

# ELECTRICAL ENGINEERING®

This is issue number 51. But to some newly elected or appointed IEEE leaders, this may be the first issue of "Electrical Engineering" (EE) that you are reading. So here is the secret formula for deciphering our content.

This chronicle is dubbed "a management newsletter on IEEE operations." We try to make the material useful but readable. We will refer you to any previous articles on the subject that have appeared in E. E. or "Spectrum." This is intended to be a working document so don't be afraid to mark it up. Keep these newsletters near your By-laws, Constitution, and Statements of Policy because we will often refer to them to prove a point. When more information is available, we'll tell you how to get it.

I guess we're not always concise, but we do have some important items to print. At this point, preamble ends, newsletter begins.

## SOCIO-ECONOMIC

PENSION REFORM LEGISLATION was scheduled for a vote by the members of the House of Representatives while this issue of E. E. was being printed. Current indications are that the House bill will contain those provisions that IEEE and other engineering societies have been fighting for. If there are any differences between the bills passed by the Senate and House, a most likely occurrence, a joint committee of the two branches of Congress would be formed to reach a compromise. This new proposal would then be revoted upon and, if the compromise is accepted by both branches, sent to the President for his signature. When this vote takes place, you should urge your fellow engineers to watch how their representative acted. A "thank you" letter if he voted favorably as well as a critical letter if he voted against

our bill will help reenforce the idea that we are going to carefully watch the actions of our legislators. This will aid us in any future efforts to pass needed legislation.

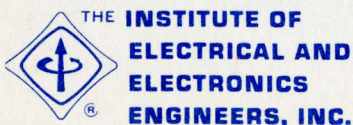
ENERGY R&D LEGISLATION was supported by IEEE and six other engineering societies in statements sent to Congress. The societies support passage of S. 2744 and H. R. 11510 which would create the Energy Research and Development Administration. This new body would have the central responsibility for managing R&D programs pertaining to all energy sources. (See Spectrum, Feb., p. 121).

JOINT ENGINEERING SOCIETY Legislative Forum was held in Washington, D. C. during the last week in February. Assistant Senate Majority Leader Robert C. Byrd (West Virginia), Secretary of the Interior Rogers C. B. Morton, and Senator Frank Moss (Utah) were scheduled to deliver major addresses. The Institute's Robert Rivers, debated Patent Rights and Patent Reform with Robert Kuntz, a Past President of the California Society of Professional Engineers.

CONGRESSIONAL RECEPTION, sponsored by the Government Relations Committee of United States Activities Committee (USAC), was designed to make the members of Congress more aware of the Institute and our activities. The reception was held on February 27th, following the conclusion of the Legislative Forum. Acting as the Congressional hosts were Senator Frank Moss (Utah) and Representative Olin Teague (Texas).

## TOP-SIDE

NEW OFFICERS officially took their posts as of the first of the year. A complete list



**ELECTRICAL ENGINEERING®** is published bi-monthly by IEEE, 345 East 47 Street, New York, N.Y. 10017

**Martin Gitten, Editor**



of the current Board of Directors (BofD) and Executive Committee (ExecCom) appears on page 4-A and in Spectrum, Jan., p. 6.

PRICE WATERHOUSE has been retained as the auditor for 1974 by the BofD.

### CONVENTION NEWS

IEEE INTERCON '74 is almost here. A Guide to the Sessions is enclosed on page 4-E. The exhibition opens at the New York Coliseum on Tuesday, March 26th. See you there. (See Spectrum, March, p. 99, Feb., pp. 90-93, Jan., p. 10.)

IEEE INTERCON and NEREM will merge to form a major new eastern seaboard conference, effective in the spring of 1976. Conferences already planned (NEREM' 74 and IEEE INTERCON '74, '75) will still be held. The new conference will be managed by Electrical and Electronics Exhibitions, Inc. (EEEI), the organization which currently manages IEEE INTERCON and WESCON. Dates for the first joint conference will be May 11-14, 1976 in Boston. The conference will alternate, thereafter, between New York and Boston.

SOVIET UNION will be exhibiting at IEEE INTERCON '74 for the first time. Although USSR scientists and technologists have attended the convention in a continuing exchange program between IEEE and the Popov Society, and delivered technical papers in prior years, this marks the first time they have ordered exhibition space.

EMILIO Q. "MIM" DADDARIO, Director of the newly created Office of Technology Assessment (OTA), will be the featured speaker at the IEEE INTERCON Annual Banquet. This will be one of his first major addresses since assuming this new post. Mr. Daddario is a former Congressman from Connecticut.

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.

COMMITTEE ON THE SOCIAL IMPLICATIONS OF TECHNOLOGY (C-SIT) will hold an open meeting in the Terrace Ballroom, Statler-Hilton Hotel, New York City on Monday, March 25th from noon to 2 p. m. It is open to all IEEE members who want to learn more about this committee's activities.

MANAGEMENT AND TECHNICAL films will be shown at the New York Coliseum during IEEE INTERCON. The technical films will be on the topics of computers, communication, space, energy, and other subjects. The management films will deal with such areas as Effective Executive, Motivation and Productivity, and Management by Objectives. Check your program for a schedule of all the films.

### PRODS AND OPPORTUNITIES

CANDIDATES ARE BEING SOLICITED for IEEE committee and board activities. There are nineteen standing committees and boards that need eager volunteers to work on them (Bylaw 304.2). The general qualifications for service are: competence; experience; willingness to take the task; availability of time to participate; enthusiasm; and vigor. Two nomination forms are enclosed in this issue of E. E. (pp. 4C-D). Deadline for receipt of your recommendations is June 1, 1974. The ability of your Institute to provide those services designed to aid you depends on getting interested people to serve on these committees. (Spectrum, Mar., p. 74)

NOMINATIONS FOR REGIONAL DIRECTOR (Regions 2, 4, 6, 8) must be submitted by the Regional Committee to the BofD by April 30. (Bylaw 313.4) Each Group and Society in Divisions II, IV, and VI have been requested to submit at least one nomination for Divisional Director by March 1 (Bylaw 310.2).

QUALIFIED VOLUNTEERS NEEDED! A committee on fiscal controls was sanctioned

by the ExecCom to review and coordinate the performance, costs, and services principally performed in the areas of cash and mail order handling, computer usage, accounting and membership records between the IEEE staff and other organizational units. In addition, the committee will explore current business systems, office procedures, and employment practices. Headed by Dr. B. O. Weinschel, formerly Chairman of the TAB Finance Committee, this new committee will report directly to the Treasurer of the Institute. All individuals with operating experience in the above-mentioned areas and interested in assisting this committee as expert consultants are invited to participate. The committee is also interested in receiving the names of other people (they do not have to be members of IEEE) who would make good members of this group. Members are invited to send in case histories of problems and/or suggestions on how to improve services performed for you or members of your organizational unit. (Send nominations and suggestions to: Dr. B. O. Weinschel, Box 576, Gaithersburg, Maryland 20760 or telephone (301) 948-3434.)

### TOOLS AND AIDS

CONSTITUTION, BYLAWS, AND POLICY and Procedures Manual have been updated to include all amendments through January 1974. Additional copies are available from Headquarters. (Write Emily Sirjane.)

USAC will consider financial support of projects involving professional activities of interest to U. S. members. A Section Funding Proposal form has been printed on pp. 4G-4J. Completed forms should be sent to your Regional Director.

### REGIONAL AND SECTION NEWS

BEWARE THE AX. February 28th is the date when unpaid members are dropped from the books. Sections and Chapters should make sure that everyone is aware of this date. History has shown that

personal contact is the best way for getting delinquent members to remain active. UPGRADING PROGRAM is being stepped up to encourage members to hold the highest grade for which they are qualified. Check Bylaw 105 to see if you qualify for a higher grade of membership. If you feel you do, write for a transfer form from Headquarters. (Emily Sirjane)

"SOCIETAL NEEDS OF YOUNG ENGINEERS" is a report that has been compiled and accepted by the Regional Activities Board (RAB). Copies have been sent to all Section Chairmen. It is urged that all Section Executive Committees discuss the findings in the report and determine what new programs may be necessary.

REGIONAL OUTSTANDING LECTURE TOUR series is looking for names of new speakers. Send your name, topic, and the name of a reference who has heard you speak to Dr. Peter Edmonds at Headquarters. The list of available speakers will be updated in April.

MEETING ACTIVITY and financial reports were due on February first. Your rebate will be held up until the reports are received.

### STUDENT NEWS

MEMBERSHIP SALE DAYS began March first. From that date until August 31st, IEEE Student membership is only \$4. Other bargains available during this period are Group/Society membership for only \$1 each and "Proceedings of the IEEE" for only \$3.50. The members you sign up now can be included in planning your fall activities. If you need more Student membership brochures, needle Bob Asdal.

STUDENT ACTIVITIES COMMITTEE (SAC) and the Student Policy and Planning Committee will hold a joint meeting during IEEE INTERCON '74. Scheduled date for the joint get together is Monday, March 25th at New York's Statler-Hilton Hotel. If you have any suggestions or ideas that you want



discussed, contact Bob Asdal or your Regional SAC Chairman prior to the meeting.

STUDENT SLIDE-TAPE presentation, for use in membership promotion, is being prepared for possible 1974 distribution. It will contain visual examples of what a Student member can derive from IEEE. However we would like more examples of what your Chapter is doing. An example of the types of pictures we are looking for is printed below. These are Student members



viewing an exhibit at WESCON. What is your Chapter doing? Send your action slides to Bob Asdal. Use 35mm color film and send a caption for each picture submitted. Ten dollars will be paid for each photograph used. (Deadline May 15, 1974)

VINCENT BENDIX AWARDS were conferred on eight college IEEE Branches. Receiving awards ranging from \$150 to \$350 were: University of Alberta; University of Detroit; University of Illinois (Urbana), Laval University (Canada), Lowell Technological Institute; University of Nebraska; South Dakota State University; and University of Wyoming. Honorable mentions were given to Branches at: New Mexico State University; Prairie View A&M University; University of Notre Dame; and Old Dominion University. Abstracts of the winning proposals will be sent to each IEEE Student Branch prior to next year's project applications deadline. (Spectrum, Mar., P. 116)

TAB NEWS

IEEE RECEIVED PRAISE from Dr. Peter A. Morris, Director, Office of Operations Evaluation of the Atomic Energy Commission (AEC). Speaking at a luncheon during a three-day seminar on Reliability in Nuclear Power Generating Stations, held in New York City, Dr. Morris announced that the AEC is awarding a contract to assist IEEE in putting together a handbook on reliability of electrical and electronic equipment. He said this is being done "because IEEE is further along in thinking reliability than some other groups." Commenting favorably on the reliability seminars organized by IEEE Standards, Dr. Morris noted that "we in AEC are very enthusiastic about what it (IEEE) is doing."

"ENERGY AND THE ENVIRONMENT" was the topic of a three-day seminar held in Albany, New York with approximately 30 New York State Legislators and 50 professional society delegates representing AISLE (An InterSociety Liaison committee on the Environment). Chairman of the Planning Committee was Mr. Bernard H. Manheimer, who has served as chairman of the Technical Advisory Board's (TAB) Environmental Quality Committee. The IEEE, through this committee, was instrumental in organizing AISLE. AISLE is made up of delegates from 25 professional societies dedicated to interaction with state and local governments. (Spectrum Feb. p. 94)

CHAIRMAN of the Technology Forecasting and Assessment (TFA) committee is Dr. Leon K. Kirchmayer.

EDUCATIONAL ACTIVITIES

FOUR ONE-DAY SHORT COURSES will be offered during IEEE INTERCON. Details are printed on p. 4F.

THREE NEW CASSETTES have been issued in the Soundings and Cassette Colloquia series. "Women in High Technology Industries" was a technical session recorded at WESCON last September. The Colloquia



COMPOSITION OF THE 1974 IEEE BOARD OF DIRECTORS

DIRECTORS-AT-LARGE

Elected by members

- 1 John J. Guarrera  
President
- 2 John D. Ryder  
Vice President
- 3 Robert H. Tanner  
Senior Past President
- 4 Harold Chestnut  
Junior Past President

DIRECTORS-AT-LARGE

Elected by Assembly

- 1 Frank S. Barnes  
Vice President  
Publication Activities
- 2 Arthur P. Stern  
Vice President  
Regional Activities
- 3 Robert F. Cotellessa  
Vice President  
Technical Activities
- 4 F. C. Kohli  
Director, Region 10  
1973-74
- 5 Seymour Cambias, Jr.  
Secretary
- 6 Joseph K. Dillard  
Treasurer
- 7 Robert M. Saunders  
Chairman, Educational  
Activities Board
- 8 Harold S. Goldberg  
Vice Chairman, Technical  
Activities Board
- 9 Donald G. Fink  
Executive Director

DIRECTORS EMERITUS

- Alfred N. Goldsmith  
also Editor Emeritus
- Elgin B. Robertson, Sr.

REGIONAL DIRECTORS

Elected by Regional members

- 1 Richard C. Benoit, Jr. 1974-75
- 2 Leland D. Whitelock 1973-74

- 3 W. L. Sullivan 1974-75
- 4 Alvin A. Read 1973-74
- 5 Robert M. Shuffler 1974-75
- 6 Einar E. Ingebretsen 1973-74
- 7 George Sinclair 1974-75
- 8 C. Reginald Russell 1973-74
- 9 Jose Roberto C. de Lacerda 1974-75

DIVISIONAL DIRECTORS

Elected by Divisional members

- I John Zaborszky 1974-75
- II Anthony J. Hornfeck 1973-74
- III Robert D. Briskman 1974-75
- IV Leo Young 1973-74
- V A. S. Hoagland 1974-75
- VI Robert W. House 1973-74

EXECUTIVE COMMITTEE

- Guarrera (Chairman)
- Ryder (Vice Chairman)
- Fellow
- Life Member Fund
- Admissions and Advancement
- History
- Membership and Transfers
- Five-year Review and Surveys
- Regional Activities
- United States Activities
- Technical Activities
- Conference
- Barnes Publication Activities
- Cambias Tellers
- Constitution
- Bylaws and Policies
- Finance
- Employee Benefits
- Investment
- Audit and Real Estate
- Chestnut Intersociety Relations
- Long Range Planning
- Nominations & Appointments
- Public Relations
- Saunders Educational Activities
- Awards
- Fink (General Manager)

(All terms are one year except when noted.)



# Quick Guide to Sessions

All at the Statler Hilton Hotel

<b>MONDAY 25</b>	<b>TUESDAY 26</b>	<b>WEDNESDAY 27</b>	<b>THURSDAY 28</b>
<b>MORNING 9:30am – 12:30pm</b>			
A Alternative Energy Sources <i>Grand Ballroom</i>	1 Electronic Calculators: Market, Design, Applications <i>Grand Ballroom</i>	15 Technology Assessment and the Engineer <i>Grand Ballroom</i>	28 Using Memory Today <i>Grand Ballroom</i>
B Clinic on Semiconductor Bonding (Panel) <i>Georgian Room</i>	2 Imaging with Charge Transfer Devices <i>Terrace Ballroom (Lobby fl)</i>	16 Data Base Systems – A Technical Perspective <i>Terrace Ballroom (Lobby fl)</i>	29 Alternatives to Random Logic <i>Terrace Ballroom</i>
C Managing the Engineer – Art, Science or Black Magic <i>Providence Room</i>	3 The Foreign Thrust to Capture U.S. Markets <i>Georgian Room</i>	17 Microprocessor Archi- tectures <i>Georgian Room</i>	30 Solid State Systems: Consumer and Industrial <i>Georgian Room</i>
D Flexible Composites in Printed Circuitry (Part 1) <i>Gold Ballroom</i>	4 The Changing Face of CATV <i>Penn Top South (18th fl)</i>	18 Packaging Concepts for Solid State <i>Penn Top South (18th fl)</i>	31 The Changing Marketing Interface <i>Penn Top South (18th fl)</i>
E Open Forum: The Engineer and Social Values <i>Terrace Ballroom</i>	5 The Semiconductor Crunch (Panel session) <i>Gold Ballroom</i>	19 Switching Systems Control by Minicomputer <i>Gold Ballroom</i>	32 Growth Potential in New Microwave Semiconductors <i>Gold Ballroom</i>
	6 Radio Amateur Space Communication <i>Sky Top Room (18th fl)</i>	20 User Software for Auto- matic Test Equipment <i>Sky Top Room (18th fl)</i>	33 Required and Available Instrumentation Systems <i>Sky Top Room (18th fl)</i>
	7 Testability – Key to Auto- mation in Circuit Testing <i>Penn Top North (18th fl)</i>	21 New Technology in Telephones <i>Penn Top North (18th fl)</i>	34 Earth and Ocean Physics Application Program <i>Penn Top North (18th fl)</i>
<b>AFTERNOON 2pm – 5pm</b>			
F Plasma Technology & Applica- tion to the production of power <i>Providence Room</i>	8 Point-of-Sale Systems (Panel session) <i>Grand Ballroom</i>	22 Developing the New End-Use Markets for Electronics <i>Grand Ballroom</i>	35 High-Density Semiconductor Memories <i>Grand Ballroom</i>
G Engineering Applications of Superconductivity <i>Georgian Room</i>	9 CCDs in Analog Signal Processing <i>Terrace Ballroom (Lobby fl)</i>	23 Recent Advances and Trends in Computer Storage <i>Terrace Ballroom (Lobby fl)</i>	36 Solid State Systems for Automotive Electronics <i>Terrace Ballroom (Lobby fl)</i>
D Flexible Composites in Printed Circuitry (Part 2) <i>Gold Ballroom</i>	10 How Will Computing Costs Come Down? <i>Georgian Room</i>	24 Microprocessor Applications <i>Georgian Ballroom</i>	37 Venture Capital: The Risk-Reward Business <i>Georgian Ballroom</i>
E Open Forum: Energy and Social Values <i>Terrace Ballroom</i>	11 New International Markets <i>Penn Top South (18th fl)</i>	25 Electronic Displays in Action <i>Penn Top South (18th fl)</i>	38 Data Networks <i>Penn Top South (18th fl)</i>
	12 Optical Communications <i>Ivy Suite (Ballroom fl)</i>	26 Control and Instrumentation Systems (Panel) <i>Gold Ballroom</i>	39 New Instruments, New Concepts, New Technology <i>Gold Ballroom</i>
	13 Automatic Test Equipment – Lessons Learned <i>Sky Top Room (18th fl)</i>	27 The Uncommon Carrier – Problems and Plans (Panel) <i>Sky Top Room (18th fl)</i>	40 Go/No-Go Testing – A Thing of the Past? <i>Sky Top Room (18th fl)</i>
	14 Investment Plans for Engineers and Employers <i>Penn Top North (18th fl)</i>		
<b>EVENING 8pm – 10:30pm</b> Highlight Session Affluence and Effluence <i>Terrace Ballroom</i>		<b>EVENING 8pm – 10:30pm</b> Feature Session New Advances in Para- psychology <i>Grand Ballroom</i>	



IEEE/EAB 1974 SHORT COURSES

<u>DATE</u>	<u>COURSE AND DIRECTOR</u>	<u>LOCATION</u>
Tuesday, 3/26	Computer Automated Measurement and Control (CAMAC) R. S. Larsen Stanford University	Engineers Club
Wednesday, 3/27	Minicomputers: Hardware, Software, and Applications J. D. Schoeffler Case Institute of Technology	Engineers Club
Thursday, 3/28	Computer Aided Filter Design George Szentirmai Cornell University	Engineers Club
Friday, 3/29	How to Start and Finance a Business Donald M. Dible The Entrepreneur Press	United Engineering Center

Registration

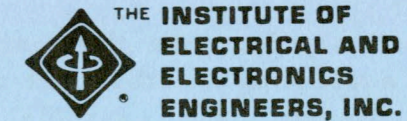
Enrollment is limited, therefore persons interested in taking these courses are urged to enroll early. For an enrollment form, write: Mrs. Emma White, IEEE, 345 East 47th Street, New York, New York 10017.

Fee

All courses, except "How to Start and Finance a Business," cost \$35 for IEEE Members, \$25 for IEEE Student Members, and \$55 for non-Members of the Institute. The business course costs \$40 for IEEE Members, \$25 for IEEE Student Members, and \$60 for non-Members of the Institute. For all courses at the Engineering Club, an optional lunch will be served at a cost of \$10.

When

All courses will be from 9:00 a. m. to 4:00 p. m. Date and location of the course offerings are shown above.



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

GUIDELINES FOR APPLICATION TO USAC FOR FUNDING OF SPECIAL SECTION PROJECTS INVOLVING PROFESSIONAL ACTIVITIES

Preamble

The Institute desires to foster the development of professional activities on the local level in the belief that through such activities member participation as well as the member base will be strengthened. Concomitantly this strengthening of the Section's activities will provide a worthwhile additional mechanism for its members to reach out to its various constituencies and publics to demonstrate the value and viability of the electrical engineering profession.

To insure uniformity in the evaluation of proposed projects by Sections, hence the awarding of funds, the following guidelines have been established.

- 1.0 All Sections in Regions 1 - 6 are eligible for SPA funds.
- 2.0 Allocation of funds will be at the discretion of USAC. While timing can be an important factor in the allocation process, allocations will most likely be made based on the perceived value of the effort to the overall professional goals of the Institute.
- 3.0 STATEMENT OF OBJECTIVES AND HOW ACHIEVEMENT WILL BE MEASURED
  - A. Please describe long-term and short-term objectives of this project.
  - B. Quantitatively describe the overall results you expect to achieve at the completion of the project. For example, if the project objective was: "to develop a technological forecasting capability to aid IEEE members in assessing their career opportunities," one possible overall quantitative result might be "to publish definitive forecasts of a technology's impact on the environment, its probable future direction in software/hardware production, probable contribution to GNP, for twenty technical disciplines."



FISCAL YEAR 19 \_\_\_\_\_



Project	
Project Director	(Name)
	(Initials)

C. Quantitatively describe the methods you propose to use in evaluating whether the above overall results were achieved. For example, having published the twenty forecasts, one could then survey a sample of IEEE members derived from the list of purchasers of the forecasts to assess whether the forecasts were indeed of help to the member in his career planning (the cost of such a survey should, of course, be included in the Proposal Budget).

4.0 PLANS FOR ACHIEVING OBJECTIVES

A. Describe what will be done and when (including Milestone Chart - see example below).

MILESTONE CHART - EXAMPLE

TASK	Jan		Feb		Mar		Apr		May		Jun		Jul	
	15	30	15	30	15	30	15	30	15	30	15	30	15	30
1. Determine Forecasting Techniques														
2. Create Forecasting Survey Form														
3. Mail Survey														
4. Batch returns for keypunch														
5. Process data														
6. Evaluate data														
7. 1st Draft, preliminary report, etc.														

B. In determining financial elements of the proposal, it may turn out that local temporary help will be required. An additional worksheet is available from the USAC secretariat to further enumerate such expenses.

5.0 ALL PROPOSALS SHOULD BE SUBMITTED, WITH APPROVAL OF THE SECTION EXECUTIVE COMMITTEE, TO:

1. Cognizant Regional Director, AND COPY TO:
2. USAC Secretariat  
IEEE  
345 East 47th Street  
New York, New York 10017

STATEMENT OF OBJECTIVES:

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HOW ACHIEVEMENT WILL BE MEASURED:

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PLANS FOR ACHIEVING OBJECTIVE (Complete Milestone Chart on reverse side):

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Please use additional sheets if the size of the project requires more space to supply the information needed for evaluation



MILESTONE CHART

TASK	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sept		Oct		Nov		Dec	
	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30
1.																								
2.																								
3.																								
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6.																								
7.																								
8.																								
9.																								
10.																								

BUDGET INFORMATION	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sept		Oct		Nov		Dec	
	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30	15	30
Income																								
Expense																								
Total																								

FINANCIAL INFORMATION

	Current Year Budget	Estimated 1977
Total Income		
Total Expense		
Net Income Over (Under) Expense		

Approved by cognizant Division/Regional Director \_\_\_\_\_ Date \_\_\_\_\_

Approved by Chairman, USAC \_\_\_\_\_ Date \_\_\_\_\_



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).

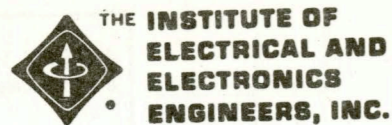
\_\_\_\_\_  
Date

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

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

\_\_\_\_\_  
Address





THE INSTITUTE OF  
ELECTRICAL AND  
ELECTRONICS  
ENGINEERS, INC.

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.



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



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.



# TECHNICAL ACTIVITIES BOARD

RECOGNITION FOR SPECIAL SERVICES

IEEE certificates have been most frequently used for presentation in recognition and appreciation of special services by members. In a few cases, a Group or Society or Conference Committee has developed a custom design for a certificate, or plaque, or other device.

Bronze Plaque

The TAB office has had a die for a heavy cast plaque in two sizes:

10 x 13 and 13 x 14 inches

These are mounted on a walnut base. The cost has been steadily increasing and is currently at \$125 and \$175, respectively. A new design has been developed that will consist of a heavy casting of the IEEE emblem, about 2½ inches in diameter and a separate rectangular plate (photo-cast raised lettering) mounted on walnut. Depending on the text for the plate, the total cost should be less than \$100.

Paperweights

We have previously announced paper weights (EE June 1973, page 4Q) consisting of a mini-certificate mounted between a black plastic base plate and a clear block, 4 x 6 ¾ inches.

If we letter the certificate, the price is \$12.

If you do the lettering, the price is \$5 each, with a 10% discount on orders of 10 to 24 and a 25% discount for quantities of 25 or more.

No lettering will be done at IEEE Headquarters on bulk orders.

Shipping weight is 12 oz.; if you wish first class or air mail please include proper amount of postage.

Keyrings

An IEEE keyring has been added to our inventories. The fob has the IEEE emblem on one side; and initial is placed on the reverse side (self-adhesive stamping).

Single keyrings are \$2 each. A discount of 10% is given for bulk orders of 25 or more; with a bulk order, we will supply the most frequently appearing initials (taken from the 1973 directory).



If you should then have a special requirement, we could send the needed initial by air-mail. The keyrings come in a box of proper size for presentation. Note that a handling and shipping charge of \$1 must be added to each order, whether for a single item or a bulk quantity.

Inquiries on any of the above items should be addressed to the TAB office; if inquiries are made by telephone, ask for Miss Bonaviso (ext. 538) for information about certificates and plaques and ask for Mrs. Herrick (ext. 536) for information about the paperweights and keyrings.

tapes are "Doing Business with the Department of Transportation" and "Energy Crisis—Engineering Solutions." These tapes can be ordered from IEEE Headquarters. (Members \$7, non-Members \$12)

#### HONORS

HARADEN PRATT AWARD was presented to Mr. Elgin B. Robertson, Sr. in recognition of his "half century of dedicated service to the Institute." The presentation was made in conjunction with a special ExecCom meeting on February 15th. The ExecCom has turned over to the Awards Board the task of nominating future recipients of this award. Their recommendations would be presented to the BofD for approval.

DONALD G. FINK, Executive Director and General Manager of the Institute, has been elected a Trustee of METRO. This is a New York chartered agency in the library field covering the Metropolitan area of New York City. He has also been appointed a member of the Board of International Operations and Programs of the National Academy of Sciences. He will represent the international interest of U.S. engineering societies.

OUTGOING BofD MEMBERS: Barrow, Carnes, Cory, Daussman, Hinton, Hobbs, Mulligan, Obregon, and Van Valkenburg were commended by their fellow Board members for their outstanding service to the Institute. We add our thanks!

FELLOW GRADE NOMINATIONS must be received by April 30th. Instructional kits with nomination forms are still available from Emily Sirjane. (See E.E., Dec., pp. 4A-B, 5; Spectrum, Dec., p. 66)

STAFF ANNIVERSARIES. At the annual IEEE Christmas Party, Stella Grazda was honored for 25 years of service to IEEE and its predecessor organizations. Those reaching 10 years with IEEE were: Mary Infante, Sylvia Kulchin, Olga Lara,

Rose Lauria, Dorothy Montana, Betty Stillman, Joseph Martucci, Herb Taylor.

#### FOR YOUR INFORMATION

FIELD SERVICES is the new official name for the Membership Services Department. The Student Activities Department will henceforth do business as the Student Services Department. Both new names have been used unofficially for some time, but these will now appear in all IEEE use. The Field Services Department encompasses: Region/Section/Chapter Support; Committee/Corporate Support; Student Services; and Membership Development. It also furnishes administrative assistance to the Life Member Fund and Long Range Planning Committees.

IEEE CONGRESSIONAL FELLOW Ronal Larson is working with several staff members of Congressman Olin Teague's House Committee on Science and Astronautics. Dr. Larson has been involved in the Committee's hearings on the Administration's science policy structure and Congressman Mike McCormack's subcommittee on energy. The IEEE Congressional Fellow is one of six engineering and science Fellows sent to Washington each year.

MEMBERS may request their names removed from lists used for commercial mailings. Address your request to Headquarters. The 1975 dues bill will be designed to facilitate handling members requests.

IN MEMORIUM Earl B. Rietz. He died on December 7th at Cedars of Lebanon Hospital, Los Angeles, California. He was Chairman of the American National Standards Institute's (ANSI) committee on Apparatus Bushing Standardization and had headed IEEE's delegation to this committee since April 1972. A Fellow of IEEE, Mr. Rietz retired from the Bonneville Power Administration in 1972.

USAC'S REPORT on their first year of operation revealed that approximately 45%



of their activities were in the technical area.

**MARK YOUR CALENDARS.** The IEEE Headquarters will be closed for the following holidays in 1974: May 27 (Memorial Day); July 4-5 (Independence Day); September 2 (Labor Day); October 14 (Columbus Day); November 28-29 (Thanksgiving); December 24 (1 p.m.) - 25 (Christmas); December 31 (1 p.m.) - January 1 (New Years).

**IMAGE OF ENGINEERS** - is it high or low? Results of a survey conducted by the National Science Foundation (NSF) appeared in Machine Design's November 15, 1973 issue. Engineers' prestige ranked fourth behind physicians, scientists, and ministers. It ranked ahead of lawyers, architects, bankers, accountants and businessmen. This same group of professions were surveyed in 1947 and engineers were seventh. By 1963, they were fifth in line. In weighing the scores developed by the survey, engineers have maintained approximately the same prestige factor in all surveys, but other professions have seen a marked decline.

IEEE EUROCON '74 will be held on April 22 through 26 in Amsterdam, The Netherlands. Program features include: controlling the future (energy and transportation), instrumentation electronics, communications for the 1980's, the computer in society, biomedical engineering, and education. (See Spectrum, Feb., p. 113 for details on a special group tour rate.)

**ENERGY CRISIS** and its affect on the United States' position of prominence amongst the world's industrialized nations was discussed in the January issue of "Professional Engineer" published by the National Society of

Professional Engineers (NSPE). Its editor J. T. Kane, noted that "disquieting trends" revealed by NSF, compounded by the energy crunch, may hasten us into an irreversible slide from technological preeminence if they remain unchecked.

### WELCOME ABOARD!

#### Top-Side Directors:

A special salute to our nine new Directors: Benoit, Briskman, Costa de Lacerda, Hoagland, Ryder, Shuffler, Sullivan, and Zaborszky.

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

Arkansas Section: Industry Applications Chapter

Central New England Council: Control Systems Chapter

Central New England Council: Manufacturing Technology Chapter

Princeton Section: Engineering in Medicine and Biology Chapter

Rochester Section: Reliability Chapter

Sacramento Section: Joint Communications/Vehicular Technology Chapter (by the addition of the latter.)

Southeastern Michigan Section: Joint Aerospace and Electronic Systems/Communications Chapter (by merging two existing chapters.)

Toronto Section: Instrumentation and Measurement Chapter

#### New Student Branches:

Universidad Catolica de Cordoba  
Cordoba, Argentina

Universidad Estadual de Campinas  
Campinas, SP, Brazil

State University College at Buffalo  
Buffalo, New York

Universidad de El Salvador  
San Salvador, El Salvador

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#### Centerfold pages:

Ivory	- 1974 IEEE BofD & ExecCom	4A
Canary	- INTERCON Schedule	4C
	- Short Courses	4D
Blue	- USAC Financial Report	4E-4H
White	- Nominations for Appointments	4I-4J
Green	- TAB News	4K