

RECEIVED
JUN 12 1973**ELECTRICAL ENGINEERING**®
STATEMENT BRANCHES DEPT.TOP-SIDE DEVELOPMENTS

CANDIDATES, whose names will appear on the election ballot, are listed in the June issue of SPECTRUM. Your ballots will be mailed to you in August. These are the people who will lead your organization next year. This is the annual opportunity for IEEE members to register their choices. Urge them to cast their ballots. Please vote!

PISCATAWAY MOVE has been confirmed by the Executive Committee (ExecCom) action. The 36,000 square foot building will take approximately one year to build. Groundbreaking is scheduled for sometime this summer. Current plans call for the building to be occupied by only the Administrative Services Department. Field Services and Publications, previously announced as moving, will remain at the United Engineering Center (UEC) in New York. (See E. E., Apr., p. 1)

WASHINGTON OFFICE will be moving into the National Society of Professional Engineers (NSPE) building. The change was approved by the ExecCom following a study of proposed sites that started last September. The new facilities, which includes a meeting room, are being shared with the ASME-EJC Washington representative.

MEETING SCHEDULE. ExecCom meeting, scheduled for November 19 in San Diego, California, has been rescheduled to November 27, in Hollywood, Florida. This will coincide with the Board of Directors (BofD) meeting on November 28 and 29. (See E. E., Apr., p. 1; Feb., p. 1.) The first meeting of the 1974 BofD will be on January 9. The new ExecCom will meet on the following day.

SOCIO-ECONOMIC ISSUES

PENSION PROGRESS REPORT. Plans continue for a targeted fall announcement of an IEEE pension plan. This would be a non-qualified plan for members (paid with after-tax dollars). On the legislative front, the Williams-Javits bill (S. 4) has been favorably reported out of committee. However, no action is expected on this bill until the conclusion of hearings by a special pension committee of the Senate Finance Committee. These hearings were scheduled for late May. In addition, Frank Cummings, IEEE Counsel on pension matters, has been asked to participate in a panel discussion on pensions. This panel was also arranged by the Senate Finance Committee. (See SPECTRUM, May, pp. 55-58).

PENSION LEGISLATION was the topic of a speech delivered by New York Senator Jacob Javits in late February at a special legislative forum cosponsored by IEEE. The Senator said, "I know that the Engineering Societies are especially concerned and interested in pension reform legislation.

"The Williams-Javits bill will be a landmark achievement and a major breakthrough toward . . . eliminating many of the serious injustices that have been found to exist." The Senator went on to say, "Once this breakthrough is achieved, we can build on it in a deliberate and intelligent fashion. . . In pursuit of this objective, it is encouraging and valuable to have the strong support of the professional groups." (See E. E., Apr., p. 2)

GUIDELINES FOR PROFESSIONAL EMPLOYMENT were announced at a Washington, D. C. news conference. (A complete text of the Guidelines was published in SPECTRUM, Apr., pp. 57-60.) By

conference time, 15 organizations had endorsed them. President Harold Chestnut emphasized the need for adequate pensions for engineers. He said, "What we are after is very simple: an equitable pension plan for the professional engineer which treats him fairly, with dignity, and provides him with economic security."

Edward Slowter and Irving Leibson, co-chairmen of the committee which formulated the Guidelines, noted that this was the first edition and that revisions and improvements to this document would be sought. (See E.E., Apr., p. 2; Feb., p. 1.)

ASSISTANT SECRETARY OF COMMERCE
Dr. Betsy Ancker-Johnson met with President Chestnut, three IEEE staff members, and representatives of 10 other scientific and engineering societies at a round table discussion, held in Washington, D. C. The conversation centered on ways government and technical societies could improve their working relationship. Dr. Ancker-Johnson, a member of IEEE, has only recently been appointed to this position in the Federal Government.

UNITED NATIONS Economic and Social Council (ECOSOC) has granted IEEE consultative status. Listed in Category II Status, IEEE has the right to name a representative and to submit written comments on ECOSOC activities. (This status also applies to ECOSOC's subsidiary units).

VOLUNTARY PILOT EMPLOYMENT ACTIVITY EXPERIMENT is being expanded (see E.E., Apr., p. 2). The Institute, in cooperation with the American Society of Mechanical Engineers (ASME) and the American Institute of Aeronautics and Astronautics (AIAA), will hold a Mid-Career Employment Workshop. The Workshop, at the UEC in New York, may be attended on June 18, 21, or 28. Members of these societies, who are over 40 years of age and seeking employment, are urged to attend. (All members can enroll in the employment program by obtaining an employment resume form. Write, Joe Casey.)

E.E. is sent without cost beyond dues to officers of IEEE Boards, Committees; Divisions, Societies, Groups, Conferences; Regions, Councils, Sections, Subsections, Chapters, and Branches. Second-class postage is paid at New York, N. Y.

ENGINEER-INDUSTRY EMPLOYMENT CONFERENCE, sponsored by the IEEE and eight other societies, was held in Chicago on May 7, 8, and 9. Approximately 85 industry and technical society leaders were present to discuss various problems of common interest. The "Employment Guidelines," that were publicly announced only three days earlier (see related story on page 1), was one topic of conversation. While those leaders representing industry were reluctant to endorse the "Guidelines," they did support the need for making them well known. A session on "Pension Reform—Time for Action" was moderated by IEEE General Manager Donald Fink.

TOOLS AND AIDS

PUBLIC AFFAIRS INVOLVEMENT WORKSHOP was held on June 1 at Ohio State University. Organized by the Engineering Liaison Public Relations Committee (IEEE and 9 other societies), the session was designed to create a dialogue among engineers on various approaches to pressing community problems. Invited were Section leaders in Ohio, lower Michigan, Kentucky, West Virginia, Indiana, and western Pennsylvania. The Liaison Committee is discussing the possibility of holding a series of workshops throughout the United States.

FOUR CORRESPONDENCE COURSES in electrotechnology are available in the Americas through IEEE. Prepared by the Institution of Electrical Engineers (IEE), Great Britain, the courses are designed to provide an engineer with an opportunity to bring himself up-to-date in post-graduate subjects in electrical, electronics, and control engineering. The course titles are: Field-Effect Transistors, Pulse-Code Modulation, Digital Instrumentation, and Modern Control Theory. The cost for members is \$75 and \$120 for non-members. (Copy of syllabus, Emma White)

SECRETARY'S REPORT for 1972 has been issued. Released in a new streamlined

format, copies were sent to Section Chairmen, Group/Society Presidents, Council and Area Chairmen, Student Counselors, and Chairman of Standing Committees and Boards. A condensed version will be published in the July issue of SPECTRUM.

SECTION NEWS

IT'S ELECTION TIME for many Sections, Subsections, Chapters, and Councils. You can aid in a smooth transition of information by reporting the election results on the forms provided for you. Over 1,000 names will have to be changed on the computer. Your help will make the job easier. These reports should be sent to Headquarters (attention: Emily Sirjane) within 20 days after the election. (Bylaw 402.5, paragraph 7)

SECTION APPOINTEES. In getting your Section ready for fall programming, you will want to immediately appoint your committee chairmen. The sooner these appointments are made, the more time they will have to organize their ideas and plan effectively. Don't forget to send IEEE the names of these appointed committee chairmen (to Emily Sirjane).

SECTION MANUAL. New Section Chairmen automatically receive this important guideline to successful Section committee's operation. Familiarity with the material is a good first step to efficient Section operation. You don't have to memorize it, just review it so that you know what support is available.

KNOW YOUR DIRECTOR. A four-page brochure is sent with the Section Manual. It contains a biographical sketch of your Regional Director and pertinent information on the structure and organization of the Region. It includes a map, makeup of the Regional Committee and important statistics. Keep this brochure handy—it can be an important communications link with your Regional Director and his Committee. Remember... he is your representative on the BofD.

REGIONAL OUTSTANDING LECTURE PROGRAM. A complete list of available

speakers, superceding and expanding previous lists, is given in the "blue sheets" (pp. 4G-4L). These need to be in the hands of program chairmen planning for fall meetings. (Copies, Peter Edmonds)

STUDENT NEWS

BENDIX AWARDS have been granted to seven Student Branches. These Awards, totaling \$2,500, help support specific projects to be completed during 1973. The winning Branches are: Louisiana Tech University, University of Southern California, Oklahoma State University, University of Alberta, University of British Columbia, University of Calgary, and the University of Mississippi. Proposals for the 1973 Bendix Awards must be postmarked no later than December 31, 1973. (Details, Bob Asdal)

PROMOTIONAL PACKAGE will be waiting for Student Branch Chairmen and Counselors when they return in the fall. The kit contains supplies, promotional material, operating manuals, etc. Copies of SPECTRUM will also be sent. Plan now to use this material for an early membership drive. Remember, the major growth of IEEE is through the Student membership.

INDIVIDUAL MEETING REPORTS (yellow sheets) are no longer required by Headquarters. However, you should record the names of speakers and films used at meetings. A list of contacts for industrial tours should also be maintained. This information is useful to other Branches and will be requested in a new Annual Report. Eventually a speakers, tours, and film directory will be published from material contained in the Annual Reports.

BRANCH COUNSELORS. If members of your Branch are having membership problems, send complete details to Headquarters. The more information that you provide, the easier it will be to solve the problem.

TAB NEWS

CONSUMER PRODUCT STANDARD Coordinating Committee is being formed. The

first project will be to create a list of products for which technical criteria could be developed. Efforts would be made to encourage producers of these products to print, on an attached label, answers to a pre-determined set of questions. While IEEE would not rate any product, it is hoped that the information provided by these questions and answers would provide consumers with a means of matching a product to their particular needs.

COMPLETE GROUP/SOCIETY LIST is printed in the "green sheets." The listing also notes which Division each Group/Society is in. Saving this sheet for future reference is recommended.

PUBLICATION NEWS

SPECTRUM DEADLINES for issues through March 1974 are printed on page 4E for your information. These dates should be made known to the membership to facilitate their contributing material.

MEMBERSHIP DIRECTORY questionnaire, second request, has been mailed. This listing will include all current members, except Students. There is a June 30th deadline for returning the information.

COMBINED INDEX OF IEEE Publications will include conference and other special publication material in next year's edition. That edition will be published by IEEE. A Cumulative Index to PROCEEDINGS of the IEEE has been published by Nichigai Associates, Inc., and is currently available at a price of \$40. (See E.E., Apr., pp. 3-4.)

CONVENTION NEWS

IEEE INTERCON ATTENDANCE was approximately 25,000. A total of 226 exhibitor companies were represented at the Coliseum. An editorial in Electronic Engineering Times commended the exhibit management for doing a "superb job."

TRANSISTOR POSTAGE STAMP was announced as part of a four stamp "Progress in Electronics" series. The announcement



of this stamp was made by Edward V. Dorsey, Regional Postmaster General, at the IEEE INTERCON Transistor Luncheon. (Mr. Dorsey is seen on the left with Nobel Laureates Brattain, Shockley, and Bardeen.) The other stamps in the series show Marconi's spark coil, DeForest's audion, and early broadcast equipment.

Collectors desiring first day cancellations may make requests to: Electronics Stamps, Postmaster, New York, New York 10001. The request should be postmarked prior to July 10 and contain the proper remittance. (Remit 40 cents.)

IEEE INTERCON '74 will be held in New York, March 26-29. The exhibition will remain at the Coliseum, while the technical sessions will be held at the Statler-Hilton. This year's trial of opening the show on Tuesday will be continued. Plans are underway to also have the show remain open on one evening. The technical sessions and meetings will be scheduled from Monday through Thursday.

COMPLETE PAPERS from this year's convention are still available for purchase. Complete list of available material and prices are printed on page 4R.

HONORS

50th ANNIVERSARY of the Mexico Section will be celebrated this year. An extensive power oriented celebration is being planned for September.

NATIONAL ACADEMY OF ENGINEERS elected 70 U.S. engineers to membership.

JOINT ENGINEERING SOCIETIES

OPEN LETTER TO THE PRESIDENT

AND THE MEMBERS OF THE 93rd CONGRESS

ON THE OCCASION OF NATIONAL ENGINEERS WEEK

February 23, 1973

The President
The White House
Washington, D. C.

Dear Mr. President:

As the United States ushers in a new era of peace, the nation's scientists and engineers salute you and bring you greetings and reaffirm our pledge of full support on the occasion of National Engineers Week.

In addition to pledging our support, we invite your attention to a pressing national need upon which the continued health and prosperity of our country depends--the need to develop a planned, sustained, and far-sighted policy for use of the nation's science and engineering resources.

Simultaneously, we offer our earnest cooperation and talents in helping to devise such a policy and in providing for its rational execution. Such a national policy in science should encompass the following goals:

1. The establishment of national programs to deal with such pressing problems as future sources of energy; providing safe, clean, efficient, economical transportation for all; improved and more economical methods of communication; delivery of adequate health care; protection of individuals and the nation from attack; and controlled use of our national and natural resources with proper regard for environmental effects and economic impact.

2. Effective mobilization of our scientific and engineering manpower. Improvement of technical training at the vocational and secondary school levels in order to insure opportunities to every segment of our population. Avoiding either an over abundance of technically trained manpower or, just as seriously, a severe shortage leading to crisis situations in the future. The nation must curb the gigantic pendulum swings of "feast or famine" which have so characterized our lack of policy for efficient use of our vast technological resources in the recent past.

3. Careful management and husbanding of all of our vital natural resources--of materials, energy and manpower--so that future generations of men can share the benefits of our technological progress.

We look upon the relationship of the government and the scientific and engineering community as a mutually beneficial partnership whereby both the general public and the members of the technological community share a common interdependence for progress and benefit.

This partnership in the past has enabled our nation to be the technological leader of the world in giving to all mankind such developments as atomic energy, the transistor, manned exploration of the moon, the computer, television and Telstar, synthetic fibres, new methods of construction of homes, offices, factories, schools, churches, roads, bridges, and tunnels, the cardiac pacemaker and other life saving devices.

We have developed laboratories and research centers in our great universities, independent research laboratories, industrial complexes, and government centers, all working in partnership to provide new technologies, products and jobs.

We have also established one of the finest educational systems, from grade school through graduate school, to produce trained minds in science, engineering, basic and applied research, and management in order to conquer ignorance and turn our many discoveries to the service of man.

But this entire complex will be of no avail unless there is a nationally formulated series of goals and objectives for men, methods, and materials to maintain proper balance between supply and demand and to insure that all of our national priorities are being adequately met.

Our societies offer their services to our nation for this task. We are confident that we can work with our President and the Congress in forging the plowshares for a century of peace from the swords we have now put aside.

(Signed by Presidents of AIAA, AIChE, ASCE, ASME, IEEE and NSPE)



Responses to the Joint Engineers Letter to the Congress and the President

White House

George Shultz, Assistant to the President
and Secretary of the Treasury

House of Representatives

Carl Albert, The Speaker	- Oklahoma
Charles E. Bennett	- Florida
John Conyers, Jr.	- Michigan
James C. Corman	- California
Harold D. Donohue	- Massachusetts
Guy Vander Jagt	- Michigan
Patsy T. Mink	- Hawaii
Richardson Preyer	- N. Carolina
Dick Shoup	- Montana
Fortney H. Stark, Jr.	- California
Roy A. Taylor	- N. Carolina
Charles Thone	- Nebraska

U. S. Senate

J. Glenn Beall, Jr.	- Maryland
Frank Church	- Idaho
Peter H. Dominick	- Colorado
Vance Hartke	- Indiana
Jesse Helms	- N. Carolina
Ernest F. Hollings	- S. Carolina
Daniel K. Inouye	- Hawaii
Warren G. Magnuson	- Washington
John L. McClellan	- Arkansas
Charles H. Percy	- Illinois
William Proxmire	- Wisconsin
John Sparkman	- Alabama
Strom Thurmond	- S. Carolina

(Editor's note - The Government Relations and Public Relations Advisory Committees recommend that you check the list of Congressmen who have responded to this letter. If yours has responded, send him a letter saying "thank you." If not, mail him a note reminding him of the letter and include the copy printed in E. E. Let your Congressman take note that you are concerned about legislative matters that effect the engineering profession.)

SPECIAL



ADDENDUM

FURTHER DEVELOPMENTS ON THE PENSION FRONT

Frank Cummings, IEEE Special Counsel

In the Senate Labor Committee. The Williams-Javits pension reform bill, S. 4, has been reported out of the Senate Labor Committee and is now on the Senate Floor Calendar awaiting action. The bill now contains two engineering amendments: a provision for government procurement regulations guaranteeing against pension forfeiture by engineers working under government contracts; and a requirement for a study, report and recommendations within one year after enactment looking toward further changes in the law to protect the pension rights of "high-mobility" employees.

The language in the Committee Report commenting on this special study to be performed by the Secretary of Labor is as follows:

"He (the Secretary of Labor) is further required to study the sufficiency of vesting provisions as applicable to workers who are engaged in high mobility services or professions such as scientists, engineers, teachers, architects and similar occupations. The innovative provisions of this bill require close observation to assure fulfillment of the legislative intent and accordingly, appropriate revisions or other necessary changes shall be incumbent upon the Secretary to initiate. The Secretary shall give high priority to recommendations regarding further legislation."

In the House Labor Committee. The companion bills pending in the House Labor Committee are still undergoing hearings, but Subcommittee Chairman John Dent is reported to have promised an Executive Session soon to begin "marking up" those bills.

At the White House. In the meantime, President Nixon has sent a special pension message to the Congress urging enactment of minimum standards of vesting, funding and fiduciary standards for pension plans, which will, hopefully, give further momentum to the pension reform movement.

The timetable for final enactment of pension legislation is still somewhat uncertain, but the 93rd Congress seems, more and more, to be the pension reform Congress.

If you have responded to the letter, please send a return card to the IEEE, 3 Park Avenue, New York, N.Y. 10017. If you have not responded, please send a return card to the IEEE, 3 Park Avenue, New York, N.Y. 10017. If you have not responded, please send a return card to the IEEE, 3 Park Avenue, New York, N.Y. 10017.



IEEE REGIONAL OUTSTANDING LECTURES TOURS

These sheets contain a complete, updated list of available speakers. Section and Chapter officers are encouraged to request visits by them or to describe a topic of interest; then a matching speaker will be sought. IEEE general funds pay travel expenses in full and other expenses as necessary within constraints of the guidelines (EE. Feb. '73, pp. 4G and 4H).

To request a speaker or for other information, contact IEEE Headquarters (Peter Edmonds, 212/752-6800 - Ext. 333). Prospective hosts should not contact the chosen speaker directly because he has been advised to expect invitations under this program from Headquarters, where itineraries will be coordinated to ensure best cost/effective use of IEEE funds. As soon as an itinerary has been set, all arrangements are turned over to host Sections. Sections outside North America receive additional notices advising them when speakers are planning to travel to their Region. After (but only after) receipt of such additional notices, prospective hosts may and should invite speakers directly.

<u>SPEAKER</u>	<u>INSTITUTION</u>	<u>TOPIC</u>
David Allen	National Bureau of Standards	NBS atomic time scale Statistics of atomic frequency standards.
Richard J. Backe	Sperry Rand	Pension plans for engineers
J. Malvern Benjamin	Bionic Instruments	"How does company loyalty affect engineering design"?
Roger W. Bolz	Consultant	Automation - management, technology and popular mythology
Joseph E. Casey	IEEE (staff)	Manpower planning, salaries and fringe benefits and career development.
Seville Chapman	N.Y. State Assembly Scientific Staff	Application of science and technology to the solution of social problems.
Ralph I. Cole	American University	Technology Forecasting & Assessment
Joel S. Engel	Bell Telephone Labs.	A high-capacity mobile telecommunications system
Arthur Goldsmith	Department of Transportation	Telecommunication aspects of transportation - air, sea and land applications.
Mark Grove	Walter Reed Hospital	Biological effects of microwave radiation.
William H. Higinbotham	Brookhaven National Lab.	Arms control Non-nuclear-proliferation treaty Nuclear material diversion safeguards.
John M. Kinn	IEEE (staff)	Employment issues for Electrical Engineers
Bernard H. Manheimer	Department of Housing & Urban Development	Technology and governance: in general and environmental aspects

F. H. Reder	U.S. Army Electronics Command	Interpretation of VLF Phase and Amplitude Data and their applications.
John A. Robinson	Syracuse University	Artificial intelligence, the problem of making computers prove theorems.
Chen-To Tai	University of Michigan	Presentation of Maxwell's equations. Diffraction; radiation in moving media.
Murray Turoff	Office of Emergency Preparedness and Newark College of Engineering	1. Technology, Forecasting & Assessment 2. Delphi methods 3. Computerized Conferencing Systems 4. Management Information Systems.
Andries van Dam (1 day trips only)	Brown University	Computer graphics and microprogramming.
Raymond M. Wilmotte	Consultant	Risk management; Technology Forecasting & Assessment
D. Weiner	Syracuse University	Mathematical modelling of non-linear systems.

The following speakers have been listed during 1972. This version supersedes previous announcements. They continue to be available in 1973-74.

<u>SPEAKER</u>	<u>INSTITUTION</u>	<u>TOPIC</u>
Prof. Norman Abramson	University of Hawaii	The ALOHA System - another alternative for computer communications.
Dr. John J. Allan	University of Texas	Digital computer control of machines. Interactive graphics for design and/or control of physical devices. Use of computers in undergraduate education.
Dr. Michael Athans	Massachusetts Institute of Technology	Optimal Control Theory and Applications. Non-linear filtering and Stochastic Control. Large scale systems
Dr. Joseph M. Biedenbach	Hershey Medical Center	Continuing Education for Engineers, utilizing multi-media presentations.
Prof. Robert R. Boorstyn	Polytechnic Institute of Brooklyn	Finite Memory Communications.
Dr. Russell Carpenter	N.E. Radiological Health Lab. USPHS	Biological effects of electromagnetic radiation.
Dr. Liborio Castriota	PRD Electronics Incorporated	Networks - current theory
Dr. Kan Chen	University of Michigan	Systems Sciences, applied to environmental and social systems
Dr. Lewis Claibourne	Texas Instruments	Applications of surface wave acoustic wave devices to communications equipment (radar, VHF, UHF, bandpass filters). Systems applications.
Mr. Warren F. Clement	Systems Technology Inc.	Theory of Manual Vehicular Control. Measuring and Control System Requirements for low visibility landing. Theory for Displays in Manual Control.
Dr. L. Stephen Coles	Stanford Research Institute	Speech Understanding Systems
Dr. Nabil Farhat	University of Pennsylvania	Microwave holography
Dr. Curt F. Fey	Xerox Corporation	National Goals, Priorities & Technology. Decision Analysis for Societal Problems.
Mr. Harold S. Field	Omni Tech Corp	Oil-well instrumentation. Instrumentation for petroleum production.
Dr. Michael Flynn	Johns Hopkins University	Micro-programming.

Dr. John Freehafer	General Railway Signal Co.	Modern Trends in Mass Transit and Personal Rapid Transit.	Mr. Robert Lucky	Bell Telephone Labs.	Data Communication.
Prof. Herbert Freeman	New York University	Computer graphics. Interactive computer graphics. Computer animation.	Dr. Herbert Matthews	Sperry Rand	Surface acoustic waves. Magnetoelastic phenomena.
Dr. Gunter Geiss	Consultant	Theory optimization - Control Theory - Ecological Systems.	Dr. Roy H. Mattson	University of Arizona	Solid State Electronics - Biomedical Engineering - Technical Education - Education
Dr. F. E. Glave	Bell Northern Research	Digital Microwave transmission systems.	Dr. Ivars Melngailis	MIT Lincoln Labs.	Diode Lasers.
Dr. Paul Green	IBM Research Laboratories	Data Communications and networks.	Dr. G. Lorimer Miller	Bell Telephone Labs.	Application of accelerator techniques to device physics: nuclear instrumentation.
Mr. William E. Harper Mr. William Moffett	Allis-Chalmers Company I-T-E Imperial Corporation	Compact, high-voltage electric power switching stations.	Mr. John J. Miller	The Bonligny Co.	General Editing Practices Editing Practices Oral Presentations.
Dr. William P. Harris (psychologist)	MIT Lincoln Lab	Automated instruction systems	Dr. Eugene Mittelmann	Consultant	Transducers - reduction from research to application.
Dr. Albert S. Hoagland	IBM Corporation	Computers, Memory and Storage Peripheral Equipment and Magnetic Recording.	Dr. Hans Oestreicher	Wright Patterson Air Force Base	Cybernetics, adaptive and learning systems.
Mr. Ivar M. Holliday	Raytheon	General Writing Practices - Technical and Business Reports, Proposals and Brochures, Specifications and Standards, Oral Presentations.	Mr. James B. Owens	I-T-E Imperial Corp.	Development in high voltage compact, electric power switching stations (not 1973)
Dr. Floyd B. Humphrey	CalTech	Flux Reversal in Magnetic Thin Films Education and Laboratory Practice - application to Solid State Labs.	Mr. John C. Redmond	General Dynamics	Federal Air Pollution - Law and Effects on Electronics Industry.
Dr. Alan R. Kahn	Medtronic Inc.	Biomedical Instrumentation	Mr. Daniel M. Rosen	Consultant	Patents and licencing
Dr. Stephen J. Kahne	University of Minnesota	Trends in Automatic Control Education - Systems Engineering applied to Environmental Design.	Dr. Joseph E. Rowe	University of Michigan	Microwave solid-state devices - Computer Simulation of beam plasma systems, Microwave tubes.
Mr. James N. Kilpatrick	Westinghouse	General Writing and Editing Practices Oral Presentations.	Dr. Raphael J. Salamon	Rutgers University	Health Care Delivery.
Dr. Richard T. Lacoss	Massachusetts Institute of Technology	Seismic Data Processing	Dr. Heinz M. Schlicke	Allen Bradley Company	Filtering for Electromagnetic Compatibility-Mismatching - Realistic Filtering performance for highly mismatched system - Power line transmission, D.C. to microwave.
Dr. Emmett Leith	University of Michigan	Holography	Professor William P. Schneider	University of Houston	Deep Ocean Exploration (Glomar Challenger)
Dr. Benjamin J. Leon	Purdue University	Digital Filtering.	Prof. Mischa Schwartz	Polytechnic Institute of Brooklyn	Digital Data Network - Urban Systems Analysis - Adaptive techniques for Equalization.
Dr. Samuel Levine	Consultant	CRT display systems for computers. On-line computing systems, for stock market applications.			
Mr. Peter Lloyd	Bell Telephone Labs	Piezoelectric devices: Monolithic crystal filters.			

Dr. H. J. Shaw	Stanford University	Surface acoustic wave devices for communication and data processing
Dr. James Snodgrass	Scripps Institute for Oceanography	Oceanographic Instrumentation data gathering, satellite navigation frequency allocation for oceanography, engineering aspects -biomedical instrumentation.
W. D. Spencer, M.D.	Texas Institute for Rehabilitation and Research	Information systems in hospitals - Technology and Health Services - Hardware and Software Electronic Applications for prosthetics.
Prof. George Szentirmai	Cornell University	Computer-aided Design of Circuits and Filters.
Prof. Gabor C. Temes	University of California	Computer-aided Synthesis of Filters - Recent results in Sensitivity analysis and Optimization of Circuits - New results in the Time-Domain Design of Circuits.
Mr. William von Alven	Consultant	General Systems Technology, General Applications.
Dr. C. G. Walter	Ohio State Research Foundation	New developments in antennas
Dr. John Zaborsky	Washington University	Control Systems - Controllability and Observability of Bilinear Systems - Inductive Approach to Estimation and Filtering-Singular Arcs in Discrete Systems.

TRANSNATIONAL ASPECTS

There is a continuing need for advance information on travel plans of potential speakers going to or coming from other countries, so that IEEE Sections can be notified in sufficient time to schedule a meeting compatible with the speaker's itinerary, announce it and assemble an audience. Information (even if tentative) should be sent to Peter Edmonds three months in advance of departure. A proven mechanism exists for arranging engagements in Europe. Interest in receiving speakers has been expressed by IEEE Sections in Hong Kong, India, New Zealand, Australia, Japan and South America.



To: Readers of Electrical Engineering

From: Robert M. Saunders, Chairman
IEEE Educational Activities Committee

A special ad hoc committee of technicians and technologists is being formed at the request of the Executive Committee of IEEE. The charge to the committee is as follows:

Identify the issues with respect to technicians and technologists, examine possible solutions to problems identified, and make recommendations for implementation by the IEEE in the following areas:

1. Membership
2. Services provided by entities of the Technical Activities Board, the Regional Activities Board, and the Publications Board of the Institute
3. Identify the economic status, employment patterns, and opportunities for the future in the economy
4. Education related service.

To properly identify all of the issues involving technicians and technologists, the committee must have members from a wide variety of backgrounds (i.e. industry, educational, etc.). If you have an involvement with this issue and are willing to serve on this committee, please contact Mr. Jack Kinn, IEEE Headquarters, 345 East 47th Street, New York, N. Y. 10017. Please call him if you have any further questions with regard to the functions of this committee.

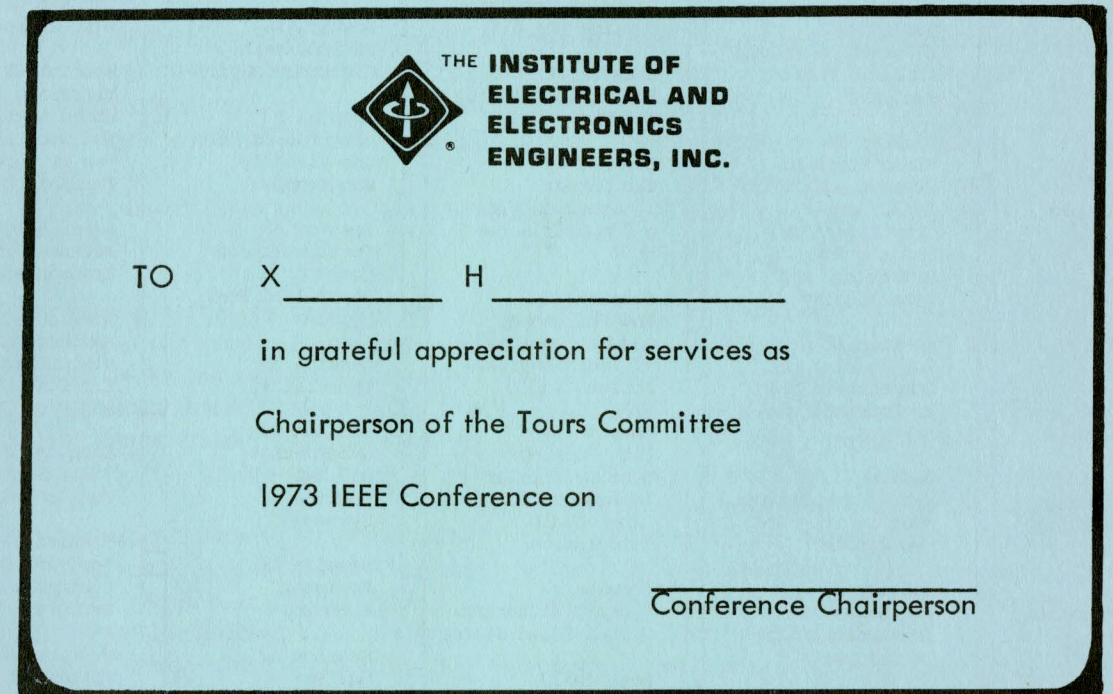
Recognition of IEEE Service

We have available for recognition presentations the IEEE certificates or heavy bronze plaques.

IEEE certificates (with IEEE seal & heading)
\$3.50 + \$1.00 per line lettering, \$25.00 maximum

Bronze plaques (mounted on walnut)
10 x 13-inch - \$125.00, 10 x 26-inch - \$175.00

It has seemed desirable to increase the number of choices for recognition presentations at this time. Through the good offices of the AES Society, we now offer a transparent plastic slab. It is 4 x 6 x 3/4-inch, with a 1/8-inch black backing base. This becomes a personalized paper weight by means of a suitably inscribed paper insert, such as the following, shown actual size:



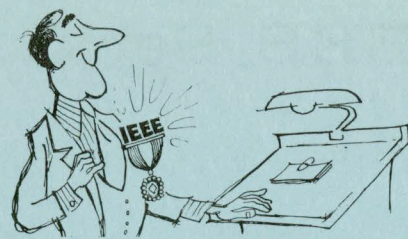
The paper weight set, with mounting pins, blank insert, and gift box is priced:

With inscription.....\$12.00 + postage
Without inscription..... 5.00 + postage

(Note: First class postage in USA - \$0.96; the set, ready for mailing, weighs 12 oz., in the event you wish to use air-mail rather than first class postage.)

The paper weight kit may be purchased by sending your order to the following address:

The Institute of Electrical and Electronics Engineers
Technical Activities Department
345 East 47th Street
New York, New York 10017



For the first time copies of complete papers are now available in three forms: individual session preprints, (eight) subject area volumes, and a case bound volume of all papers.

1. Individual Session Preprints.

Session 1 Progress in Solid State Imaging	*Session 12 Communication Satellite System Applications - Extending Our Horizons	Session 21 Implementing Random Logic with Microprocessors	Session 34 New Developments in Signal Generators	Session 43 Numeric and Alpha-Numeric Displays for Instruments
*Session 2 Semiconductor Main Frame Memories	Session 13 Energy Storage	*Session 23 LSI - MOS Circuits	Session 35 Technology Assessment and Applications	Session 45 Program Generation for Automatic Test Equipment
*Session 3 Precision Marketing/Can Computers Help?	Session 14 Information Theory After 25 Years Synopsis	Session 25 State of Computing Outside the U.S.	Session 36 Environmental Electroacoustics	Session 48 Microwave Solid - State Amplifiers and Oscillators - Two or Three Terminal Devices
*Session 4 Computers in Public Systems	*Session 16 Video Storage; Present and Future Impact on Communications, Information Retrieval, and Data Display	Session 26 Projection Display Systems	Session 37 Electronics for the Visually Handicapped	Session 49 Advances in Transducer Design
Session 5 Satellite Multiple Access - The Key to Effective Utilization	*Session 17 Maintaining the Competitive Edge in International Markets	Session 27 Can Direct Interaction With a Computer Serve You?	Session 38 Instruments for Computer - Controlled Test Systems	Session 50 Advanced Micro-electronic Packaging for Cost, Reliability and Field Service
Session 6 Prospecting for Energy	Session 18 Hybrid Simulation: What is it - and How Viable?	Session 28 The Philosophy and Methodology of Technological Forecasting	*Session 39 Television	Session 51 Solid State for Consumer Electronics
*Session 7 Optical Computing	Session 19 Bus Organized Interconnection Techniques	Session 30 High Packing Density Bipolar Technology for Large Scale Integration	Session 40 Cybernetics and Man - Machine Systems	*Session 52 Applying Computer - Controlled Test Systems
*Session 8 Computer Application in the Manufacturing Environment	Session 20 Power System Control	*Session 32 Electro-Mechanical Versus Solid State	Session 41 Resistor Trimming	*Session 54 Automated Machine Control Technology
Session 10 Interior Information Transfer - An Application of Multiplexing		Session 33 Matrix Displays	Session 42 Surface Acoustic Wave Devices in Real Systems	Session 55 MIC's in Instrumentation
*Session 11 The Evolution of Large Government Computing Systems				

* \$1.00 each; others \$2.50 each.

Total: _____

2. Subject Area Volumes.

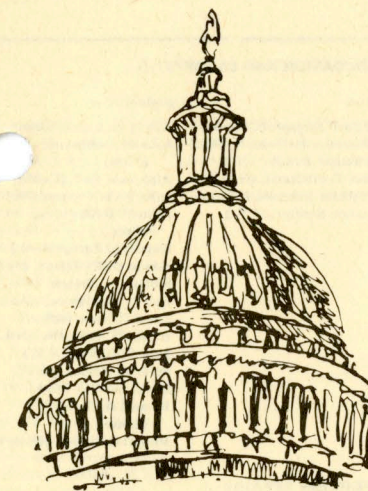
<input type="checkbox"/> Volume 1 - Computers and Information	\$8.00	<input type="checkbox"/> Volume 5 - Electro-Optical Technology	\$ 8.00
<input type="checkbox"/> Volume 2 - Communications and Data Transmission	8.00	<input type="checkbox"/> Volume 6 - Solid State	12.00
<input type="checkbox"/> Volume 3 - Energy Utilization and Control	8.00	<input type="checkbox"/> Volume 7 - Marketing	4.00
<input type="checkbox"/> Volume 4 - Electro-Mechanical Technology	8.00	<input type="checkbox"/> Volume 8 - Instruments and Instrumentation	8.00

Total: _____

3. Case Bound Volume \$80.00.

Total: _____

Check items desired and return form with check or purchase order to IEEE Order Department, 345 East 47th Street, New York, N. Y. 10017.



A LETTERWRITER'S GUIDE TO CONGRESS

93rd Congress 1st Session

Today's Congressional work schedule no longer permits the frequent and extended visits back home that used to keep Members of Congress in close personal touch with their constituents. As a result, letters from back home have come to be the main form of voter contact with their legislators—and the prime source of constituency views.

Writing an effective letter to your Senators or Representative is easy. Here are a few guidelines:

Write on your personal or business letterhead, if possible, and sign your name over your typed signature at the end of your message.

Be sure your exact return address is on the letter, not just the envelope. Envelopes sometimes get thrown away before the letter is answered.

Identify your subject clearly. State the name of the legislation you're writing about. Give the House or Senate bill number, if you know it.

State your reason for writing. Your own personal experience is your best supporting evidence. Explain how the issue would affect you, or your family, your business or profession—or what effect it could have on your state or community.

Avoid stereotyped phrases and sentences that give the appearance of "form" letters. They tend to identify your message as part of an organized pressure campaign—and produce little or no impact.

Be reasonable. Don't ask for the impossible.

Don't threaten. Don't say, "I'll never vote for you unless you do such and such." That won't help your cause, but may harm it.

Ask him to state his position in his reply. As his constituent, you're entitled to know.

The **timing** of your letter is **important**. Begin to encourage approval or disapproval of a bill, or to recommend that it be amended favorably, **while it is in committee**. Your Representative and Senators usually can be more responsive to your appeal at that time, than after a bill has already been approved by a committee. Of course, this isn't always the case. Sometimes your legislator may reserve his judgment—and his vote—until the sentiment of his constituency has crystallized.

Thank him, if he pleases you with his vote on an issue. Everybody appreciates a complimentary letter, and remembers it. Congressmen are no exception. **But if he votes contrary** to your position, don't hesitate to **let him know**. He will remember that, too.

HOUSE COMMITTEES

AGRICULTURE

Democrats
W. R. Poage, (Tex.),
Chairman
Frank A. Stubblefield,
(Ky.)
Thomas S. Foley, (Wash.)
Eligio de la Garza,
(Tex.)
Joseph P. Vigorito, (Pa.)
Walter B. Jones, (N.C.)
B. F. Sisk, (Calif.)
Bill Alexander, (Ark.)
John R. Rarick, (La.)
Ed Jones, (Tenn.)
John Melcher, (Mont.)
Dawson Mathis, (Ga.)
Bob Bergland, (Minn.)
Frank E. Denholm, (S. Dak.)
Spark M. Matsunaga, (Hawaii)
George E. Brown, Jr.,
(Calif.)

Republicans
Charles M. Teague,
(Calif.)
William C. Wampler, (Va.)
George A. Goodling, (Pa.)
Robert B. Mathias,
(Calif.)
Wiley Mayne, (Iowa)
John Zwach, (Minn.)
Robert D. Price, (Tex.)
Keith G. Sebelius, (Kans.)
Wilmer D. Mizel, (N.C.)
Paul Findley, (Ill.)
LaMar Baker, (Tenn.)
Charles Thone, (Neb.)
Steven D. Symms,
(Idaho)
Edward Young, (S.C.)
James P. Johnson, (Colo.)
Edward R. Madigan,
(Ill.)

APPROPRIATIONS

Democrats
George H. Mahon, (Tex.),
Chairman
Jamie L. Whitten, (Miss.)
John J. Rooney, (N.Y.)
Robert L. F. Sikes,
(Fla.)
Otto E. Passman, (La.)
Joe L. Evin, (Tenn.)
Edward P. Boland, (Mass.)
William H. Natcher, (Ky.)
Daniel J. Flood, (Pa.)
Tom Steed, (Okla.)
George E. Shipley, (Ill.)
John M. Slack, Jr.,
(W. Va.)
John J. Flynt, Jr., (Ga.)
Neal Smith, (Iowa)
Robert N. Giaimo, (Conn.)
Julia Butler Hansen,
(Wash.)
Joseph P. Addabbo, (N.Y.)
John J. McFall, (Calif.)
Edward J. Patten, (N.J.)
Clarence D. Long, (Md.)
Sidney R. Yates, (Ill.)
Bob Casey, (Tex.)

Republicans
Frank E. Evans, (Colo.)
David R. Obey, (Wis.)
Edward R. Roybal, (Calif.)
Louis Stokes, (Ohio)
J. Edward Roush, (Ind.)
K. Gunn McKay, (Utah)
Tom Bevill, (Ala.)
Edith Green, (Oreg.)
Robert O. Tiernan, (R.I.)
Bill Chappel, Jr., (Fla.)
Bill D. Burlison, (Mo.)
Garner E. Shriver, (Kans.)
Joseph M. McDade, (Pa.)
Mark Andrews, (N. Dak.)
Louis C. Wyman, (N.H.)
Burt L. Talcott, (Calif.)
Wendell Wyatt, (Oreg.)
Jack Edwards, (Ala.)
William J. Scherle,
(Iowa)
Robert C. McEwen, (N.Y.)
John T. Myers, (Ind.)
J. Kenneth Robinson, (Va.)
Clarence E. Miller,
(Ohio)
Earl B. Ruth, (N.C.)
Victor V. Veyssey,
(Calif.)

ARMED SERVICES

Democrats
F. Edward Hebert, (La.),
Chairman
Melvin Price, (Ill.)
O. C. Fisher, (Tex.)
Charles E. Bennett,
(Fla.)
Samuel S. Stratton,
(N.Y.)
Otis G. Pike, (N.Y.)
Richard H. Ichord,
(Mo.)
Lucien N. Nedzi, (Mich.)
William J. Randall, (Mo.)
Charles H. Wilson, (Calif.)
Robert L. Leggett, (Calif.)
Floyd V. Hicks, (Wash.)
Richard C. White, (Tex.)
Bill Nichols, (Ala.)
Jack Brinkley, (Ga.)
Robert H. Mollohan,
(W. Va.)
W. C. Daniel, (Va.)
G. V. (Sonny) Montgomery, (Miss.)

Republicans
Harold L. Runnels,
(N. Mex.)
Les Aspin, (Wis.)
Ronald V. Dellums,
(Calif.)
Mendel J. Davis, (S.C.)
James R. Jones, (Okla.)
Patricia Schroeder, (Colo.)
William G. Bray, (Ind.)
Leslie C. Arends, (Ill.)
Bob Wilson, (Calif.)
Charles S. Gubser, (Calif.)
Carleton J. King, (N.Y.)
William L. Dickinson, (Ala.)
John E. Hunt, (N.J.)
G. William Whitehurst,
(Va.)
C. W. Bill Young, (Fla.)
Floyd Spence, (S.C.)
Walter E. Powell, (Ohio)
Robert Price, (Tex.)
David C. Treen, (La.)
William L. Armstrong,
(Colo.)
George M. O'Brien, (Ill.)
Robin L. Beard, (Tenn.)
Donald J. Mitchell,
(N.Y.)
Marjorie S. Holt, (Md.)
Robert W. Daniel, Jr.,
(Va.)

BANKING AND CURRENCY

Democrats
Wright Patman, (Tex.),
Chairman
William A. Barrett, (Pa.)
Leonor K. (Mrs. John B.)
Sullivan, (Mo.)
Henry S. Reuss, (Wis.)
Thomas L. Ashley, (Ohio)
William S. Moorhead, (Pa.)
Robert G. Stephens, Jr.,
(Ga.)
Fernand J. St. Germain,
(R.I.)
Henry B. Gonzalez, (Tex.)
Joseph G. Minish, (N.J.)
Richard T. Hanna,
(Calif.)
Tom S. Gettys, (S.C.)
Frank Annunzio, (Ill.)
Thomas M. Rees, (Calif.)
James M. Hanley, (N.Y.)
Frank J. Brasco, (N.Y.)
Edward I. Koch, (N.Y.)

Republicans
William R. Cotter,
(Conn.)
Parren J. Mitchell, (Md.)
Walter E. Fauntroy,
(D.C.)
Andrew Young, (Ga.)
John J. Moakley,
(Mass.)
Fortney H. (Pete) Stark,
(Calif.)
Lindy (Mrs. Hale) Boggs
(La.)
William B. Widnall, (N.J.)
Albert W. Johnson, (Pa.)
J. William Stanton, (Ohio)
Benjamin B. Blackburn,
(Ga.)
Garry E. Brown, (Mich.)
Lawrence G. Williams,
(Pa.)
Chalmers P. Wylie, (Ohio)
Margaret M. Heckler,
(Mass.)
Philip M. Crane, (Ill.)
John H. Roussetot,
(Calif.)
Stewart B. McKinney,
(Conn.)
Bill Frenzel, (Minn.)
Angelo D. Roncalio, (N.Y.)
John B. Conlan, (Ariz.)
Clair W. Burgener,
(Calif.)
Matthew J. Rinaldo, (N.J.)

EDUCATION AND LABOR

Democrats
Carl D. Perkins, (Ky.),
Chairman
Frank Thompson, Jr.,
(N.J.)
John H. Dent, (Pa.)
Dominick V. Daniels,
(N.J.)
John Brademas, (Ind.)
James G. O'Hara, (Mich.)
Augustus F. Hawkins,
(Calif.)
William D. Ford, (Mich.)
Patsy T. Mink, (Hawaii)
Lloyd Meeds, (Wash.)
Phillip Burton, (Calif.)
Joseph M. Gaydos, (Pa.)
William Clay, (Mo.)
Shirley Chisholm, (N.Y.)
Mario Biaggi, (N.Y.)

Republicans
Ella T. Grasso, (Conn.)
Romano L. Mazzoli, (Ky.)
Herman Badillo, (N.Y.)
Ike F. Andrews, (N.C.)
William Lehman, (Fla.)
Jaime Benitez, (P.R.)
Albert H. Quie, (Minn.)
John M. Ashbrook,
(Ohio)
Alphonzo Bell, (Calif.)
John N. Erlenborn, (Ill.)
John R. Dellenback,
(Oreg.)
Marvin L. Esch, (Mich.)
Edwin D. Eshleman, (Pa.)
William A. Steiger, (Wis.)
Earl F. Landgrebe, (Ind.)
Orval Hansen, (Idaho)
Edwin B. Forsythe, (N.J.)
Jack F. Kemp, (N.Y.)
Peter A. Peyser, (N.Y.)
Joseph M. Gaydos, (Pa.)
Ronald A. Sarasin,
(Conn.)
Robert J. Huber, (Mich.)

FOREIGN AFFAIRS

Democrats
Thomas E. Morgan, (Pa.),
Chairman
Clement J. Zablocki,
(Wis.)
Wayne L. Hays, (Ohio)
L. H. Fountain, (N.C.)
Dante B. Fascell, (Fla.)
Charles C. Diggs, Jr.,
(Mich.)
Robert N. C. Nix, (Pa.)
Joseph M. McDade, (Pa.)
Benjamin S. Rosenthal,
(N.Y.)
John C. Culver, (Iowa)
Lee H. Hamilton, (Ind.)
Abraham Kazen, (Tex.)
Lester Wolff, (N.Y.)
Jonathan B. Bingham, (N.Y.)
Gus Yatron, (Pa.)
Roy A. Taylor, (N.C.)
John W. Davis, (Ga.)
Ogden R. Reid, (N.Y.)
Michael Harrington,
(Mass.)

Republicans
Leo J. Ryan, (Calif.)
Charles Wilson, (Tex.)
Donald W. Riegle, Jr.,
(Mich.)
Williard S. Mailliard,
(Calif.)
Peter H. B. Frelinghuysen,
(N.J.)
William S. Broomfield,
(Mich.)
H. R. Gross, (Iowa)
Edward J. Derwinski, (Ill.)
Vernon W. Thomson, (Wis.)
Paul Findley, (Ill.)
John Buchanan, (Ala.)
J. Herbert Burke, (Fla.)
Guy Vander Jagt, (Mich.)
Robert H. Steele, (Conn.)
Pierre S. duPont IV,
(Del.)
Charles W. Whalen, (Ohio)
Robert B. (Bob) Mathias,
(Calif.)
Edward G. Biester, Jr.,
(Pa.)
Larry Winn, Jr., (Kans.)
Benjamin A. Gilman,
(N.Y.)
Tennyson Guyer, (Ohio)

GOVERNMENT OPERATIONS

Democrats
Chet Holifield, (Calif.),
Chairman
Jack Brooks, (Tex.)
L. H. Fountain, (N.C.)
Robert E. Jones, (Ala.)
John E. Moss, (Calif.)
Dante B. Fascell, (Fla.)
Henry S. Reuss, (Wis.)
Torbert H. Macdonald,
(Mass.)
William S. Moorhead,
(Pa.)
William J. Randall, (Mo.)
Benjamin S. Rosenthal,
(N.Y.)
Jim Wright, (Tex.)
Fernand J. St. Germain,
(R.I.)
John C. Culver, (Iowa)
Floyd V. Hicks, (Wash.)
Don Fuqua, (Fla.)
John Conyers, Jr., (Mich.)

Republicans
Bill Alexander, (Ark.)
Bella S. Abzug, (N.Y.)
Harold D. Donohue,
(Mass.)
James V. Stanton, (Ohio)
Leo J. Ryan, (Calif.)
Frank Horton, (N.Y.)
John N. Erlenborn, (Ill.)
John W. Wylder, (N.Y.)
Clarence J. Brown, Jr.,
(Ohio)
Guy Vander Jagt, (Mich.)
Gilbert Gude, (Md.)
Paul N. McCloskey,
(Calif.)
John H. Buchanan, Jr.,
(Ala.)
Sam Steiger, (Ariz.)
Garry Brown, (Mich.)
Charles Thone, (Neb.)
Richard W. Mallary, (Vt.)
Stanford E. Parris, (Va.)
Ralph S. Regula, (Ohio)
Andrew J. Hinshaw, (Calif.)
Alan Steelman, (Tex.)
Joel M. Pritchard,
(Wash.)
Robert P. Hanrahan, (Ill.)

INTERIOR AND INSULAR AFFAIRS

Democrats
James A. Haley, (Fla.),
Chairman
Roy A. Taylor, (N.C.)
Harold T. Johnson,
(Calif.)
Morris K. Udall, (Ariz.)
Phillip Burton, (Calif.)
Thomas S. Foley, (Wash.)
Robert W. Kastenmeier,
(Wis.)
James G. O'Hara, (Mich.)
Patsy T. Mink, (Hawaii)
Lloyd Meeds, (Wash.)
Abraham Kazen, (Tex.)
Robert G. Stephens, Jr.,
(Ga.)
Joseph P. Vigorito, (Pa.)
John Melcher, (Mont.)
Teno Roncalio, (Wyo.)
Johathan B. Bingham,
(N.Y.)

Republicans
John F. Seiberling, Jr.,
(Ohio)
Harold Runnels, (N. Mex.)
Yvonne Brathwaite Burke,
(Calif.)
Antonio Borja Won Pat,
(Guam)
Wayne Owens, (Utah)
Ron de Lugo, (V.I.)
James R. Jones, (Okla.)
John P. Saylor, (Pa.)
Craig Hosmer, (Calif.)
Joe Skubitz, (Kans.)
Sam Steiger, (Ariz.)
Don H. Clausen, (Calif.)
Philip E. Ruppe, (Mich.)
John N. Happy Camp,
(Okla.)
Manuel Lujan, (N. Mex.)
John Dellenback, (Oreg.)
Keith G. Sebelius,
(Kans.)
Ralph S. Regula, (Ohio)
Alan Steelman, (Tex.)
Joseph J. Maraziti, (N.Y.)
David Towell, (Nev.)
James G. Martin, (N.C.)
William M. Ketchum,
(Calif.)
Paul W. Cronin, (Mass.)
Don Young (Alaska)

INTERSTATE AND FOREIGN COMMERCE

Democrats
Harley O. Staggers,
(Va.), *Chairman*
Frank H. Macdonald,
(Mass.)
John Jarman, (Okla.)
John E. Moss, (Calif.)
John D. Dingell, (Mich.)
Paul G. Rogers, (Fla.)
Lionel Van Deerlin,
(Calif.)
J. J. Pickle, (Tex.)
Fred B. Rooney, (Pa.)
John M. Murphy, (N.Y.)
D. E. Satterfield, III,
(Va.)
Brock Adams, (Wash.)
W. S. Stuckey, (Ga.)
Peter N. Kyros, (Maine)
Bob Eckhardt, (Tex.)
Richardson Preyer, (N.C.)
Bertram L. Podell, (N.Y.)
Henry Helstoski, (N.J.)
James W. Symington, (Mo.)

Republicans
Charles J. Carney, (Ohio)
Ralph H. Metcalfe, (Ill.)
Goodloe E. Byron, (Md.)
William R. Roy, (Kans.)
John Breckinridge, (Ky.)
Samuel L. Devine, (Ohio)
Ancher Nelsen, (Minn.)
James T. Broyhill, (N.C.)
James Harvey, (Mich.)
Tim Lee Carter, (Ky.)
Clarence J. Brown, Jr.,
(Ohio)
Dan Kuykendall, (Tenn.)
Joe Skubitz, (Kans.)
James F. Hastings, (N.Y.)
James M. Collins, (Tex.)
Louis Frey, Jr., (Fla.)
John Ware, (Pa.)
John Y. McCollister,
(Neb.)
Richard G. Shoup, (Mont.)
Barry M. Goldwater, Jr.,
(Calif.)
Norman F. Lent, (N.Y.)
H. John Heinz, III, (Pa.)
William H. Hudnut, III,
(Ind.)
Samuel H. Young, (Ill.)

JUDICIARY

Democrats
Peter W. Rodino, Jr.,
(N.J.), *Chairman*
Harold D. Donohue,
(Mass.)
Jack Brooks, (Tex.)
Robert W. Kastenmeier,
(Wis.)
Don Edwards, (Calif.)
William L. Hungate, (Mo.)
John Conyers, Jr., (Mich.)
Joshua Eilberg, (Pa.)
Jerome R. Waldie, (Calif.)
Walter Flowers, (Ala.)
James R. Mann, (S.C.)
Paul S. Sarbanes, (Md.)
John F. Seiberling, Jr.,
(Ohio)
George E. Danielson,
(Calif.)
Robert F. Drinan, (Mass.)

Republicans
Edward Hutchinson, (Mich.)
Robert McClory, (Ill.)
Henry P. Smith, III, (N.Y.)
Charles W. Sandman, Jr.,
(N.J.)
Thomas F. Railsback, (Ill.)
Charles E. Wiggins, (Calif.)
David W. Dennis, (Ind.)
Hamilton Fish, Jr., (N.Y.)
Lawrence Coughlin, (Pa.)
Wiley Mayne, (Iowa)
Lawrence J. Hogan, (Md.)
William J. Keating, (Ohio)
M. Caldwell Butler, (Va.)
William S. Cohen, (Me.)
Trent Lott, (Miss.)
Harold V. Froehlich,
(Wis.)
Carlos J. Moorhead,
(Calif.)

MERCHANT MARINE AND FISHERIES

Democrats
Leonor K. (Mrs. John B.)
Sullivan, (Mo.)
Chairman
Frank M. Clark, (Pa.)
Thomas L. Ashley, (Ohio)
John D. Dingell, (Mich.)
Thomas N. Downing, (Va.)
Paul G. Rogers, (Fla.)
Frank A. Stubblefield,
(Ky.)
John M. Murphy, (N.Y.)
Walter B. Jones, (N.C.)
Robert L. Leggett, (Calif.)
Mario Biaggi, (N.Y.)
Richard W. Anderson, (Calif.)
Eligio de la Garza, (Tex.)
Peter N. Kyros, (Me.)
Ralph H. Metcalfe, (Ill.)
John B.reaux, (La.)
Fred B. Rooney, (Pa.)
Bob Eckhardt, (Tex.)

Republicans
Paul S. Sarbanes, (Md.)
Bo Ginn, (Ga.)
Gerry E. Studds, (Mass.)
David R. Bowen, (Miss.)
James R. Grover, Jr., (N.Y.)
William S. Mailliard,
(Calif.)
Charles A. Mosher, (Ohio)
Philip E. Ruppe, (Mich.)
George A. Goodling, (Pa.)
Paul N. McCloskey, Jr.,
(Calif.)
M. G. (Gene) Snyder,
(Ky.)
Robert H. Steele, (Conn.)
Edwin B. Forsythe, (N.J.)
Pierre S. duPont, IV,
(Del.)
William O. Mills, (Md.)
William S. Cohen, (Me.)
Trent Lott, (Miss.)
David C. Treen, (La.)
Joel M. Pritchard,
(Wash.)
Edward Young, (Fla.)
Don Young (Alaska)

POST OFFICE AND CIVIL SERVICE

Democrats
Thaddeus J. Dulski,
(N.Y.), *Chairman*
David N. Henderson,
(N.C.)
Morris K. Udall, (Ariz.)
Dominick V. Daniels,
(N.J.)
Robert N. C. Nix, (Pa.)
James M. Hanley, (N.Y.)
Charles H. Wilson,
(Calif.)
Jerome R. Waldie, (Calif.)
Richard C. White, (Tex.)
m D. Ford, (Mich.)

Republicans
Frank J. Brasco, (N.Y.)
William Clay, (Mo.)
Patricia Schroeder,
(Colo.)
John J. Moakley,
(Mass.)
William Lehman, (Fla.)
H. R. Gross, (Iowa)
Edward J. Derwinski, (Ill.)
Albert W. Johnson, (Pa.)
Lawrence J. Hogan, (Md.)
John H. Roussetot,
(Calif.)
Elwood H. Hillis, (Ind.)
Walter E. Powell, (Ohio)
William O. Mills, (Md.)
Richard W. Mallary, (Vt.)
Andrew J. Hinshaw,
(Calif.)
L. A. (Skip) Bafalis,
(Fla.)

PUBLIC WORKS

Democrats
John A. Blatnik, (Minn.),
Chairman
Robert E. Jones, (Ala.)
John C. Kluczynski,
(Ill.)
Jim Wright, (Tex.)
Kenneth J. Gray, (Ill.)
Frank M. Clark, (Pa.)
Harold T. Johnson,
(Calif.)
W. J. Bryan Dorn, (S.C.)
David N. Henderson,
(N.C.)
Ray Roberts, (Tex.)
James J. Howard, (N.J.)
Glenn M. Anderson, (Calif.)
Teno Roncalio, (Wyo.)
Mike McCormack, (Wash.)
James V. Stanton, (Ohio)
Bella S. Abzug, (N.Y.)

Republicans
John B.reaux, (La.)
Gerry E. Studds, (Mass.)
Yvonne Brathwaite Burke,
(Calif.)
Bo Ginn, (Ga.)
Dale Milford, (Tex.)
William H. Harsha, (Ohio)
James R. Grover, Jr.,
(N.Y.)
James C. Cleveland, (N.H.)
Don H. Clausen, (Calif.)
M. G. (Gene) Synder, (Ky.)
Roger H. Zion, (Ind.)
John Paul Hammerschmidt,
(Ark.)
Wilmer Mizell, (N.C.)
La Mar Baker, (Tenn.)
E.G. Shuster, (Pa.)
William F. Walsh, (N.Y.)
Thad Cochran, (Miss.)
L.A. (Skip) Bafalis,
(Fla.)
James Abdnor,
(S. Dak.)
kobert P. Hanrahan,
(Ill.)
Gene Taylor, (Mo.)

RULES

Democrats
Ray J. Madden, (Ind.)
Chairman
James J. Delaney, (N.Y.)
Richard Bolling, (Mo.)
B. F. Sisk, (Calif.)

Republicans
John Young, (Tex.)
Claude Pepper, (Fla.)
Spark M. Matsunaga, (Hawaii)
Morgan F. Murphy, (Ill.)
Gillis W. Long, (La.)
Clem Rogers McSpadden,
(Okla.)

SCIENCE AND ASTRONAUTICS

Democrats
Olin E. Teague, (Tex.),
Chairman
Ken Hechler, (W. Va.)
John W. Davis, (Ga.)
Thomas N. Downing, (Va.)
Don Fuqua, (Fla.)
James W. Symington, (Mo.)
Richard T. Hanna, (Calif.)
Walter Flowers, (Ala.)
Robert A. Roe, (N.J.)
William R. Cotter,
(Conn.)
Mike McCormack, (Wash.)
Bob Bergland, (Minn.)
J.J. Pickle, (Tex.)
George E. Brown, Jr.,
(Calif.)

Republicans
Charles A. Mosher, (Ohio)
Alphonzo Bell, (Calif.)
John W. Wylder, (N.Y.)
Larry Winn, Jr., (Kans.)
Louis Frey, Jr., (Fla.)
Barry M. Goldwater, Jr.,
(Calif.)
Marvin L. Esch, (Mich.)
Lawrence Coughlin,
(Pa.)
John N. Happy Camp,
(Okla.)
John B. Conlan, (Ariz.)
Stanford E. Parris, (Va.)
Paul W. Cronin, (Mass.)
James G. Martin, (N.C.)

WAYS AND MEANS

Democrats
Wilbur D. Mills, (Ark.),
Chairman
Al Ullman, (Oreg.)
James A. Burke, (Mass.)
Martha W. Griffiths,
(Mich.)
Dan Rostenkowski, (Ill.)
Phil M. Landrum, (Ga.)
Charles A. Vanik, (Ohio)
Richard H. Fulton, (Tenn.)
Omar Burleson, (Tex.)
James C. Corman, (Calif.)
William J. Green, (Pa.)
Sam Gibbons, (Fla.)
Hugh L. Carey, (N.Y.)

Republicans
Herman T. Schneebeli,
(Pa.)
Harold R. Collier, (Ill.)
Joel T. Broyhill, (Va.)
Barber B. Conable, Jr.,
(N.Y.)
Charles E. Chamberlain,
(Mich.)
Jerry L. Pettis, (Calif.)
John J. Duncan, (Tenn.)
Donald G. Brotzman,
(Colo.)
Donald D. Clancy,
(Ohio)
Bill Archer, (Tex.)

Suggested Addresses, Salutations in Letters to Congress

Honorable John Doe
United States Senate
Washington, D.C. 20510

Dear Senator Doe:

Honorable John Doe
House of Representatives
Washington, D.C. 20515

Dear Mr. Doe:

SENATE COMMITTEES

AERONAUTICAL AND SPACE SCIENCES

Democrats
 Frank E. Moss, (Utah),
Chairman
 Warren G. Magnuson,
 (Wash.)
 Stuart Symington, (Mo.)
 John C. Stennis, (Miss.)
 Howard W. Cannon, (Nev.)
 James Abourezk, (S. Dak.)
 Floyd K. Haskell, (Colo.)

Republicans
 Barry Goldwater, (Ariz.)
 Carl T. Curtis, (Neb.)
 Lowell P. Weicker, Jr.,
 (Conn.)
 Dewey F. Bartlett, (Okla.)
 Jesse A. Helms, (N.C.)
 Pete V. Domenici, (N. Mex.)

AGRICULTURE & FORESTRY

Democrats
 Herman E. Talmadge, (Ga.),
Chairman
 James O. Eastland, (Miss.)
 George McGovern, (S. Dak.)
 James B. Allen, (Ala.)
 Hubert H. Humphrey, (Minn.)
 Walter Huddleston, (Ky.)
 Dick Clark, (Iowa)

Republicans
 Carl T. Curtis, (Neb.)
 George D. Aiken, (Vt.)
 Milton R. Young,
 (N. Dak.)
 Robert J. Dole, (Kans.)
 Henry Bellmon, (Okla.)
 Jesse A. Helms, (N.C.)

APPROPRIATIONS

Democrats
 John L. McClellan, (Ark.)
Chairman
 Warren G. Magnuson,
 (Wash.)
 John C. Stennis, (Miss.)
 John O. Pastore, (R.I.)
 Alan Bible, (Nev.)
 Robert C. Byrd, (W. Va.)
 Gale W. McGee, (Wyo.)
 Mike Mansfield, (Mont.)
 William Proxmire, (Wis.)
 Joseph M. Montoya, (N. Mex.)
 Daniel K. Inouye,
 (Hawaii)
 Ernest F. Hollings, (S.C.)
 Birch Bayh, (Ind.)
 Thomas F. Eagleton, (Mo.)
 Lawton Chiles, (Fla.)

Republicans
 Milton R. Young, (N. Dak.)
 Roman L. Hruska, (Neb.)
 Norris Cotton, (N.H.)
 Clifford P. Case, (N.J.)
 Hiram L. Fong, (Hawaii)
 Edward W. Brooke, (Mass.)
 Mark O. Hatfield, (Ore.)
 Ted Stevens, (Alaska)
 Charles McC. Mathias, Jr.,
 (Md.)
 Richard S. Schweiker, (Pa.)
 Henry Bellmon, (Okla.)

ARMED SERVICES

Democrats
 John C. Stennis, (Miss.),
Chairman
 Stuart Symington, (Mo.)
 Henry M. Jackson,
 (Wash.)
 Sam J. Ervin, Jr., (N.C.)
 Howard W. Cannon, (Nev.)
 Thomas J. McIntyre, (N.H.)
 Harry Flood Byrd, Jr., (Va.)
 Harold E. Hughes, (Iowa)
 Sam Nunn, (Ga.)

Republicans
 Strom Thurmond, (S.C.)
 John G. Tower, (Tex.)
 Peter H. Dominick,
 (Colo.)
 Barry Goldwater, (Ariz.)
 William B. Saxbe, (Ohio)
 William Lloyd Scott, (Va.)

BANKING, HOUSING AND URBAN AFFAIRS

Democrats
 John Sparkman, (Ala.),
Chairman
 William Proxmire, (Wis.)
 Harrison A. Williams, Jr.,
 (N.J.)
 Thomas J. McIntyre, (N.H.)
 Alan Cranston, (Calif.)
 Adlai E. Stevenson, III, (Ill.)
 J. Bennett Johnston, Jr.,
 (La.)
 William D. Hathaway, (Me.)
 Joseph R. Biden, Jr., (Del.)

Republicans
 John G. Tower, (Tex.)
 Wallace F. Bennett,
 (Utah)
 Edward W. Brooke,
 (Mass.)
 Robert W. Packwood,
 (Oreg.)
 Bill Brock, (Tenn.)
 Robert Taft, Jr., (Ohio)
 Lowell P. Weicker, Jr.,
 (Conn.)

COMMERCE

Democrats
 Warren G. Magnuson,
 (Wash.), *Chairman*
 John O. Pastore, (R.I.)
 Vance Hartke, (Ind.)
 Philip A. Hart, (Mich.)
 Howard W. Cannon, (Nev.)
 Russell B. Long, (La.)
 Frank E. Moss, (Utah)
 Ernest F. Hollings, (S.C.)
 Daniel K. Inouye, (Hawaii)
 John V. Tunney, (Calif.)
 Adlai E. Stevenson III, (Ill.)

FINANCE

Democrats
 Russell B. Long, (La.),
Chairman
 Herman E. Talmadge, (Ga.)
 Vance Hartke, (Ind.)
 J. W. Fulbright, (Ark.)
 Abraham A. Ribicoff,
 (Conn.)
 Harry F. Byrd, Jr., (Va.)
 Gaylord Nelson, (Wis.)
 Walter F. Mondale, (Minn.)
 Mike Gravel, (Alaska)
 Lloyd M. Bentsen,
 (Tex.)

FOREIGN RELATIONS

Democrats
 J. W. Fulbright, (Ark.),
Chairman
 John Sparkman, (Ala.)
 Mike Mansfield, (Mont.)
 Frank Church, (Idaho)
 Stuart Symington, (Mo.)
 Claiborne Pell, (R.I.)
 Gale W. McGee, (Wyo.)
 Edmund S. Muskie,
 (Maine)
 George S. McGovern,
 (S. Dak.)
 Hubert H. Humphrey,
 (Minn.)

GOVERNMENT OPERATIONS

Democrats
 Sam J. Ervin, Jr., (N.C.),
Chairman
 John L. McClellan, (Ark.)
 Henry M. Jackson, (Wash.)
 Edmund S. Muskie,
 (Maine)
 Abraham A. Ribicoff,
 (Conn.)
 Lee Metcalf, (Mont.)
 James B. Allen, (Ala.)
 Lawton Chiles, (Fla.)
 Sam Nunn, (Ga.)
 Walter Huddleston, (Ky.)

INTERIOR AND INSULAR AFFAIRS

Democrats
 Henry M. Jackson, (Wash.),
Chairman
 Alan Bible, (Nev.)
 Frank Church, (Idaho)
 Lee Metcalf, (Mont.)
 J. Bennett Johnston, Jr.,
 (La.)
 James Abourezk, (S. Dak.)
 Floyd K. Haskell, (Colo.)

Republicans
 Paul J. Fannin, (Ariz.)
 Clifford P. Hansen,
 (Wyo.)
 Mark O. Hatfield, (Oreg.)
 James L. Buckley, (N.Y.)
 James A. McClure, (Idaho)
 Dewey F. Bartlett, (Okla.)

JUDICIARY

Democrats
 James O. Eastland,
 (Miss.), *Chairman*
 John L. McClellan, (Ark.)
 Sam J. Ervin, Jr., (N.C.)
 Philip A. Hart, (Mich.)
 Edward M. Kennedy,
 (Mass.)
 Birch Bayh, (Ind.)
 Quentin N. Burdick,
 (N. Dak.)
 Robert C. Byrd, (W. Va.)
 John V. Tunney, (Calif.)

Republicans
 Roman L. Hruska,
 (Neb.)
 Hiram L. Fong,
 (Hawaii)
 Hugh Scott, (Pa.)
 Strom Thurmond, (S.C.)
 Marlow W. Cook, (Ky.)
 Charles McC. Mathias, Jr.,
 (Md.)
 Edward J. Gurney,
 (Fla.)

LABOR AND PUBLIC WELFARE

Democrats
 Harrison A. Williams, Jr.,
 (N.J.), *Chairman*
 Jennings Randolph,
 (W. Va.)
 Claiborne Pell, (R.I.)
 Edward M. Kennedy, (Mass.)
 Gaylord Nelson, (Wis.)
 Walter F. Mondale, (Minn.)
 Thomas F. Eagleton, (Mo.)
 Alan Cranston, (Calif.)
 Harold E. Hughes, (Iowa)
 William D. Hathaway,
 (Me.)

Republicans
 Jacob K. Javits, (N.Y.)
 Peter H. Dominick,
 (Colo.)
 Richard S. Schweiker,
 (Pa.)
 Robert Taft, Jr., (Ohio)
 J. Glenn Beall, Jr.,
 (Md.)
 Robert T. Stafford, (Vt.)

POST OFFICE AND CIVIL SERVICE

Democrats
 Gale W. McGee, (Wyo.),
Chairman
 Jennings Randolph,
 (W. Va.)
 Quentin N. Burdick,
 (N. Dak.)
 Ernest F. Hollings, (S.C.)
 Frank E. Moss, (Utah)

Republicans
 Hiram L. Fong, (Hawaii)
 Ted Stevens, (Alaska)
 Henry Bellmon, (Okla.)
 William B. Saxbe, (Ohio)

PUBLIC WORKS

Democrats
 Jennings Randolph,
 (W. Va.), *Chairman*
 Edmund S. Muskie,
 (Maine)
 Joseph M. Montoya,
 (N. Mex.)
 Mike Gravel, (Alaska)
 Lloyd Bentsen, (Tex.)
 Quentin N. Burdick,
 (N. Dak.)
 Dick Clark, (Iowa)
 Joseph R. Biden, Jr., (Del.)

Republicans
 Howard H. Baker, Jr.,
 (Tenn.)
 James L. Buckley, (N.Y.)
 Robert T. Stafford, (Vt.)
 William Lloyd Scott, (Va.)
 James A. McClure,
 (Idaho)
 Pete V. Domenici,
 (N. Mex.)

RULES AND ADMINISTRATION

Democrats
 Howard W. Cannon, (Nev.),
Chairman
 Claiborne Pell, (R.I.)
 Robert C. Byrd, (W. Va.)
 James B. Allen, (Ala.)
 Harrison A. Williams, Jr.,
 (N.J.)

Republicans
 Marlow W. Cook, (Ky.)
 Hugh Scott, (Pa.)
 Robert P. Griffin,
 (Mich.)
 Mark O. Hatfield,
 (Oreg.)

Of this group, over one-third belongs to IEEE. The Academy is a private organization designed to advise the Federal Government on engineering matters. (Further details, SPECTRUM, June, p. 93)

SPECTRUM was given the Award of Merit for excellence from the American Society of Association Executives (ASAE). The Society represents 4,500 executives who manage leading trade, professional, educational, and technical associations and societies in the United States and Canada. ASAE annually recognizes outstanding association magazines, newsletters, and journals.

IEEE INTERCON '74 technical program chairman will be J. A. A. "Jack" Raper. He accepted re-appointment to the position after having done such a fine job with this year's program.

FIRST IEEE CONGRESSIONAL FELLOW will be Dr. Ronal W. Larson of Georgia Institute of Technology. Dr. Larson will serve in Washington, D. C. for approximately nine months beginning this September. The aim of the Congressional Fellow Program is to assist the legislative process by making technical expertise available to the U. S. Congress.

EXECUTIVE STANDARDS COUNCIL of the American National Standards Institute (ANSI) has elected Sava Sherr as its Vice Chairman. Mr. Sherr, Manager of IEEE's Standards Operation, is also Chairman of ANSI's Electrical and Electronics Technical Advisory Board.

FOR YOUR INFORMATION

IN MEMORIUM Knox Charlton Black, who died at the age of 67. General Manager of the Northeast Electronics Research and Engineering Meeting (NEREM) from 1962 to 1971, Mr. Black was Chairman of the Board of Scientific Analysis Corp. He was a Fellow of IEEE as well as the Institute of Aeronautical Science, the American Association for the Advancement of Science, the American Acoustical Society, and the American Physical Society.

HISTORY COMMITTEE has started a pilot project to tape record interviews with living pioneers in the electrical/electronics field. The idea is to record remembrances about important contributions to our field of interest before this source material is no longer available. Distribution of the tapes, once recorded, has not been determined. The use of volunteers for most of the work has kept the costs at a minimal level. The project is being supported by the Life Member Fund.

MEMBERSHIP SURVEY will be conducted during the month of June. A sample population of 20% of our membership will receive a questionnaire. The three main topics to be surveyed are: a follow-up to the U. S. Salary and Fringe Benefits Survey, an evaluation of Technical Services, and membership interest in an IEEE Educational Certification program. Urge the membership to promptly return this questionnaire, if they receive one, so that the answer can be quickly tabulated. The results will be published in SPECTRUM before the end of the year.

ACCIDENTAL DISCRIMINATION? Many IEEE members are women, which means that their husbands might be interested in auxiliary activities during IEEE events. Meeting Chairmen should keep this in mind when planning "ladies" programs.

A GRANT from the National Science Foundation (NSF) of \$3,000 was awarded to IEEE for a "Delphi Study to Forecast the Implications of Artificial Intelligence Research for Society." The project will be conducted by the San Francisco Chapter of the Systems, Man and Cybernetics Society, as part of IEEE's Technology Forecasting and Assessment Program. Sixty participants, derived primarily from the International Joint Council on Artificial Intelligence, will try to develop an operational understanding of the limitations of machine intelligence and forecast its impact on society. A questionnaire, that will be mailed to each participant, will include items on possible uses of various machines as well as their effect on functions currently performed by human labor.

ENGINEERS AND SCIENTISTS, holding doctorates, may receive a questionnaire from NSF. They are currently conducting a survey to assay the nation's human resources in these fields. Approximately 60,000 questionnaires are being mailed. The results will be used to guide national policies and programs.

LIMITS TO GROWTH. Public Service Newsletter (January 1973) covered a speech given by Arthur Kantrowitz of AVCO Corporation. The talk was given at a meeting of the American Association for the Advancement of Science (AAAS).

"We are on the threshold of a new age," Kantrowitz asserted, "and we have lost our nerve to use technology as a problem solver. Technology is not an evil in itself and the secondary effects of its use can be controlled. . . The problem seems not to be one of limiting growth but distributing the effects of that growth."

ELECTRIC POWER FROM GARBAGE. A \$6 million, five-year pilot program is being funded by the Environmental Protection Agency. The proposed garbage-power plant would consume 80 tons of garbage a day to produce a million watts of electrical power. (Any connection between this item and the increased size of E. E. will be denied by the Editor.)

WELCOME ABOARD!

New Section:

New Brunswick Section. Formerly Sub-section of the Canadian Atlantic Section

New Subsection:

Guatemala Subsection of the Central America Section

Redesigned Sections:

Rio de Janeiro: Territory expanded to include the following States in the Country of Brazil-Guanabara, Minas Gerais, Rio de Janeiro, and the Federal District of Brasilia

Calumet Section: Porter County, Indiana added to territory (Formerly part of South Bend Section)

New Group/Society Chapters in Sections:

Seattle Section: Communications Society Chapter

New Student Branches:

University of Alabama at Birmingham
Birmingham, Alabama

Ecole Nationale Supérieure des Télécommunications
Paris, France

Regional Engineering College

Warangal, Andhra Pradesh, India

Technion-Israel Institute of Technology
Haifa, Israel

Tel-Aviv University

Tel-Aviv, Israel

* * *

Centerfold pages:

	<u>Pages</u>
White - Open Letter to Congress	4A-4B
White - Responses to Open Letter	4C
White - Washington Report	4D
Canary - Spectrum Deadlines	4E
Blue - Outstanding Lecture Tours	4G-4L
Pink - EAB Committee Membership Request	4M
Green - TAB News	4O-4R
Ivory - Letterwriter's Guide to Congress	4S-4V