

STUDENT BRANCHES DEPT.

# ELECTRICAL ENGINEERING®

\*\*COMES OCTOBER. One senses the vitality and power of IEEE's spinning reserve, put under load in September by most Sections, Groups, and Committees after summer standby. New faces appeared on the scene. Eager hands grasped partly familiar tools and aids; began to cope with new challenges and opportunities.

Now, in October-November, IEEE's entire system realizes the first peak of the fall and winter program, taking full advantage of the flywheel momentum of topside administration which has been functioning since last January. Thanks to on-the-job training of chairmen on their way up, not all September's problems were sprung by surprise.

DOUBLE-ASTERISKED ITEMS in this "Electrical Engineering" (E.E.), though updated, are repetitions (for present training purposes) of paragraphs which appeared in E.E. in October 1966.

As Y<sup>e</sup> Ed. begins his 7th and perhaps last annual cycle, these quotes show that, amid societal turbulence, many of the Institute's housekeeping operations stay put. Right on!

\*\*E.E. EVOLVES. Those having responsibility for this periodical have changed it from a now-and-then publication to a bi-monthly to appear in October, December, February, April, June, and August; revised the masthead, appointed an editor, cut him down to size, told him to use 1/2 the words, 50% of those to be short ones he knows the meaning of.

## \*\*NEEDLES AND PRODS

GET OUT THE VOTE! Officers and members of all IEEE units can serve the Institute's democratic processes by getting out

the October vote for 1973 officers, Directors, and Constitutional amendments, on ballots mailed voting members Sept. 1.

Dispel any confusion that may be occasioned by the Price Waterhouse address on the return envelope. We engaged our Auditors to supervise collection and tabulation of the ballots.

Count of votes will be ready for the IEEE Board of Directors (BofD) when it meets in Puerto Rico December 1. As soon as BofD has adopted the Tellers' reports, a news release will become available. (Copies, Jack Kinn)

Proxies relating to amendment of IEEE's Charter to conform with an amended Constitution will be exercised at the General Meeting of Members at IEEE, New York. Provisional date is Jan. 9, 1973 (see December Spectrum).

Statements of candidates of their positions on various issues appeared in Spectrum, Aug., pp. 90-95; a box-score table was run in Sept., pp. 14-16. A stated candidate for office of President, whose name was not printed on the ballots because he did not submit the required number of signatures on time to run on petition (Constitution, Art. XII, Sec. 3; Bylaw 313.5), made a position statement in Spectrum, Aug., p. 15.

Use of write-in spaces beneath all candidates' names comes under Bylaw 313.10.

COMMITTEE CHAIRMEN, 1973. Chairmen of 1973 standing boards and committees listed in Bylaw 304.2 have been selected by BofD and ExecCom. (Their actual election goes to the 1973 BofD and ExecCom.)

The chairmen selected are: Awards, M. Chodorow; Fellow, J. D. Ryder; Life Member Fund, (not yet announced); Tellers, D. H. Erickson; Admission & Advancement, R. F. Lawrence; History, F. E. Terman; Membership & Transfers (M&T), P. F. Carroll.

Others, required by Bylaws to be chaired by 1973 Directors, await action by the annual Assembly, Dec. 1.

**\*\*NOMINATIONS & APPOINTMENTS.** (Refer to Bylaws and Calendar of Appointments.) As to composition of the 1973 Standing Committees, whether appointed directly by BofD or by its Executive Committee (ExecCom), 1973 Chairmen, by October, have been proposed, accepted for recommendation, (see preceding item) furnished suggestions or nominations for members of their committees, and have already recommended their officers and committeemen. These lists are reviewed in November-December by 1972 BofD and ExecCom in behalf of 1973 bodies meeting in January. The call for recommendations for the 1974 slate will be made in April 1973.

Chairmen of Groups, Societies, and Sections must study their own Bylaws and follow the calendars, expressed or implied, as to recommending succeeding officers and committeemen.

#### **\*\*CHALLENGES AND OPPORTUNITIES**

LOOKING AHEAD. October affords a last chance to wrap up plans for 1973, by Societies, Groups, committees, and other units whose officers change on January 1. Sections, Chapters, and units whose changeover occurred at midyear can attribute the success they are chalking up during the fall upswing to the groundwork they laid in May and June. Three to four months is the minimal headway in this business; and in some cases, like a major conference, a year is not enough.

**\*\*CONTINUING EDUCATION.** Broadly speaking, IEEE is one vast effort in adult continuing education—a term which describes most Section and Chapter meetings, technical courses, Group activities, conferences, conventions, exhibitions, and all IEEE publications. Our objective is to keep the pacesetters among us in the

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vanguard, and the membership abreast of the sometimes bewildering tempo of electrical-electronic developments.

IEEE ELECTED OFFICERS, 1974. On pp. 4A-4B will be found two nomination forms for use in proposing candidates for IEEE President and the Vice President elected by voting members, to be voted upon in 1973 to take office in Jan. '74. Nominees must be Fellows or Senior Members. Other qualifications are stated in the guidelines on the back of each form. Nominators may find helpful "Democracy and IEEE," by President Tanner, Spectrum, Sept., pp. 7-8.

These nominations are sought from all organizational units and individual members by the Nominations & Appointments Committee (N&A). Feb. 1, 1973 is deadline. (Extra forms, Emily Sirjane)

ELECTRONICA 72. The IEEE is sponsoring a New York-to-Munich tour for engineers and scientists interested in attending Electronica 72, the fifth international exhibition of electronic components and production and test equipment, and, during the same week, Kongress Mikroelektronik, the fifth international conference on microelectronics. The Electronica exhibits run from November 23 through 29, and the Microelectronics Congress from November 27 through 29. Don Christiansen, Editor of SPECTRUM, will host the tour. For more details, see the article, p. 49, October, SPECTRUM.

POPOV SOCIETY EXCHANGE. The theme for the '73 IEEE delegation visiting Russia will be focused on computers—qualified members are encouraged to apply to their respective Group/Society chairmen/presidents for appointment as delegates to the 4-day Popov Society Congress, Moscow, to be held some time in May or June '73. Visits are typically 2 weeks and include the Congress, research centers, educational establishments, factories, etc. Applicants arrange for their own expense funds, and are expected to attend a briefing in March

at Intercon '73. See Nov. Spectrum. (Particulars, Jack Kinn)

**\*\*SPEAKERS TRAVELING OVERSEAS.** Reciprocal advantages accrue when competent speakers present papers to IEEE Sections in foreign countries. IEEE members in any country, contemplating a foreign trip and desirous and capable of making engineering contacts of this type are invited to inform Ms. Emily Sirjane, who will furnish name and address of the Section chairman with whom the speaker may work out his arrangements directly.

Note that this is two-way, transatlantic, transpacific, transcaribbean, etc.

10TH ANNIVERSARY OF MERGER comes up Jan. 1, 1973. Serious stocktaking? Lavendar and old lace? Hoop-la?

#### SOCIO-ECONOMIC ISSUES

U. S. ACTIVITIES COMMITTEE (USAC) of Regional Activities Board (RAB). (See E. E. Feb., p. 6; Apr., p. 3.) USAC consists of Directors of Regions 1 to 6 (U. S.) chaired by the elected Vice President. Its considerations are confined to interests of U. S. members. Much of the U. S. work is being done through ad hoc committees, the following being very active at present: Government Relations, Employment Practices (employees and employers), Manpower Planning, Professional Activities, Salary Survey, and Pension Committees. The entire structure is ad hoc in the sense that its scopes and personnel have not yet reached Bylaw and Organization Roster stage; but the cluster of efforts are fulfilling a function where time is of the essence. There may be further adaptations if Constitutional changes are approved.

NATIONAL SCIENCE POLICY & PRIORITIES ACT (S. 32) (E. E. Aug., pp. 2, 4A-4B; Spectrum, Sept., p. 18). The Senate passed S. 32, including Title 4—Protection of Pension Rights, 70 to 8, Aug. 17. (Cf. Spectrum, Aug., p. 23; Sept., p. 17.) Thanks to IEEE members who supported National Society of Professional Engineers (NSPE) in its advocacy of the measure.

The companion Bill, HR. 15789, has not yet been reported out of the House Committee on Science & Astronautics. When you write the Congressman from your District, or one from your State who may be on this House committee or on its subcommittee on Science, Research & Education, urge him to have HR. 15789 reported out for favorable floor vote. (Spectrum, Sept. p. 17; E. E. Aug., p. 4AA-2.)

In its presentation to the named subcommittee Sept. 27, NSPE said it spoke also for IEEE, and made these points among others: HR. 15789 is identical with S. 32 as the Senate passed it. . . We appreciate the time limitation which impending conclusion of this Congress imposes. . . The overwhelming Senate vote clearly mirrors our plea for prompt action by the House. . . The list of domestic ailments plaguing all Americans grows in length and severity. The one national resource which can begin to provide solutions—our technical talent and energy—is being shamefully wasted through non-use, misuse, and under-use. HR. 15789's National Policy provisions give the necessary national commitment to make technological skills available. . . Creation, in Title II, of the Civil Science Systems Administration, with funds to design, test, and evaluate capacities for improving public services is a basic, major step in re-ordering our technical skills for domestic benefit. . . Creation of civilian markets should take first call on the Treasury: retraining, where necessary, can then follow, once public needs have been refined to the point of marketable demands. . . Title III then wisely provides for transition from research and engineering which have been terminated or reduced to other civilian-oriented activities, through a variety of private and public associated techniques. This clearly puts the horse again before the cart. . . Title IV addresses itself to portable pensions—a most urgent problem created by engineering mobility—imposed upon the engineering community by rapid changes in national priorities and related government contracting practices. Engineers tend to "follow the contract." Indeed, in many individual cases, they have been urged by government to choose technical education and careers in order to further government objectives. Hence, the

unpredictable expansions and contractions of government procurements and R&D grants require pension legislation over and above that contained in proposals of more general applicability. Title IV acknowledges this governmental responsibility to prevent engineers' forfeiture of retirement rights. . . HR. 15789 ought to be passed into law without further delay.

WASHINGTON OFFICE OF IEEE. (E. E. Apr., p. 3; June, p. 3.) Ralph L. Clark, Manager, has described briefly its functions in relation to many branches of the U. S. Government which handle matters of IEEE interest and concern. See p. 10, this E. E.

WASHINGTON LAW CONSULTANT. Frank Cummings, Washington attorney, has been retained by IEEE to guide IEEE's responses to questions raised by legislative representatives; to act as counsel for our Government Relations committee; and to explore alternative means of providing better pensions for engineers.

PLANKS IN THE POLITICAL PLATFORMS. NSPE, on behalf of itself, IEEE, and other societies, presented in July and August recommendations to both the Democratic and Republican platform committees.

QUESTIONS PUT TO POLITICAL CANDIDATES. Representatives of 19 engineering societies including IEEE drafted 12 questions designed to draw U. S. Presidential candidates out on issues pertinent to "a total of approximately a million individuals," mostly engineers and scientists.

Emergence of engineers into the political arena may have proved too precipitate to pin down this year's candidates explicitly in the hoped-for manner. Two years from now (in the legislative contests), or four years hence the story may be different. The threshold of hearing of the political ear is said to be around 800,000 people.

In any event, E. E. runs the 12 questions (pp. 4C-4D) because of their informational content to readers. Variants suggest themselves for future use with congressional aspirants, State Governors, and municipal factotums.

SURVEY OF SALARIES and Fringe Benefits (E. E. Aug., p. 3). Spectrum ran summaries in the August (pp. 82-87) and September (pp. 67-69) issues, and there is one on unemployment in the October issue, p. 74.

Cutoff date for inclusion of returns in the final analysis was Sept. 5. A report planned to be offered in October at \$50 (\$25 to members) is being prepared. It will contain complete tabulated results, explanation of survey procedures, highlight conclusions, comparison with other surveys, statistical validity, and special data. The nature of future periodic surveys, limited and complete, is being studied.

SOCIAL IMPLICATIONS OF TECHNOLOGY, a topic administratively assigned to an ad hoc committee of the Technical Activities Board (TAB) but in behalf of the entire Institute (not solely Regions 1 to 6—E. E. Aug., p. 2) was in its organization and preliminary stages in August. Plans for its activities have been apportioned among 10 Working Groups.

#### OTHER TOP-SIDE DEVELOPMENTS

BofD 1972-73 TRANSITION. 1972 BofD met in San Diego Sept. 15-16. It will hold its Annual Meeting (last one scheduled in '72) and the Assembly (Bylaw 200) will also meet at San Juan, P. R., Dec. 1-2. Names of 1973 Directors elected by IEEE members and the Assembly will be given in January Spectrum. (Prior inquiries after Dec. 5, Betty Stillman)

BofD '72 in November will confirm the date of the '73 BofD's first meeting—tentatively Jan. 10. ExecCom's last two scheduled meetings this year will be in Puerto Rico Nov. 29 and New York Dec. 19.

NEW DIRECTORS' ORIENTATION at the Dec. 1-2 meeting will, like last year (E. E. Dec. '71, p. 3) include attendance as observers, and participation in an orientation workshop, Nov. 29.

PRESIDENT'S OCTOBER MESSAGE (Spectrum, pp. 7-8) to the members reveals the process-in-being of a "supranational" Institute which will "bring electrical engineers

of all nations together in their attack on the world's technological problems."

Another highpoint in his article is his suggestion that members, who are so inclined and have the means, "adopt" a less-favored member-engineer or Student by paying his dues on a year-to-year basis. Mr. Tanner explains how this can be done—and at once.

"Focal Points" in Spectrum, November will have two short articles: career opportunities, and the supply and prospective shortage of engineers.

BYLAW CHANGES made by BofD in September are given in pp. 4E-4F. (Extra copies, Betty Stillman.)

They should be associated with your copy of the current Bylaws in effect Jan. 12-13, 1972; and added to the changes already reported in E. E. June, pp. 1, 4E-4F. Bylaws are not due to be reprinted at this time. (Extra copies of June changes, Barbara Brown)

POLICY STATEMENT #19 REVISED. The current Statement, on acceptance of funds from foundations and Government agencies to support IEEE activities, has required ExecCom approvals in advance of exploratory conversations. In practice the requirement has proved unrealistic. ExecCom recently added its recommendation to that of TAB's Operating Committee (TAB OpCom) for a re-wording, and BofD has approved. See pp. 4M-4N.

Statement of Policy No. 2G has also been revised as shown (pp. 4M-4N).

1973 DUES IN GENERAL. President Tanner explained the needs and amounts of increased dues and the addition of mandatory Regional fees (assessments) in a Spectrum article, Aug., pp. 88-89. (Cf. E. E. June, p. 2.)

Invoices (bills) for 1973 will be mailed about Oct. 5-11. Important quote from the Tanner article: "For the guidance of BofD, each U. S. member will be requested to indicate on the return portion of his dues bill whether he prefers the U. S. Regional fee to be applied 1) to professional, non-technical programs, 2) to technical programs," or 3) to either (no preference).

1973 DUES IN SPECIAL CASES. By March revision of Bylaw 109.5 the half-year's dues, fees, and assessment remission granted the unemployed upon application in '71 and '72 (E. E. Oct. '71, pp. 3-4) will be repeated in '73 on similar terms. Half the Regional Assessments are payable if applicable.

A member who has retired from his job, who is not gainfully employed, and who does not qualify as a Life Member, on attaining the age of 65 may apply for dues and assessments at \$8/year total.

Dues and Regional Assessments for Life Members are waived. (Eligibility: Bylaw 102.1; dues, etc.: Bylaw 109.2; see p. 4E of this E. E.)

New Members signed up before Dec. 31, pay \$25 dues to the end of 1973 and no Regional Assessment (E. E. Aug., p. 5).

Student dues, now \$8, will not be increased in 1973 (E. E. Aug., p. 7). Students do not pay Regional Assessments.

1973 dues and Regional fees for Student members transferring to a higher grade are given in a September revision of Bylaw 109.1 (see p. 4E).

Active IEEE members in military service (Bylaw 105.7) pay dues equal to Student dues (\$8 in '73) and no Regional fees.

IEEE FOUNDATION, INC. (Spectrum, June, p. 43, col. 2; E. E. Aug., p. 2.) Counsel is preparing for incorporation and obtaining desired IRS 501 (C) (3) status for it. Its roles will be disclosed in E. E. as they unfold.

1973 MEMBERSHIP DIRECTORY. BofD has authorized publication. The current one (1970) now has limited utility in view of accumulated address and job title changes in the intervening years.

VDE/IEEE AGREEMENT. (E. E. Oct. '70, p. 3; Feb. '71, p. 4.) Our agreement with Verband Deutscher Elektrotechniker (VDE) has been strengthened: 1) Members may use the opposite society's libraries, other facilities; attend lectures, take inspection trips. 2) Societies will be informed of contemplated travel; cards of introduction supplied. 3) Publications will be exchanged; made available to members at special rates. 4) There will be mutual international

conferences; exchange of lecturers. (Inquiries, Don Fink)

PUBLICATION NEWS

STAFF WRITERS WRITING. Comparing first 10 months of Spectrum in '72 with same in '71, the number of feature articles has increased to 82 from 48; and the number of Spectrum-staff-written articles has leaped to 42 from 5. More work for pa and ma!

(Note—I like the new Editor's Spectrum. If you share my view, don't write me, write him. If a particular story clicks, send your bouquet to the writer, copy to Don Christiansen—Ed.)

PUBLICATION STAFF changes reflect a re-shuffling incident to Bill Hilty's departure (E.E. Aug., p. 4). Woody Gannett becomes Director Publication Services and Jim Carter Manager Editorial Services.

SPECTRUM DEADLINES ought to be more generally known throughout IEEE so that material can be launched to meet them. As a service we run the info as a center-fold insert, p. 4G, prepared by Spectrum for E.E.

EDUCATION NEWS

"PROJECT 'USE'": Undertake Section Education. Sections, by letter from Educational Activities Board (EAB) chairman Wade, are being encouraged to make "educational offerings of all varieties" to Section members (Spectrum, July, p. 7). Both EAB and RAB feel that our local educational efforts should be considerably expanded.

Simple forms are being devised to aid in applying for underwriting. Such educational programs are usually self-sustaining. The use of "USE" is to encourage less-experienced Sections to venture on courses-for-fee. (Information, Jack Kinn)

EMPLOYMENT OPPORTUNITIES IN CATV. IEEE staff and Washington office cooperated with Office of Telecommunications, U. S. Department of Commerce, in

a study "indicating substantial opportunities" for re-training and employment in cable television (CATV) of engineers displaced from other areas.

ECPD CONSTITUTION. Movement is afoot to amend the constitution of Engineers Committee for Professional Development (ECPD), one of whose primary purposes is accreditation of engineering schools' curriculums. IEEE is a participant.

Once confined largely to examination of educational plant and faculty of colleges offering 4-year engineers' baccalaureate degrees, ECPD, in the past decade, took on the 2-year Technician accreditation function (E. E. Apr. '71, p. 5); more recently 4-year Technology programs (E. E. Aug. '72, p. 3). Accreditation also now embraces advanced degrees beyond the first professional degree (B. A. or B. S.)

"There are now standing in the wings" a group of new societies asking admittance to ECPD and participation in accreditation. As a constituent society, IEEE has formulated its position on ECPD constitutional changes: 1) ECPD Board membership should be opened to societies which can contribute to accreditation; 2) Representation should have some quantitative relationship to number of members; 3) Assessments should be related to a fixed-plus-variable-fee formula.

CONFERENCE NEWS

INTERCON 73. (See E.E. Aug., pp. 4-5.) Don Larson spent several days in New York in August preparatory to his Sept. 1 take-over. Lagging advance sales to exhibitors present him with a major task. . . Exec-Com has expressed interest in the next Intercon banquet by appointing a special committee: Messrs. Tanner, Chestnut, Sears, Chodorow, Fink.

CO-SPONSORED CONFERENCES. Exec-Com has set a competitive price of 4¢ each for mailing labels, when IEEE co-sponsors with another entity. The preferential rate is 1.3¢, effective Jan. 1, '73, for IEEE's solely-sponsored conferences, Section, Society, Group, Chapter, and other in-house affairs.



RECOMMENDED NOMINEE FOR IEEE SERVICE

NOMINEE RECOMMENDED FOR: (indicate office, committee, board)

Before filling in, please read Guidelines on reverse side.

NOMINEE \_\_\_\_\_  
First Name Middle Initial(s) Last Name

MAILING ADDRESS \_\_\_\_\_

BUSINESS AFFILIATION \_\_\_\_\_  
Name of Company

\_\_\_\_\_ Company Address Telephone Number

\_\_\_\_\_ Title or Position in Company

Indicate present type of work: research, development, sales, teaching, etc.

IEEE RECORD: Present Membership Grade \_\_\_\_\_

\*Offices Held (with dates) \_\_\_\_\_

\*Medals, Prizes, Awards \_\_\_\_\_

Other \_\_\_\_\_

\* If available to nominator.

OTHER INSTITUTE AND SOCIETY MEMBERSHIPS AND GRADES \_\_\_\_\_

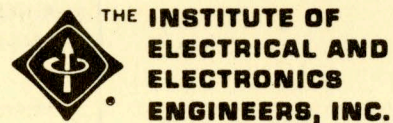
COMMENTS BY NOMINATOR: Give an outline of the nominee's specific qualifications for the nomination or appointment here (use separate sheet if necessary).

\_\_\_\_\_ Date

\_\_\_\_\_ Name of Nominator

\_\_\_\_\_ Telephone Number

\_\_\_\_\_ Address



345 EAST 47TH STREET, NEW YORK, N.Y. 10017 AREA CODE 212 752-6800

GUIDELINES FOR RECOMMENDING NOMINEES FOR SERVICE TO THE IEEE

This form shall be used in submitting the names of nominees to be considered for the elective offices of the IEEE (President and Vice-President) and for recommending appointments to the IEEE Committees and Boards. The completed form shall be mailed to the Staff Secretary of the Nominations and Appointments Committee at IEEE, 345 East 47th Street, New York, New York 10017.

The general qualifications for service to IEEE are not different from those in any position of responsibility and trust: competence, experience, willingness to take on the task, availability of time to participate, enthusiasm, and vigor. In the absence of such qualities, it is unwise to recommend a candidate merely as a reward for past service. In fact, if past service indicates that the candidate does not have the competence suitable to the task, that member should not be proposed.

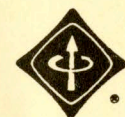
Competence implies knowledge and ability to serve creatively and actively, not merely passively. The responsibilities of the IEEE Directors and the tasks of the various Standing Committees and Boards are described in the IEEE Bylaws, and these should be consulted if the nominator is not certain of the tasks to be performed. Two types of competence are involved, technical and administrative. Few candidates possess both in equal measure, but every nominee should be strong in at least one of these, depending on the task to be performed. The technical tasks require knowledge of one or more engineering or scientific fields and the ability to make sound judgments. Administrative tasks involve the judgment of people and organizational operations, and the ability to develop appropriate Institute policies and objectives.

In judging candidates on the basis of experience, prior work in Institute affairs is, of course, important but should not outweigh ability. Since new vitality must be brought into the IEEE organization, equivalent experience outside the Institute (as in other organizations, or in connection with the candidate's professional employment) should be taken into account. In many cases a candidate having no experience bearing specifically on the task may be suitable if highly competent, since he or she will soon "learn the ropes."

Willingness to serve is, of course, essential. There is no rule against a nominee being consulted by the nominator to ascertain this. However, since candidates are proposed from many sources, the Executive Committee and Board may have more candidates than there are open positions. When consulting nominees, therefore, it should be made clear that they cannot be assured of appointment.

Availability of time to participate is usually an important consideration in the candidate's willingness to serve. Committee service is so vital to the welfare of the Institute that most industrial, academic and governmental organizations recognize its importance and the comparatively small time required (compared with the working year) can be justified. A perfect attendance record at Committee meetings is seldom achieved, even by the Chairman. Moreover, specially gifted Committee workers can contribute far more ideas and wisdom in a few meetings than does the less able member who makes attendance a fetish.

Enthusiasm, vigor and creativity are, we believe, among the most important considerations. One of the troubles experienced by all professional societies is the tendency to populate committees with senior statesmen who, however distinguished, are out of touch with present challenges and opportunities. Electrical and electronics engineering is a fast-moving profession, and the Institute needs a continual infusion of new ideas. Much of this must come from younger members, although chronological age is not necessarily an indicator of a youthful attitude of mind, nor of current involvement in the affairs of the profession.



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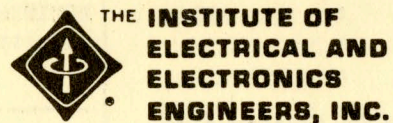
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QUESTIONS FOR POLITICAL CANDIDATES

If you are elected, to what extent will you:

- 1) support the early expansion of Federal Government scientific and engineering programs to stimulate the attack on the critical problems of health care, poverty, public safety, pollution, unemployment, productivity, international trade, housing, education, transportation, nutrition, communications, and energy resources?
- 2) support the application of engineering and scientific concepts, judgments, and analyses in the development of a national policy which will obtain optimum results from the expenditures of public funds to provide the environment, transportation, water, structures, power and communications to meet the needs of people and nature?
- 3) support the continued allocation of funds to the problems of our civil society and economy at an increasing percentage of the GNP until an adequate level is reached?
- 4) through your Office of Science and Technology and a civil science and technology agency, support authoritative coordination and guidance of the government's programs to apply advanced technology to these critical civil problems?
- 5) support continued appropriations to the "mission oriented" departments and agencies to conduct their R&D programs within their primary missions without reduction by reason of funds accorded to a civil science and technology agency?
- 6) propose to assure the appointment of qualified engineers to fill high level federal executive and technical positions in the Executive Branch of the government when such positions can be best served by persons able to draw upon knowledge, training and experience acquired in engineering and scientific fields?
- 7) support the orderly, progressive transition to new national priorities in order to minimize manpower dislocation and unemployment and to provide opportunities for re-training?
- 8) propose to mobilize and maintain a balance of scientific and engineering manpower to achieve the goals of solving our critical civil problems?
- 9) support active United States participation in international standardization in order to preserve the nation's competitive position in foreign trade?
- 10) support the concept that engineers and scientists should not forfeit their pension rights as they move from job to job in the public interest and insure early vesting and portability and otherwise protect pension rights?
- 11) support pension protection by insuring adequate funding and insurance as well as proper disclosure and fiduciary standards?
- 12) support the concept that employed and self-employed engineers and scientists should be enabled to more responsibly provide for their own futures by making adequate tax deferred contributions to a Keogh-type pension plan?



IEEE BYLAW CHANGES  
Board of Directors, Sept. 15-16, 1972

MEMBERSHIP—Admissions and Transfers

108.5 (Annual Dues)

In 1st, 2nd, 5th paragraphs, after "dues," insert and Regional Assessments, if any, in five places, so it will read "dues and Regional Assessments, if any,"

109.1 (Dues and Regional Assessments)

Change first sentence to read:  
The annual dues for all grades other than Student, except as noted in paragraphs 2 and 3 below, shall be thirty dollars (\$30.00) with an additional Regional assessment of five dollars (\$5.00) for members residing in the United States and Canada.

Change third sentence to read:  
Student members in Regions 1 to 7 inclusive transferring to a higher grade, without interruption of membership, shall pay dues of eighteen dollars (\$18.00) with an additional Regional fee of three dollars (\$3.00) for the first year of membership in the higher grade; transferring Student members in Regions 8 to 10 inclusive shall pay dues of eighteen dollars (\$18.00) for the first three consecutive years of membership in the higher grade, with no additional Regional fee.

109.2 (Life Member Dues)

In first sentence change "Dues" to Dues and Regional Assessments, if any,

110.1 to 110.4 (Billing, Termination and Reinstatement)

After "dues" insert and Regional Assessment, if any, as follows: 110.1, second sentence; 110.2, first and second sentences; 110.3, second sentence.

After "dues" insert and Regional Assessments, if any, as follows: 110.3, first sentence; 110.4, first sentence.

111.2 (Resuming Membership)

After "dues" insert and Regional Assessments, if any,

301.15 (new) (Board of Directors) to read:  
In consideration of their serving as Directors or Officers, IEEE shall indemnify any Director or Officer or former Director or Officer of IEEE, or any person who shall have served at its request as a Director or Officer of another scientific, literary, and/or educational organization against reasonable expenses, including attorney's fees and judgments actually incurred by him in connection with the defense of any action,

suit or proceeding to which he is made a party by virtue of his actions while serving as a Director or Officer. The foregoing right in indemnification shall not be exclusive of other rights to which any Director or Officer may be entitled.

305.1 (Awards Board, Appointments)

In paragraph headed "Appointments to Awards Board," delete the sentence: "The Chairman shall be a member of the IEEE Board of Directors." (Note—Effective Jan. 1, 1973.)

305.4 (Awards Board, Field Awards)

Insert in the list, between Morris N. Liebmann and David Sarnoff Awards:

Frederik Philips Award, in management of research and development.

306.1 (Convention Name)

In 3rd & 4th lines, make name read:  
IEEE International Convention and Exposition (INTERCON)

310.2 (Technical Activities Board, Nominations)

First sentence is unchanged; for the remainder substitute the following:

On or before October 1 preceding the election year, the TAB Secretary shall issue a call for nominations to Presidents and members of the Groups and Societies in those Divisions that are to elect Directors, requesting that, on or before March 1, each Group and Society in the Division submit at least one nomination for Divisional Director. If there are fewer than three Groups or Societies in the Division involved, each shall be requested to submit not fewer than three nominations. Nominations by petition shall conform to Bylaw 313.5.

311.2 (Fellow Committee)

Revise the third (last) paragraph to read:  
The Fellow Committee shall consist of seventeen members chosen from among those of Fellow grade, with consideration to representation from the geographical and technical divisions of the IEEE.

311.6 (Life Member Fund Committee)

In paragraph 2, change first sentence (only), to read:

The Life Member Fund Committee shall consist of a minimum of eight members.

313.1 (Invitations to Nominate)

Delete the words "before March 1 of" in the third line.

313.8 (Regional Ballots)

In second paragraph, beginning "The ballot going to each of the Regions," etc., add a sentence at the end, reading:

Where desired, the ballot may also contain candidates for the Regional offices (other than Regional Director) as determined by the Regional Committee.

313.9 (Ballots—Counting)

In the third sentence, after "IEEE Headquarters", add the following:  
or received by a qualified organization delegated by the IEEE Board of Directors.

315.2 (Ballots—Constitutional Amendments)

After "IEEE Headquarters" in the first sentence add:  
or to a qualified organization delegated by the IEEE Board of Directors.

After "IEEE Headquarters" in the fourth sentence add:  
or received by a qualified organization delegated by the IEEE Board of Directors.

(Note) The purpose of amending 313.9 and 315.2 in the manner shown is to provide for the appointment of outside auditors to receive and supervise the tallying of ballots.

601.1 (Annual International Convention)

Revise to read:  
There shall be held annually a convention named INTERCON. IEEE shall be the sole sponsor. The date and location of each such convention shall be established by the IEEE Conference Board, subject to approval of the IEEE Board of Directors.



IEEE SPECTRUM DEADLINE SCHEDULE for 7 Forthcoming Issues

ISSUE	FEATURE ARTICLES	INSIDE IEEE	FORUM	FOCAL POINTS
December 1972	10/11*	10/13	10/13	10/13
January 1973	11/8*	11/10	11/10	11/10
February 1973	12/6*	12/10	12/10	12/10
March 1973	1/10*	1/14	1/14	1/14
April 1973	2/6*	2/10	2/10	2/10
May 1973	3/8*	3/12	3/12	3/12
June 1973	4/6*	4/10	4/10	4/10

NOTE: Forum: Individual readers are invited to comment in this department on material previously published in Spectrum; on the policies and operations of the IEEE; and on technical, economic, or social matters of interest to the electrical and electronics engineering profession.

Inside IEEE: This section encompasses official Institute activities under-way that impact upon most, if not all, of the membership.

Focal points: This department reviews selected current developments, both technical and professional in nature, that are of broad interest to electrical and electronics engineers. It excludes items related to Institute-sponsored programs or developments.

\*Date to printer. Allow minimum of four weeks for review and editing.





# IEEE REGIONAL OUTSTANDING LECTURE TOURS

The following list of available speakers supplements those published as blue inserts in the February and April 1972 issues of EE. Section and Chapter officers are encouraged to request speakers from those listed or by describing a topic of interest. IEEE general funds pay travel expenses in full and other expenses as necessary; Sections are encouraged to provide local hospitality.

the chosen speaker directly because he has been advised to expect invitations under this program from Headquarters. As soon as an itinerary coordinating visits to more than one Section has been set up, all arrangements are turned over to the host Sections.

To request a speaker or for further information; contact IEEE Headquarters (Peter Edmonds (212) 752-6800 x.333). Please do not contact

(IEEE units wishing to invite a speaker and pay all his expenses are free to use these lists without constraint. But take care to explain to the speaker that the inviting unit is accepting full responsibility in this case. Goodwill is precious.)

<u>SPEAKER</u>	<u>INSTITUTION</u>	<u>TOPICS</u>
Dr. Russell Carpenter	N. E. Radiological Health Lab. USPHS	Biological effects of electromagnetic radiation
Dr. Nabil Farhat	University of Pennsylvania	Microwave holography
Dr. F. E. Glave	Bell Northern Research	Digital microwave transmission systems
Dr. William P. Harris (psychologist)	MIT Lincoln Lab.	Automated instruction systems
Mr. Ivar M. Holliday	Raytheon	General Writing Practices - Technical and Business Reports, Proposals and Brochures, Specifications and Standards, Oral Presentations
Dr. Floyd B. Humphrey	CalTech	Flux Reversal in Magnetic Thin Films Education and Laboratory Practice - application to Solid State Labs.
Dr. Alan R. Kahn	Medtronic Inc.	Biomedical Instrumentation
Mr. James N. Kilpatrick	Westinghouse	General Writing and Editing Practices Oral Presentations
Dr. Emmett Leith	University of Michigan	Holography
Mr. Harvey McKeough Mr. William Moffett	Allis Chalmers Co. I-T-E Imperial Corp.	Compact, high-voltage electric power switchings stations
Mr. John J. Miller	The Bonligny Co.	General Editing Practices Editing Practices Oral Presentations
Mr. Daniel M. Rosen	Consultant	Patents and licencing
Dr. H. J. Shaw	Stanford University	Surface acoustic wave devices for communication and data processing
Dr. Ivars Melngailis	MIT Lincoln Labs.	Diode Lasers



## Technical Activities Board

### New IEEE Societies

Final approvals have been voted to establish two additional IEEE Societies.

Circuits and Systems 4-CAS  
Nuclear & Plasma Societies 5- NPS

Please note that the latter will publish two Transactions:

Nuclear Science - 4NS  
Plasma Science - 4PS

### Affiliate Fee

The IEEE affiliate fee was raised to \$18 last year, in anticipation of an increase of the IEEE dues.

### Technology Forecasting and Assessment

As of September 28, 1972 the following Groups & Societies had not directly (or through their Divisional Directors) advised the TAB TF&A committee of their appointed representatives to participate in this TAB activity; Broadcasting; Circuit Theory; Control Systems; Education; Power Engineering; Manufacturing Technology. Two training sessions for G/S representatives have been held in Washington and "trees" are being generated. A third session is planned on the West Coast in October.

Dr. William C. Dean, Teledyne-Geotech, 314 Montgomery St., P.O. Box 334, Alexandria, Va. 22314, Phone (703) 836-3882 is Secretary of the TAB TF&A Committee. He and the TAB office should be advised of appointments of New G/S representatives.



REVISED STATEMENTS OF POLICY  
Board of Directors, Sept. 15-16, 1972

STATEMENT OF POLICY #2-G---"OPEN  
ATTENDANCE" AT ALL IEEE TECHNICAL MEETINGS

2-G-1 IEEE Sponsorship

All IEEE members, irrespective of grade or any similar consideration, shall be admitted (upon payment of appropriate registration fees, if any) to any and all meetings, conferences, conventions, discussion groups, lecture series, tours, or other assemblages of which the IEEE is a sponsor or co-sponsor. In furtherance of this policy, the IEEE will not act as sponsor or co-sponsor of any assemblage participation in which is subject to security clearance or other restriction of either a governmental or industrial nature.

2-G-2 Physical Limitations

It is recognized that some tours and similar activities will be limited by the capacity of buses or other facilities, and attendance will be available on the basis of sequence of receiving individual requests from members or other participants. Tours or similar activities with any other restrictions are not acceptable for IEEE sponsorship or co-sponsorship.

2-G-3 Government Security

In the event that another organization sponsors an assembly requiring some form of government security clearance, at times and places related to an IEEE-sponsored or co-sponsored conference, there may be cooperation for the convenience of the attending IEEE members between the IEEE-sponsored or co-sponsored conference committee and the other organizations as follows:

a. The IEEE conference announcements and technical programs may contain information relating to the classified meeting or restricted activity.

The IEEE conference program and related publicity shall indicate that this is a separate activity, and shall identify the sponsor of that activity, stating that the information is provided as a service for the convenience of the attending IEEE members interested in that activity.

b. The attendance criteria or security requirements for admission to the classified or restricted event shall be the responsibility of the organization sponsoring such activities. All security correspondence and registration arrangements shall be directed to the organization responsible for the classified meetings. Information concerning registration procedures (including any requirements by the sponsor of the classified or restricted event for attendees to register at the IEEE-sponsored conference) may be included in the IEEE conference publicity by the IEEE conference committee.

c. Transportation arrangements to and from the classified meeting or restricted event shall be the responsibility of the sponsor of such meeting/event.

d. IEEE shall not be involved with the costs of providing secure conference rooms, security guards, or other operating costs associated with the presentation of classified sessions or events. Unclassified abstracts or digests may be published in the conference program and conference records. IEEE shall not be involved in any way with the publishing, nor with the costs of publishing classified information, nor with the maintenance of security.

2-G-4 Administrative Meetings

None of the above shall be construed to limit the right of the Board, Executive Committee and other regularly constituted Boards and Committees of IEEE to restrict attendance at their meetings to their duly appointed members.

STATEMENT OF POLICY #19—ACCEPTANCE OF FUNDS FROM FOUNDATIONS AND GOVERNMENT AGENCIES

1. No organizational unit or individual member of IEEE acting in an IEEE capacity shall submit an application for a grant or contract to support operating activities without prior approval of the IEEE Executive Committee. Applications by conference chairmen for grants to support travel, publications, publicity and general conference facilities, but excluding special projects and demonstrations, are specifically excepted; these applications are to be approved by the General Manager. IEEE units or individual members initiating conversations with officials of a government agency, intended to lead to the award of a grant or contract, should simultaneously inform IEEE Headquarters of the subject of the conversations and seek guidance on procedure.
2. The IEEE may accept outside financial support from foundations or government agencies, when such support is for activities of a technical and educational nature available to the entire membership and of interest to a considerable segment. All applications for grants and acceptable offers of contracts shall be submitted to IEEE Headquarters for approval of the General Manager or the IEEE Executive Committee as required. The contractor shall be IEEE in all cases; individual IEEE members and organizational units may serve as principal investigator and operational entity, respectively.
3. From time to time, government agencies express an interest in particular IEEE publications, sufficient to provide some financial support. These publications may include special issues of IEEE periodicals or publications such as Conference Records. It shall be appropriate for IEEE to accept and acknowledge such government agency support, provided there is no direct or implied control by the agency of the content of any such supported publication.

HONORS

FELLOW NOMINATIONS, '72 and '73. Technical evaluations, by Group/Societies, of Fellow nominations in the course of their comparative weighing was new in '72. Asked how it went for first go-round, Emily Sirjane testified: "They did a beautiful job!" This year, '73, ExecCom is going to ask the Group/Society evaluators to complete their work by listing candidates in order of merit: "Must" at the top.

FUNDING MEDAL OF HONOR. The courts have approved the use of the Frank M. Cowan bequest to IEEE to fund the Medal of Honor in such years that it is given for creative communications. To those who worked with Frank this seems a fitting way, indeed, to preserve his memory.

REGION AND SECTION NEWS

OUTSTANDING-LECTURE TOURS. The centerfold insert, pp. 4I-4J, adds to the information heretofore given (E. E. Feb., pp. 4K-4L; Apr., 4A-4B; June, 4, 4C).

Reminder: Financial support, to supplement Section resources, is available if necessary from IEEE to meet lecturers' expenses. (Information, Peter Edmonds)

DEPOSITORY BANK ACCOUNTS. Canada and Yugoslavia have been added to the list of countries (England, France, Germany, Italy, Spain, Japan) where IEEE members may pay dues and fees in local currency, and non-members may pay for IEEE products. Depository bank in Canada is Canadian Imperial Bank of Commerce, Toronto, corresponding with Chase Manhattan, New York. . . In Japan a separate account has been opened in the branch of Chase Manhattan to speed the collection of advertising and convention accounts-receivable. (Information, Bill Keyes)

SECTION MANUAL is undergoing face-lifting. It will come out in late December with all parts between two board covers. Two main parts: Sections Operating Guide; Constitution, Bylaws, Statements of Policy. Also 13 thumb-indexed Guides to the specialized Section jobs to be done.

MEMBERSHIP BROCHURE is being updated under aegis of M&T. Units should order the desired number of copies now for December delivery. . . With changes in dues and those flowing from Constitution revision, old brochures are hopelessly outdated and should be destroyed.

\*\*CAREER GUIDANCE. October-November are golden-opportunity months to cement contacts with high schools and colleges locally. Appropriate units are Sections, Subsections, and Chapters. The need and appropriateness of IEEE's helping recruit electrical engineering college freshmen is widely recognized in the Sections, but some Sections have been quicker than others to organize a program.

"Your Challenge in Electrical Engineering," a staple guidance brochure for many years, has been reprinted in a new handy format and is now available for Sections' use. Also available are "throwaway" guidance pamphlets. (Samples, quantity orders, Emma White)

HOMETOWN PUBLICITY. Results of IEEE elections of officers, Directors, and Fellows will become known the first week in December. Also, IEEE board and committee appointments are imminent. (See items above.)

Election of a Section member as Fellow, award winner, or to office makes prime local newspaper copy. Embodiment in type benefits both Section and Institute; it pleases the man, gratifies his co-workers, family, neighbors, boss, and secretary. . . Is your Section equipped to spot such items and place copy and glossies with the press? Consult "Section Public Relations and Publicity Guide." (Jack Kinn)

STUDENT NEWS

STUDENT OFFICERS' NAMES and membership numbers should be reported to IEEE as soon as elected. Don't neglect this and thereby leave your Branch dangling. . . Beginning with this issue, E. E. is being mailed to the Student Branch chairman. (If we don't have his name and address, what happens?) . . . Feel free to write Bob Asdal at IEEE. He can use news, pictures, ideas,

in the new Student Newsletter. Make courtesy copies for your Counselor. . . Some Branches rise higher than others. So will their chairmen in years to come. Watch!

BRANCH REPORTS. Bylaw 407.10 requires brief reports of each meeting to be sent to the General Manager; and at the close of the academic year a financial statement.

REMEMBER BEN FRANKLIN? Latest Student Branch promotional gimmick is a button-badge to be worn on campus, depicting the inventor of bifocals and the lightning rod, flattened against a strong electric field (Spectrum, Sept., p. 9). Electronic calculators valued at \$395 a-piece are being offered in contest for the best 50-word Student interpretation of the button's hidden meaning.

(Plain as day. Ben's being struck by lightning in retribution for the "hard-to-be-governed passion of my youth, which," he says in his autobiography, "hurried me into intrigues with low women that fell in my way, attended with some expense." That's 50 words, and before Jan. 15, '73 deadline—Ed.) (Entry blank, Bob Asdal)

#### \*\*TOOLS AND AIDS

ORGANIZATION ROSTER. Departing from past practice the Roster issued in September was a Supplement to that of March 1972, still current. The Supplement, essentially, is a replacement of pp. 20-66 of March Roster, covering details of IEEE Areas, Councils, Sections, Subsections, Chapters, many of which changed personnel at midyear '72.

\*\*WHERE TO FIND IT. Where did I see it? Where can I find it? These questions haunt the busy committeeman. The Membership Directory is simple as to contents, easy to retrieve; the Organization Roster a bit more comprehensive and elusive. Other primary documents are complex, deserve frequent perusal, are easily mislaid—they call for 3-ring binder treatment. The knowing chairman, vice chairman, and secretary so preserve latest available versions. Issues of E. E. are pre-punched for such binders.

#### \*\*FOR YOUR INFORMATION

JOHN L. CALLAHAN died Aug. 30. From day of IEEE Merger until his retirement last January he had been a consultant to General Manager Fink. One of his later special assignments had been mellowing Institute relations with Life Members and other old-timers.

This first break in the rollcall of Don's immediate staff, which had been without a necrology for more than 9 years, is keenly felt. October Spectrum carries an obituary (p. 121). E. E.'s editor paid his tribute at the time of Cal's retirement (E. E. Feb. '72, pp. 7-8).

\*\*SAFETY VALVES. Constructive things have come from people blowing their top. This is "communication up" as contrasted with the more common "communication down." Four media are conveniently at hand: 1) Spectrum's "IEEE Forum," monthly feature, established in July 1966. 2) Section and other forums held at the principal conventions and conferences. 3) The Group/Society Newsletters; and 4) E. E., whose masthead carries notice of its desire to carry communications relating to Institute management up, down, and across--for that's what the "among" means.

Overriding all three is the direct avenue into BofD through the Regional and Divisional Directors, all of whom have listening and sympathetic ears.

WOMEN PRESS RIGHTS HERE, TOO. A respected yet somewhat irate member—Ms. pinned Don Fink's ears back for larding our membership application forms with he-his-hims, and asked blithely how we expected to enroll women engineers in any numbers that way. The criticism is taken seriously. More about it later.

Note: A quick run of the vacuum cleaner over the Constitution picked up some pay-dirt in Art. VIII and Art. IX, Sec. 6. Since it pinned male bias on the offices of President and Directors, we went no farther. The Bylaws may need dry cleaning or painting. —Ed.

MEMBERSHIP TOTALS still hover around the 160,000 mark. As of July 31 non-Student members total was up 1,000 over a

year ago; Students down 2,000—nearly 12%. Permanent statistics are based on Dec. 31 for year-to-year comparisons for the record.

IEEE LIFE INSURANCE. (Cf. E. E. Oct. '70, p. 5; Feb. '71, p. 8.) A leading consumers' publication, in a booklet on Life Insurance, gives a tabulation of term-policy offerings by 9 companies (including the 2 largest U. S. proprietaries and 2 mutuals), and places the IEEE Group Plan at the head of the list in least average cost per \$1,000. (Inquiries: Administrator, IEEE Group Insurance Program, 1707 L St., N. W., Suite 800, Washington, D. C. 20036)

COMPUTER BEING SHARED. (E. E. Dec. '68, p. 7; Feb. '71, p. 8). The IEEE computer is shared on a no-loss basis with other educational, non-profit organizations, previous takers including the American Institute of Physics (AIP) and Drug and Therapeutic Information. Now

has been added the member file and auxiliary services of Association for Computing Machinery (ACM). (Leads, Bill Keyes)

#### \*\*WELCOME ABOARD!

##### New Sections:

Australian Section, "Down Under."  
Panama Section, comprehending both the Republic and the Canal Zone.

##### New Group/Society Chapters in Sections:

Alabama Section: Industrial Applications Group Chapter.  
Boston Section: Circuit Theory Society Chapter.  
Hamilton Section: Joint Power Engineering Society/Industrial Applications Society Chapter.

##### Reconstituted Chapters in Sections:

Ottawa Section: Joint Audio & Electroacoustics Group/Circuit Theory Group/Electron Devices Group Chapter (formerly A&E Chapter).

\* \* \*

##### Centerfold pages:

Ivory - Nominations, Officers  
Canary - Questions, Candidates  
White - Bylaws  
Café - Spectrum Deadlines  
Blue - Lecture Tours  
Green - TAB News  
White - Policy Statements

##### Pages:

4A-4B  
4C-4D  
4E-4F  
4G-4H  
4I-4J  
4K-4L  
4M-4N

IEEE WASHINGTON OFFICE FUNCTIONS  
(Prepared by Ralph L. Clark, Manager)

The Washington office is established as a service to the Institute, particularly to develop liaison with the Congress and Departments and Agencies of the Executive Branch by making the technical-scientific expertise of the Institute and its members available.

Several committees of the Congress are concerned in various ways with subjects which have a high technical content. The most deeply involved are the House Committee on Science and Astronautics; the House Committee on Commerce, particularly its Communications Subcommittee and the Senate Committee on Commerce, with its Communications Subcommittee. The Appropriations Committees and the Armed Services Committees of both houses from time to time have under consideration matters concerned with science and technology. The Committee on Foreign Affairs in the House has a Subcommittee on National Security Policy and Scientific Development. The Committee on Government Operations of the House, particularly the Subcommittee on Legislation and Military Operations has from time to time been extensively concerned with matters like

communications satellites, weapons systems, and the management of their procurement. The Armed Services Committee of the Senate has an ad hoc Committee on Research and Development.

Important opportunities can be developed for liaison with Independent Agencies (like the Federal Communications Commission and the Federal Power Commission) and Departments and Agencies of the Executive Branch. The FCC deals with many problems of interest to the members of the Institute and several of its Societies and Groups. The National Science Foundation is a source of much information and from time to time presents important opportunities where the Institute might provide assistance.

Scientific activities encompassed by the membership and organizations of the Institute permeate the entire structure of our government. The opportunities for profitable interaction between the Institute and the government are limited only by our sensitivity to developing questions, problems, and issues and our ability and willingness to render assistance.