broad base of engineers, programmers, computer scientists, etc., essential to understanding and conveying what is happening in the computer field.

Our officers and volunteers need to work within an organization where responsibility and authority is spread among many people. The recently approved bylaws have moved us toward this goal. Our next step must be to specify practices and procedures defining how we should operate within the new organization.

Our volunteers—that is, the appointed committee chairpersons and members, editors, etc.—are the backbone of the society. The participation of university and government volunteers is extensive. We must, however, increase the participation of people from industry so that their technical
work is more extensively presented and their need for pragmatic material is better satisfied.

Our society employees provide us with creative and conscientious support for conferences, publications, etc. As the society grows, we must add to our staff at the same level of quality, and we must provide them with adequate facilities.

I will work towards the goals described here, and I welcome your support and ideas.

Biography. Currently treasurer of the Computer Society and a member of the Governing Board and Executive Committee, Russo has served the society as a member of the Publications Committee (1979-80), chairman of conference affairs on the Systems Technology Technical Interest Council (1978), chairman of the Design Automation Technical Committee (1976-77), and representative to several IEEE/ACM conferences. A senior member of the IEEE, he is also a member of Eta Kappa Nu, Sigma Xi, and ACM/SIGDA.

Previously an assistant professor at Pennsylvania State University and a research staff member and manager at the IBM Research Center, Russo is presently a senior engineer in the IBM General Technology Division, where he is responsible for design automation strategy. He has authored a number of papers on partitioning of computer logic, computer-aided design, and error-tolerant design. He holds a patent and several patent applications.

He holds BSEE, MSEEE, and PhD degrees from Pennsylvania State University. He received the L. A. Doggett Award for outstanding writing in electrical engineering from Pennsylvania State University, an Outstanding Contribution Award and Invention Achievement Award from IBM, and an award from the Computer Society.

Governing Board nominees (select 10)

**Dennis Allison**

*Position statement.* The expanding role of the computer in society is matched by a similar explosion of the Computer Society's role in serving both ourselves as professionals and society as a whole.

But we are victims of our own success. It is difficult to continue to understand computer technology when the boundaries of knowledge expand exponentially; it is relatively difficult to transfer the wisdom and folklore of the computing arts to the new generation of computerists and to the general public.

The emergence of low-cost microprocessor-based computers and VLSI electronics has put a new tool into the hands of mankind. It is our task to make this tool usable by our membership and others. To do this we must maintain a vigorous program of publications, conferences, and workshops and continue to press for standards to assist in orderly growth. Only vigorous efforts in this regard will differentiate growth from chaos.

**Biography.** Allison has served the Computer Society in a variety of technical capacities—for example, as associate technical editor of *Computer* and as a member of the Program Committees for Compcon Spring and the Asilomar Microprocessor Workshop. He is also active in the ACM and has served as an ACM national lecturer. He was a founder and served as president of the People's Computer Company, a nonprofit educational corporation dedicated to promoting personal computing.

He is currently a self-employed consultant and part-time lecturer in the Computer Systems Laboratory at Stanford University. His areas of interest include programming language design, compiler and operating system implementation, computer architecture, microprocessor and VLSI design, microprogramming, analysis of algorithms, personal computing, software engineering, and the sociology of computing. He holds a degree in physics from the University of California at Berkeley.

**Barry W. Boehm**

*Position statement.* My primary interest as a member of the Governing Board would be to reinforce the Computer Society's leading position in helping to bring the computer hardware and computer software fields closer together. These fields already have a lot to learn from each other, and I think their ability to capitalize on each other's strengths is crucial to the advancement of the computer field in general.

While I've been chairman of the Software Engineering TC, we've initiated some joint workshops with hardware-oriented TCs on such topics as the use of system engineering techniques in software engineering and the application of software engineering techniques to VLSI problems. I think that there's a great deal more that can be done to stimulate the growth of software engineering and software engineering, and that the Computer Society is the ideal organization to do it.

**Biography.** A member of the Technical Committee on Software Engineering since 1975, Boehm currently serves as its chairman. He has also been a lecturer in the society's Distinguished Visitors Program (1976-77), a member of the *IEEE Transactions on Software Engineering* Editorial Board, and program chairman for the 1975 International Conference on Reliable Software. Boehm, who is an associate fellow of the American Institute of Aeronautics and Astronautics, chaired AIAA's Technical Committee on Computer Systems (1967-69) and received its Information Systems Award in 1979. He is a former AFIPS Conferences Committee chairman (1969-72).

In his position as TRW's director of software research and technology, Software Systems Operations, Boehm is currently managing three TRW programs focusing on software productivity, research, and cost methodology. He is also a visiting professor at UCLA.

Boehm received his BA degree from Harvard and his MA and PhD degrees from UCLA—all in mathematics—in 1957, 1961, and 1964.

**Jon T. Butler**

*Position statement.* The Computer Society has grown at an impressive rate. This is shown by new journals, new conferences, new technical committees, and a new structure designed to provide a better distribution of management functions. Important challenges facing the society are to encourage emerging technologies, to improve the quality of our journals, conferences, and tutorials, and to provide key services such as standards. In order to meet these challenges, the Governing Board must achieve a balance—balance between the extent of services and our resources, a balance in our policies to reflect the industrial, governmental, and academic composition of our membership, and a balance between the needs of specific groups and those of the general membership. As a member of the Governing Board, I would be guided by my conviction that such a balance best serves our members.

**Biography.** Butler is chairman of the society's Technical Committee on Multiple-Valued Logic. He served as general chairman of the 1980 International Symposium on Multiple-Valued Logic and is co-guest editor on the *IEEE Transactions on Computers* special section on multiple-valued logic.

Butler has held positions in government, university, and industry. He was an electronics engineer at the Air Force Avionics Laboratory, Wright-Patterson AFB, Ohio, from 1967 to 1970. Since 1974, he has been at Northwestern University, Evanston, Illinois, where he is now an associate professor. He has held four industrial summer positions, the latest as a member of the technical staff, Bell Telephone Laboratories, Naperville, Illinois. His research interests include multiple-valued logic, fault-tolerant computing, and array processing.

Butler received the BEE and M.Engr. degrees from Rensselaer Polytechnic Institute in 1966 and 1967. He received the PhD degree from Ohio State University in 1973. He has held two National Research Council Postdoctoral Associateships, one at the Air Force Avionics Laboratory and one at the Naval Postgraduate School. He is listed in *Who's Who in Technology Today* and in *Outstanding Young Men in America*. Butler is a registered professional engineer.
areas related to computers. In this era of ever-increasing travel costs, I believe that increased emphasis must be placed on services like the Chapter Tutorial Program, the Distinguished Visitors Program, providing more tutorial/review articles in the various publications, and increasing the volume and quality of the Computer Society Press. Particular emphasis must also be placed on providing support for the local chapters which are the prime focal point for the members. The Computer Society must also continue its leadership role in the education area with continuing education becoming ever more important.

Biography. Cain is an associate professor of electrical engineering at the University of Pittsburgh. His Computer Society activities include chairmanship of the Mini/Microcomputer Technical Committee, associate editor of IEEE Micro, member of the Education Committee, and member of the Computer Standards Committee.

Cain has industrial experience with Westinghouse Electric Corporation and Bell Telephone Laboratories. His research interests are in the applications of computing in real-time systems with particular emphasis in power systems. He received the PhD in electrical engineering in 1970 from the University of Pittsburgh. He is a past recipient of the ASEE Dow Outstanding Young Faculty Award, the Computer Society Special Group Award, and the ASEE Western Electric Fund Award for Excellence in Engineering Education.

Bill D. Carroll

Position statement. One of the greatest challenges facing the computer professional is keeping pace with rapidly advancing technology. I feel that the major role of the Computer Society is to provide services that help its members meet this challenge. Toward this end, I will support its continued expansion in the areas of conferences, publications, tutorials, technical committees, and chapters and will work to improve existing services in these areas.

Clearly, the society must continue to grow to meet its obligations to the membership and the computing community at large. However, growth should be coupled with refinement and take place in an orderly manner. In this regard, I will support the development of a long-range plan to guide Computer Society growth. Furthermore, I feel that the society could benefit from more direct input from the members to the officers. Accordingly, I will strive to establish an effective means for such communication.

Biography. Carroll serves on the Computer Society’s Publications Board, Education Committee, and Distributed Processing, Fault-Tolerant Computing, and Design Automation TCs. He was co-general chairman of the First International Conference on Distributed Computing Systems (1979). He has served on the Systems Technology Technical Interest Council (1978-80), as the Southeastern Area Committee chairman (1977-79), and as organizer and chairman of the Alabama chapter (1975-77).

Carroll is a senior member of the IEEE, a member of ACM, ASEE, Tau Beta Pi, Eta Kappa Nu, and Sigma Xi, and a registered professional engineer. Co-author of An Introduction to Computer Logic, he has written numerous technical papers and is on the Editorial Board of The Journal of Digital Systems.

A professor of Computer Science and Engineering at the University of Texas at Arlington, Carroll was previously a visitor in the EECS Department at the University of California-Berkeley (1979-80) and a member of the Auburn University faculty (1970-79). He has had industrial experience with General Dynamics and Texas Instruments. Carroll holds BSEE, MSEE, and PhD degrees from the University of Texas at Austin. He has received an ASEE Dow Outstanding Young Faculty Award (1975), a NASA Technology Innovation Award (1979), and an NSF Fellowship (1979-80).

Y. T. Chien

Position statement. The Computer Society’s size and rate of growth have had a major impact on its own membership, the IEEE organization, and the computer profession. This impact, properly massaged into positive and creative forces, can benefit us all. If elected, I will work to augment these forces. First, I would like to strengthen the transfer of technical know-how among specialty groups within the Computer Society, between the technically and professionally oriented communities, and among the IEEE societies/groups.

Secondly, I feel strongly about establishing policies designed to improve the ways in which the society’s offices serve its membership. The Computer Society has a distinguished record of relying on able, enthusiastic volunteers. These volunteers are the single, most-precious resource that we must maintain and develop. I believe that the experience derived from my involvement in technical and professional activities will be extremely useful in working toward these goals.

Biography. Chien, an active member of the Technical Committee on Machine Intelligence and Pattern Analysis since 1974, currently serves as its chairman. He has also been a participant in the Computer Society’s Distinguished Visitors Program (1975-76), a member of the Editorial Board for the IEEE Transactions on Pattern Analysis and Machine Intelligence, and a session organizer and/or chairman for a number of IEEE-CS sponsored meetings and conferences, including the Fifth International Conference on Pattern Recognition. An IEEE fellow, he is also a member of Eta Kappa Nu, Sigma Xi, and ACM.

A professor in the Department of Electrical Engineering and Computer Science at the University of Connecticut, Chien was head of the department during 1976-1980 and currently has a special assignment as assistant dean for computer research and applications. He has published a number of articles on pattern recognition and image processing, authored the book Interactive Pattern Recognition, and co-authored Computing—Fundamentals and Applications.

He holds MS and PhD degrees in Electrical Engineering from Purdue University. He is the recipient of three Certificates of Appreciation for services to the IEEE and the IEEE Computer Society.

Paul L. Hazan

Position statement. The opportunity to apply computing technology to the needs of society have never been greater. From education to industrial productivity and from defense to the needs of the handicapped, we hear an ever-louder call for the creative application of our technology. We in the IEEE Computer Society are in a unique position to bridge the push of technology and the pull of demand by providing the mature leadership that will put our powerful discipline to the service of mankind. The challenge is awesome, but so is our potential for unprecedented achievements. The Computer Society provides an exceptional vehicle for the cross-fertilization of ideas and for promoting our individual and collective professional growth. If elected, I will do my best to increase Computer Society participation in innovative activities responsive to the aspirations of our membership and to the needs of the greater community around us.

Biography. Hazan is on the Board of Governors and chairs the Computer Advisory Committee. While chairman of the IEEE-CS Mini/Micro Technical Committee (1977-80), he organized 10 national workshops on microprocessor technology in educational, military, and industrial applications. He also served as guest editor of Computer’s January 1981 special issue on computing and the handicapped. Active in the Computer Society since the sixties, Hazan started as secretary of the Washington, DC, chapter in
Samir S. Husson

Position statement. The IEEE Computer Society is a reflection of the interdependencies of computer science and technology. There are 26 technical committees, each operating within a defined scope and together serving the technical needs of the society. Other important functions include conferences, publications, chapters, tutorials, and standards. Collectively they provide the necessary support and services needed to maintain the technical vitality of our members. All these functions must remain strong, active, and flexible.

If elected, I plan to devote my efforts to the health and vitality of the technical and chapter committees, to ensure that the level, quality, and diversity of their support is consistent with the technical needs of the society. I will also support an active role for the Computer Society in effecting closer cooperation between the academic and industrial communities and in pursuing joint technical activities with other professional societies that share a common technical interest with us.

Biography. Husson is currently serving the Computer Society in the following capacities: Technical Board vice-chairman, Computer associate technical editor, and Publications Committee member. He served as chairman of the Technical Committee on Microprogramming and chaired the ad-hoc Committee on TC Structure and Vitality. Other professional activities include serving on the 1981 AFIPS Harry Goode Award Committee and NCC 81 Program Committee.

Husson, a senior engineer at IBM, has published a textbook, Microprogramming—Principles and Practices, and a number of papers in various technical publications. He is currently the editor of the IBM Journal of Research and Development.

David Jacobsohn

Position statement. As an active participant in the operation of the Computer Society over the past decade, I have watched the society's continuous, meteoric growth. I want to see that this growth continues and that it does so with a constant improvement in the quality, and quantity of services offered to the membership. I believe a strong short- and long-term planning effort is required for this to happen and to keep the society viable. I expect to be in the center of that effort.

Biography. Currently chairman of the Planning Committee, Jacobsohn has been active in the governance of the IEEE Computer Society for the past decade. He has been a member of the Governing Board and the Executive Committee, society secretary, chairman of the Constitution and Bylaws Committee, chairman of the Conferences and Meetings Committee, and a member of the 1980 and 1981 Compsac Committees. In addition, he is a founding member and director of the Institute for the Certification of Computer Professionals and a member of the AFIPS History Committee.

Since 1949, he has been involved in some aspect of digital computing, including participation in the logic and hardware design of various early computers, namely, Avidac, George, Flip, and Maniac III. His special interests are in control and arithmetic algorithms. His current responsibility is in facility planning for the Applied Mathematics Division of Argonne National Laboratory. He has been with Argonne since 1945, with the exception of the period from 1958 to 1961 when he was the senior computer engineer at the Institute for Computer Research, University of Chicago. He received his SB in mathematics from the University of Chicago in 1951.

Stephen F. Lundstrom

Position statement. I believe the main objective of the Computer Society is to serve as a vehicle for (and to actively encourage) interchange of technical information within the computing community. This community has two major needs: to keep up with the explosive growth into new application areas and to maintain the technical competence of its members. Our society can impact both of these needs. Our chapter activities, technical publications, and conferences provide a variety of forums to keep our members informed about evolving technology. As a member of the Governing Board, I would encourage the use of these forums to consider problems of immediate special interest (such as energy-efficient computation) and to promote sensitivity to the needs of the disciplines that our technology impacts. Although advances in theory, system organization, and analysis are important, we must also provide forums concerning the real, "how to" problems of computer system development and implementation.

Biography. Lundstrom has served two terms on the Governing Board, 1979-81 and 1971-73. He is currently vice-president for area activities. He has been Computer Society secretary, active in organizing various workshops, and was chairman of the San Francisco Bay Area Computer Group Chapter (1969-71). Lundstrom was a member of the NCC '79 Program Committee.

Current program manager for scientific systems in the Special Systems Division of Burroughs Corporation's Federal and Special Systems Group, Lundstrom is responsible for the development of a very large modular processing system. Prior to joining Burroughs, he was with Texas A & M University, Gould Data Systems Division, and Automation Technology, Inc. While at Fairchild's R & D Labs, Lundstrom was one of the designers of the Symbol computer. Lundstrom received the PhD in computer science from Texas A & M University, and the Electrical Engineer, the MS(EE), and BSE (science engineering) degrees from the University of Michigan. He is listed in Outstanding Young Men in America.

John F. Meyer

Position statement. Although the current strength and vitality of the Computer Society is due in no small measure to the rapid growth of the computer profession, the profession has likewise benefitted from the society's success in accomplishing its principal objective—the dissemination of technical information. As the scope of the computer field broadens, we must continue to seek more diverse means of disseminating information via our publications, conferences, workshops, tutorials, and chapter activities. At the same time, we cannot allow diversity to compromise the quality of the information conveyed. In my view, a principal mechanism for maintaining quality is a strong base of active participation in our technical committees. How to best foster such participation is a question that deserves the continued attention of the Governing
Board. If elected, I would promote consideration of this question, in balance with other important issues that bear on the future success of the society.

**Biography.** Meyer, a member of the Publications Board, has served as chairman of the Technical Committee on Fault-Tolerant Computing, guest editor of the *IEEE Transactions on Computers*, and chairman or vice-chairman of several symposia and workshops on fault-tolerant computing. A senior member of the IEE, he is also a member of the IEE Reliability Society, the ACM, the AAAS, an IFIP working group, Sigma Xi, Tau Beta Pi, and Eta Kappa Nu.

Meyer holds the BSE degree from the University of Michigan, Ann Arbor, Meyer has been active in computer research for over 20 years and has published widely in the areas of system modeling and fault-tolerant computing. He was a visiting researcher at the LAAS in Toulouse, France (1977), and was affiliated with Thomson-CSF in Paris (1975). Prior to 1967, was a research engineer at Cal Tech JPL.

Meyer holds the BSE degree from the University of Michigan, the MS from Stanford University, both in electrical engineering, and the PhD in computer science from the University of Michigan. He received a Certificate of Appreciation from the Computer Society (1981), a Distinguished Service Award from the University of Michigan (1973), and an Inventions and Contributions Award from NASA (1964).

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**Position statement.** I have been active in the computer profession since the early 1960's and have been privileged to serve it in many ways—from hands-on design to professional consulting. Furthermore, I am fortunate in having a strong technical foundation in microelectronics and communications, the disciplines forming the foundation of today's emerging information industry.

The Computer Society must continuously meet the challenge of providing its membership with leading-edge technological information for this expanded information industry. As a member of the Governing Board, I will continue my active participation in computer conferences and expand my involvement into the area of publications. The time has come to constructively manage the excellent growth of our society and to provide its membership with a balanced, focused exposure on the evolving technologies of the 1980's. I believe that I can help accomplish these goals with a mix of practical and academic perspectives that will benefit all.

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**Biography.** Rudolph is currently on the Compon Spring Steering Committee, having just served as program chairman for Compon Spring 81 and appointed general chairman for 1982. In addition, he has twice appeared as a panelist at NCC. A long-time member of both the IEE and the Computer Society, he is also a member of Eta Kappa Nu and Sigma Xi. In 1973 he was nominated as United Nations special representative for telecommunications to Brazil.

Rudolph is a vice-president and heads Booiz, Allen & Hamilton's Electronic Practice in the Western United States. He joined Booiz, Allen in 1981 from Gnostic Concepts where he was president of Gnostic Systems and Technology. He brings a personal depth of consulting experience in three disciplines: computers, communications, and microelectronics. He has also held management positions at Hewlett-Packard Laboratories and Rockwell International and was a member of the technical staff at Bell Laboratories.

Paralleling his business career, Rudolph has extensive academic experience, having had both faculty and lecturership appointments at Syracuse University, Stanford University, and the University of Sao Paulo, Brazil. Rudolph received his PhD in electrical engineering from Syracuse University. His BSEE and MSSEE were achieved, respectively, at the University of Illinois and New York University.

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**Position statement.** As a technical and scientific organization, the Computer Society has a number of important responsibilities. It must provide for effective transfer of information between members, between members and the public at large, and between members and elected officials. In addition the society must be sensitive to the social implications of technology and provide insights and leadership in this complex area. The society's job in the coming decade will be more challenging than in the past; resources will be more difficult to obtain but the need for conferences, publications, meetings, and workshops will continue to grow just to keep pace with the rapid change in technology. Having been involved with the computer industry since 1954, I hope to use my background, through continued membership on the Board of Governors, to aid the society in providing efficient and effective service.

**Biography.** Pohm is presently a member of the Board of Governors and is serving on the Audit Committee of the board. He is also presently serving as co-editor for *Computer*'s tutorial series on computer system design. He has served as session chairman, workshop chairman, and participant for the Vail Computer Elements workshops and Compcon Fall 75.

He presently holds the position of distinguished professor at Iowa State University in the Department of Electrical and Computer Engineering. A fellow of the IEE, he is the recipient of a Western Electric Regional Engineering Teacher Award and holds over a dozen patents in the computer memory area. His main research and teaching interests are in the computer memory and systems area.

He received his BS from Cleveland State University (Fenn College) in 1950 and MS and PhD from Iowa State University in 1953 and 1954. He worked for Sperry Unicat from 1954 to 1958 before returning to Iowa State.

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**Position statement.** I have been active in the computer profession since the early 1960's and have been privileged to serve it in many ways—from hands-on design to professional consulting. Furthermore, I am fortunate in having a strong technical foundation in microelectronics and communications, the disciplines forming the foundation of today's emerging information industry.

The Computer Society must continuously meet the challenge of providing its membership with leading-edge technological information for this expanded information industry. As a member of the Governing Board, I will continue my active participation in computer conferences and expand my involvement into the area of publications. The time has come to constructively manage the excellent growth of our society and to provide its membership with a balanced, focused exposure on the evolving technologies of the 1980's. I believe that I can help accomplish these goals with a mix of practical and academic perspectives that will benefit all.

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**Biography.** Pohm is presently a member of the Board of Governors and is serving on the Audit Committee of the board. He is also presently serving as co-editor for *Computer*'s tutorial series on computer system design. He has served as session chairman, workshop chairman, and participant for the Vail Computer Elements workshops and Compcon Fall 75.

He presently holds the position of distinguished professor at Iowa State University in the Department of Electrical and Computer Engineering. A fellow of the IEE, he is the recipient of a Western Electric Regional Engineering Teacher Award and holds over a dozen patents in the computer memory area. His main research and teaching interests are in the computer memory and systems area.

He received his BS from Cleveland State University (Fenn College) in 1950 and MS and PhD from Iowa State University in 1953 and 1954. He worked for Sperry Unicat from 1954 to 1958 before returning to Iowa State.
Position statement. The Computer Society is the fastest growing professional organization in a rapidly growing field. But more important than mere growth is the society's response to the evolving needs of its membership. Existing services have been reorganized and improved while new services have been added. The Computer Society now publishes six journals or magazines, and several suggestions for additional journals are being examined. The tutorial program has been greatly expanded, new facilities have been acquired for both the East and West Coast operations, and the Computer Society Press has been set up to handle nonperiodical publications. Over the past two years, a reorganized structure of officers and committees has been formulated, adopted, and is now in place. This structure will make it possible to broaden our volunteer base and increase its effectiveness.

During this period, I have had the pleasure of watching these developments and, I hope, making some small contributions to them. I would like to continue to participate and help.

Biography. Snyder is a member of the IEEE Computer Society's Education Committee, its representative to the Institute for the Certification of Computer Professionals, and vice-chairman of the Publications Board. He served two terms on the Governing Board seven years ago. He has served on the ACM Committee on Curricula in Computer Science and its Computer Science Conference Subcommittee. He was vice-chairman and then chairman of the ACM Computer Science Board, on which he has served for ten years. A former chairman of the AFIPS Education Committee, he currently serves as Computer Society representative to the committee.

He is a senior member of IEEE, a member of Sigma Xi, and a fellow of both the American Physical Society and the American Association for the Advancement of Science.

Snyder is head of the Department of Computer Science at the University of Illinois, where he has been a member of the faculty since 1949. He has held visiting appointments at MIT, Los Alamos, Brookhaven, and the Lawrence Radiation Laboratory. His primary area of interest is the application of computers to problems in engineering and physics.

Snyder received his BS, MA, and PhD degrees in physics from Harvard.

Robert G. Stewart

Position statement. In order to improve the service of our society to the membership, I believe some new action items should be enacted by the Governing Board: (1) Make the Computer Society more hospitable to nonacademics. Most of the officers are university professors with some consequent over-weighting of society activities toward their interests. To paraphrase Bertold Brecht, Erst kommt der harte Ware, dann kommt der softe Ware. (2) Lower the cost of society tutorials by at least one-third. (3) Make the style of all society journals and magazines less formalistic and more readable. Currently, they perpetuate a style of writing which came into vogue a century ago. (4) Recognize chapters having superior professional programs. (5) Seek IEEE and society staff help for overloaded volunteers. (6) Make it possible to submit manuscripts for publication in computer literature. (7) Include members on the Governing Board from Europe and the Orient. I solicit your vote to demonstrate support of these needed items.

Biography. Stewart is presently a member of the Governing Board, the Publications Board, and the Computer Standards Committee. He served as chairman of the Standards Committee for 3 1/2 years. He initiated and published in Computer proposed IEEE Standards for Assembly Language, S-100 bus, Floating-Point Arithmetic, Pascal, HHL for Microprocessors, Multibus, Local Networks, Microprocessor Operating System Interface, and Future Bus. As a concerned member of the Governing Board he was instrumental in starting IEEE Micro. He has served as chairman of the Santa Clara Valley Reliability Chapters, which was awarded the Chapter of the Year Award during his tenure as chairman.

He now does work in short-channel MOS device modeling at National Semiconductor. He holds a PhD from IIT in Chicago. He is a senior member of the IEEE and a member of Sigma Xi and Pi Mu Epsilon.

Stanley Winkler

Position statement. The major purpose of the IEEE Computer Society is serving its members. Current needs are served through the publications, conferences, meetings, and workshops. The requirements for continuing professional development are provided by tutorials and other educational activities. The awards and honors given by the society serve to recognize outstanding achievements. The Computer Society has done an excellent job. Its publications are growing in both variety and circulation. More conferences, which are attended by increasing numbers, are being sponsored. The time has come to constructively manage this growth to assure that all members are adequately served. The society should continue to improve communication with members, expand the popular and effective professional development (tutorial) activity, and provide leadership in the exchange of technical information.

Biography. Winkler is currently chairman of the Distinguished Service Award Committee, a member of Computer's Editorial Board, and the Computer Society's representative to the NCC Board. He was former chairman of the Computer Society's Professional Development Committee and a member of the Publications Committee. He was general program chairman of the 1972 IEEE-CS/ACM International Conference on Computer Communication; program vice-chairman of the 1971 SJCC; program chairman and editor for the 1976 NCC; and an advisor for the 1979 NCC.

He is a past president of the International Council for Computer Communication and headed the US Delegation to the 1967 NATO Conference on Operational Research. He is a member of ACM and SIAM and is a fellow of the American Association for the Advancement of Science.

Currently director of technical professional relations in Technical Personnel Development at IBM Armonk, Winkler has been associated with computing activities for over 25 years. He is an adjunct professor of computer systems at American University in Washington, DC, and is a member of Sigma Xi. He holds a PhD in applied mathematics from New York University and is a registered professional engineer (electrical engineering).