

## BOARD NOMINATES ELECTION SLATE, TAKES OTHER IMPORTANT ACTIONS

Richard W. Damon has been selected by the IEEE Board of Directors as the Board candidate for 1981 IEEE President and Robert W. Lucky was nominated to run for the Executive Vice President post. Dr. Damon, a former member of the Board, is director of Sperry Research Center's Applied Physics Laboratory in Sudbury, Mass. Dr. Lucky, 1978-1979 IEEE Vice President for Publication Activities, is director of electronic and computer systems research at Bell Laboratories in Holmdel, N.J. Detailed biographies of the two candidates were published in the April issue of THE INSTITUTE. The two nominations came on Feb. 17 in

Houston, Texas, during the Board's first meeting of the year.

Elsewhere, candidates for Regional Directors, Regional Vice Chairmen, as well as Divisional Directors were nominated by the Regional and Divisional nominating committees. A list of all official candidates appears below. As yet, no member has announced an interest in running as a petition candidate.

A summary of election deadlines, including the final date by which petitions must be turned into headquarters, appears on p. 2A-2B.

Among other actions, the Board:

### Places two proposed amendments on the 1980 ballot

The new office of President-elect and changes in the requirements for petitioners to place proposed Constitutional amendments on the ballot will be the subjects of the two Constitutional amendments to appear on this year's ballot. Under the first concept, the President-elect would serve one year on the Board of Directors, then automatically become President in the following year. During the third year, the President would spend his final year on the Board of Directors as Past President. The present situation dictates that a President is elected for the year immediately following the election, then serves for two more years on the Board, first as Junior Past President, then as Senior Past President. Approval by the two-thirds margin necessary to alter the IEEE Constitution would eliminate the current office of Senior Past President.

The second amendment provides for changes in placing amendments to the Constitution on the ballot by petition. If passed, petition amendments would be required to show signatures from at least 1 percent of the total voting members, with a majority of the Regions represented by at least 1 percent of their voting members. As it stands now, only one-third of 1 percent of the entire membership, with no stipulation on distribution of petition signatures, is re-

*continued, page 2*

## Candidate listings for 1981 IEEE offices\*

### For IEEE President, 1981

Richard W. Damon

### For Executive Vice President, 1981

Robert W. Lucky

### For Divisional Director, 1981-1982:

Technical Division  
nominees:

Division II

Joseph F. Keithley

J. Barry Oakes

J. Leon Shoheit

Division IV

G. P. Rodrigue

Allan C. Schell

Division VI

Henry L. Bachman

Lyle D. Feisel

Valdemar R. Monshaw

### For Regional Director, 1981-1982:

Regional Committee  
nominees:

Region 2

H. Mark Grove

Herbert H. Heller

Region 4

Ronald J. Fredricks

John M. Thorson Jr.

Region 6

Frederick G. Suffield

Region 8

Walter E. Proebster

E. N. Protonotarios

Region 10

T. V. Balan

David R. Hutt

Noboru Takagi

### For Regional Vice Chairman, 1981-1982:

Region 6 Committee  
nominees:

Donald L. Broderick

Ralph A. Lamm

Region 7 Committee  
nominees:

Frederick J. Heath

Walter S. Read

\*At date of publication, no IEEE member had announced the intention to run as petition candidate.

## Index of Inserts

Election Data . . . . .	2A-2B
Engineering Foundation Fellowships . . . . .	2C-2D
IEEE Functional Chart . . . . .	2E
Membership Development Newsletter . . . . .	2G-2J
Continuing Education . . . . .	2K-2L
Student Activities News . . . . .	2M



*Board nominates, continued*

quired to place a proposed amendment on the ballot. In a separate action, the Board revised Bylaws so that a petition candidate for IEEE office will similarly need the support, in the form of a signed petition, of at least 1 percent of the members eligible to vote for the office and at least 1 percent of the voting members of the major entities. This proposition will not appear on the ballot as it did not entail a Constitutional change.

**Cuts off official relations with Russia**

Acting on recommendations issued by IEEE's Transnational Relations Committee to IEEE's Technical Activities Board, the IEEE Board of Directors suspended the annual official exchange between IEEE and the Soviet Union's Popov Society. During the debate on the resolution, support of the suspension was based on the banishment of Soviet Nobel-prize winning physicist Anatoly Sakharov and the Soviet invasion of Afghanistan. The resolution passed 15-4 with seven abstentions including four from the Directors of Regions 7-10, the Regions outside the U.S., who were unwilling to influence what one termed a "purely U.S." issue. Details of this and an unrelated action taken by the U.S. State Department barring some Russian engineers from attending an open IEEE conference appear in THE INSTITUTE, April issue.

**Approves concept of 1980 dues hike**

Following a detailed presentation of IEEE's finances by Treasurer Donald S. Brereton, the Board of Directors approved in principle an increase in member dues for 1980. The exact amount has yet to be determined and will await a closer look at IEEE's financial health as seen at midyear. However, the Board's resolution anticipates that the amount will fall between \$4 and \$8.

The Board also accepted a "dues management program" proposed by Mr. Brereton which will allow for a yearly reevaluation of the dues level as compared to inflation, the performance of IEEE's non-dues income areas, and other pertinent factors. Although inflation has increasingly eroded the member dues dollar, the success of non-dues income-producing activities plus general economics have allowed the Board to avoid raising the dues since 1976. However, now that inflation has more than wiped out the last increase and the IEEE only receives an average of \$26.35 per member due to discounting for Students, retired members and the unemployed, an increase is mandated to maintain the current level of member services. Further details on these matters will be published during the year in both THE INSTITUTE and *Electrical Engineering*.

**CALL FOR ARGUMENTS AGAINST AMENDMENTS**

Arguments against the proposed Constitutional amendments (see p. 1) are being developed by Robert A. Rivers, past Division IV Director, and Frank E. Lord, associate editor of *Impact*, the Professional Activities Committees' newsletter. These arguments will be included in the ballot mailing and THE INSTITUTE's September election issue.

Anyone with arguments against the president-elect concept can send comments to Robert A. Rivers, 52 Orlando Ave., Winthrop, Mass. 02152.

Anyone who disagrees with the change in the requirements for placing a proposed amendment on the ballot can send comments to Frank E. Lord, 35 Hartford Ave., San Carlos, Calif. 94070.

**REMINDER OF NOMINATIONS DEADLINE**

Deadline date for receipt of nominations for the Medal of Honor, Major Annual Medals, and Service Award is June 1. For details refer to the December 1979 issue of THE INSTITUTE. For forms and information, contact Una B. Lennon at Headquarters.

**USAB NEWS**

**REGIONAL/DIVISIONAL FUNDS DISTRIBUTION**

Funds budgeted for local professional activities committees (PACs), through the United States Activities Board can now be disbursed directly to the Regional Director. At its Feb. 13 meeting in Houston, USAB approved a method whereby PACs will be able to receive their funds in one lump sum.

Each Regional Director will be allowed either to have his yearly funds sent directly to him or to be left in the offices of the United States Activities Board for dispersal. It is hoped that if a Director chooses to handle his own funds, the PACs will have less difficulty in obtaining money for courses, conferences, and other professional needs.

The proposal before the board, called Regional/Divisional Project 4033, grew out of problems the Chicago section PAC had reported in receiving money from the USAB.

Under the approved method, a Director who decides to handle his own funds must keep strict accounting of how the money was spent and submit a report at the end of the year. A Director who chooses to let his Region's funds remain in the Washington USAB office, in effect, delegates the accounting responsibilities to the Washington office. The Director will request funds for each expenditure and will receive periodic accounting reports by the Washington office.

At the same meeting, the USAB Board voted to disperse \$48 000 of the \$60 000 in Regional/Divisional funds that is provided for the six U.S. Regions as follows: one-third to be divided among Regions according to the number of members; one-third to be divided on the basis of the numbers of Sections; and one-third to be distributed equally to all six Regions. Further, \$12 000 will be divided among PAC Regional activities equally. The Board determined this procedure as the fairest method of allocating these funds so that each U.S. member will receive equal benefits.

**CHAPTER/SECTION NEWS**

The Communications/Acoustics, Speech and Signal Processing Chapter of the Twin Cities Section was established.

The Vehicular Technology/Communications Chapter of the Denver Section was established.

*Electrical Engineering* is a management newsletter on IEEE operations intended to encourage communication among all organizational entities and the staff. *Electrical Engineering* is published bimonthly by The Institute of Electrical and Electronics Engineers, 345 East 47 Street, New York, N.Y. 10017—Telephone 212-644-7562.

*Electrical Engineering* is sent without cost beyond dues to officers of IEEE boards, committees, divisions, societies, groups, technical councils, conferences, regions, regional councils, sections, subsections, chapters, and branches. Second-class postage is paid at Piscataway, N.J.

Names and assignments of IEEE staff members referred to in *Electrical Engineering* are listed on page 4 of *IEEE Spectrum*.



Contact: Emily Sirjane

# Election Data

IEEE BOARD OF DIRECTORS ELECTION CHART

- |   |   |  |   |  |
|---|---|--|---|--|
| 1. President  | } | Elected by all voting members of the Institute.                  |   |  |
| 2. Executive Vice President   |   |  |   |  |
| 3. Junior Past President  |   |  |   |  |
| 4. Senior Past President  |   |  |   |  |
| 5. Vice President - Educational Activities                                | } | Elected by the Assembly.   |   |  |
| 6. Vice President - Professional Activities                               |   |  |   |  |
| 7. Vice President - Publication Activities                                |   |  |   |  |
| 8. Vice President - Regional Activities                                   |   |  |   |  |
| 9. Vice President - Technical Activities                                  |   |  |   |  |
| 10. Director - Standards Activities                                       |   |  |   |  |
| 11. Secretary or Secretary-Treasurer                                      |   |  |   |  |
| 12. Executive Director  |   |  |   |  |
| 13. Director, Region 1 (Northeastern Region USA)                          |   |  | } | Elected by voting members in the respective Regions. |
| 14. Director, Region 2 (Eastern Region USA)                               |   |  |   |  |
| 15. Director, Region 3 (Southeastern Region USA)                          |   |  |   |  |
| 16. Director, Region 4 (Central Region USA)                               |   |  |   |  |
| 17. Director, Region 5 (Southwestern Region USA)                          |   |  |   |  |
| 18. Director, Region 6 (Western Region USA)                               |   |  |   |  |
| 19. Director, Region 7 (Canadian Region)                                  |   |  |   |  |
| 20. Director, Region 8 (Europe, Greenland, USSR, North Africa, Near East) |   |  |   |  |
| 21. Director, Region 9 (Latin American Region)                            |   |  |   |  |
| 22. Director, Region 10 (All areas outside of Regions 1 through 9)        |   |  |   |  |
| 23. Director, Division I  | } | Elected by voting members in the respective technical Divisions. |   |  |
| 24. Director, Division II   |   |  |   |  |
| 25. Director, Division III  |   |  |   |  |
| 26. Director, Division IV   |   |  |   |  |
| 27. Director, Division V  |   |  |   |  |
| 28. Director, Division VI   |   |  |   |  |
| 29. Director, Division VII  |   |  |   |  |



SUMMARY OF DEADLINE DATES - 1980 IEEE ANNUAL ELECTION

- Mar. 1 Regional Committees to submit slates of candidates for the office of Regional Director.
- Mar. 1 Divisional Nominating Committees to submit slates of candidates for the office of Divisional Director.
- May 1 Board of Directors to announce to the members by this date names of candidates to be elected by the members, as nominated by the Board of Directors, the Regional Committees, and the Divisional Nominating Committees, and the names of any petition candidates whose names have been announced by Feb. 25.
- May 30 Petition nominations due for candidates to be elected by the membership.
- May 30 Deadline for receipt of petitions for Constitutional amendments.
- May 30 Deadline for receipt of initial statements from all candidates for publication in THE INSTITUTE.
- May 30 Deadline for receipt of initial statements by principal initiators of Constitutional amendments for publication in THE INSTITUTE.
- June 6 THE INSTITUTE to mail copies of candidates' initial statements, as accepted, to opposing candidates, as well as statements by principal initiators to the Executive Director, by this date.
- June 20 Board of Directors statement due on Constitutional amendment proposals.
- June 20 Rebuttal statements due from all candidates for publication in THE INSTITUTE.
- June 27 THE INSTITUTE to mail Board of Directors statement on proposed Constitutional amendments to principal initiators.
- July 7 Rebuttal statements due from principal initiators of Constitutional amendments for publication in THE INSTITUTE.
- July 18 Rebuttal statements due from Board of Directors on Constitutional amendment proposals.
- August Election material published in August.
- Sept. 1 Ballots for Institute election mailed to voting members by this date.
- Sept. 26 Deadline for receipt of petition nominations for candidates to be elected by Assembly.
- Nov. 3 (12 noon) Deadline for ballot returns from voting membership.
- Nov. 14 Results of Institute election announced by this date.
- Dec. 6 Elections by the Assembly announced by this date.



# Engineering Foundation Fellowships

Contact: Irving Engelson

*Each year since the Engineering Foundation Fellowship program has been in operation, an IEEE applicant has been successful in obtaining a grant. Readers of this publication may wish to bring this announcement to the attention of interested and qualified persons.*

#### ENGINEERING FOUNDATION FELLOWSHIPS

Sponsored By  
THE ENGINEERING FOUNDATION  
with the cooperation of its  
FOUNDER SOCIETIES

American Society of Civil Engineers  
American Institute of Mining, Metallurgical and Petroleum Engineers  
The American Society of Mechanical Engineers  
Institute of Electrical and Electronics Engineers  
American Institute of Chemical Engineers

#### General

The ENGINEERING FOUNDATION announces the availability of Engineering Foundation Fellowships during 1981 for State-Of-The-Art reviews in fields recommended by its FOUNDER SOCIETIES.

The program is directed toward members of engineering faculties and industrial specialists who have established a professional reputation through publications.

A grant of \$6,000 may be awarded on a competitive basis to a member of each of the FOUNDER SOCIETIES for a proposed research review in a field of direct interest to the FOUNDER SOCIETY.

#### PROPOSED REVIEWS

Proposed reviews shall provide an analysis in depth of a specific field including recommendations on engineering research needed to advance the state-of-the-art of that field.

A list of recommended fields will be compiled by and be available upon request from the Executive Officer of the proposer's professional society.

#### EVALUATION AND SELECTION OF PROPOSALS

Proposals shall be sent to the Executive Officer of the person's professional society. A panel organized by the professional society will evaluate and select meritorious proposals. These will be submitted (in rank order) to the Projects Committee of the ENGINEERING FOUNDATION who will make the final selection of a proposal for each of the FOUNDER SOCIETIES for submission to the Board of the ENGINEERING FOUNDATION for final approval.

#### DEADLINE

All proposals being submitted to the FOUNDER SOCIETIES must be postmarked by June 1, 1980.

Proposals selected by the FOUNDER SOCIETIES for submission to the Projects Committee of the ENGINEERING FOUNDATION must be postmarked by August 1, 1980.



ANNOUNCEMENT OF FELLOWSHIPS

Selected fellows will be notified by letter from the Secretary of the ENGINEERING FOUNDATION on or about January 1, 1981, with copies to their FOUNDER SOCIETIES. The FELLOWSHIPS will be effective as of February 1, 1981. Applicants not selected will be notified by their FOUNDER SOCIETY.

FINAL REPORT

A final report by each fellow shall be submitted on or before February 1, 1982 to the ENGINEERING FOUNDATION and to the FOUNDER SOCIETY for review and consideration for publication. The ENGINEERING FOUNDATION reserves publication rights.

Appropriate recognition of the ENGINEERING FOUNDATION and the cooperating FOUNDER SOCIETY must be prominently displayed.

PAYMENTS

The ENGINEERING FOUNDATION will provide fifty per cent of the grant at the start of the fellowship and fifty per cent at the end of the fellowship when the final report is presented.

INSTRUCTIONS FOR PREPARING A PROPOSAL

The formal proposal shall contain the following information. Fifteen copies are needed.

The Cover Sheet

The first page of the proposal shall include the title of the review; name of applicant, title, institution and location; name of person financially responsible for administering the fellowship funds.

Description of Proposed Review

The next section (not to exceed four pages) shall contain the proposed review in sufficient detail to allow an evaluation of its merit on the basis of delineated approach and time required for its fulfillment. Maximum time will be one year.

Qualifications of Applicant

The next page shall describe the special qualifications of the applicant for conducting the review followed by a biographical sketch and a listing of publications.

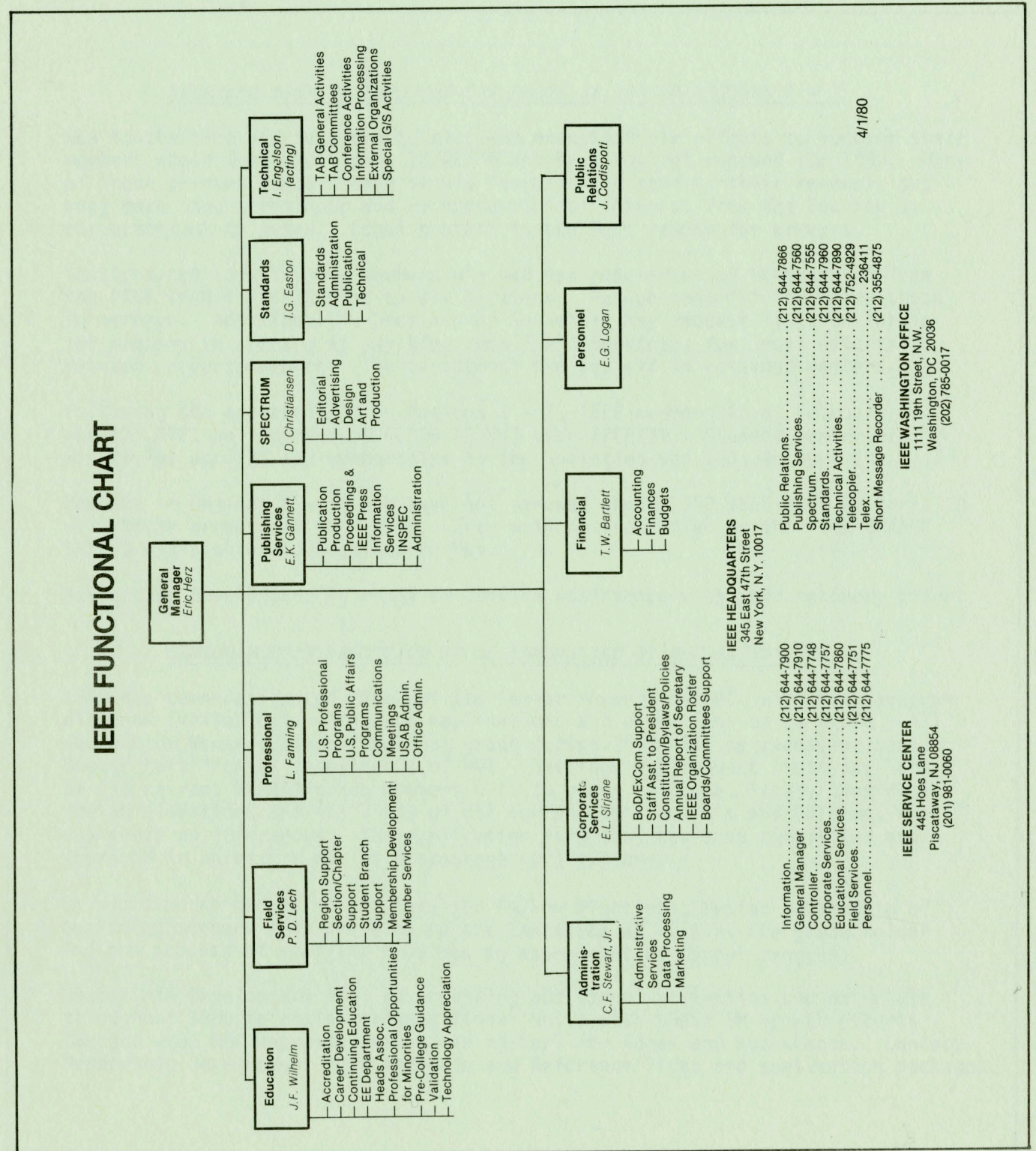
Proposed Budget

The proposed budget shall appear on the last page in specific details describing how the funds will be utilized. The budget cannot exceed \$6,000 and cannot include indirect costs. Such a fellowship award is not renewable.

ALL PROPOSALS SHOULD BE SENT TO: DR. IRVING ENGELSON, TECHNICAL ACTIVITIES DEPARTMENT, IEEE, 345 EAST 47th STREET, NEW YORK, NEW YORK 10017.



# IEEE Functional Chart







# Membership Development Committee

## FEBRUARY 29th ARREARS CUT-OFF DROPS 33,000 IN REGIONS 1 - 7

Now is the time for Sections to plan and execute their efforts to recover their members whose dues expired on 12/31/79 and have not yet renewed for 1980. Many of these arrears members have simply forgotten to send in their renewal, but many more need a reminder and an expression of interest from the Section as encouragement to renew. Local contact is the best remedy for arrears.

Sections can identify the members who had not renewed as of February 29 from the PINK CHANGE SHEETS sent to all Sections. Reason code "K" indicates those in arrears. Additionally, Sections or Societies may request lists or labels for members in arrears at any time from Field Services, for local efforts to recover arrears members. The investment can pay off in retained members.

Following the arrears drop in Regions 1 - 7, IEEE membership at February 29 was 171,872, an increase of 6,396 (3.9%) over 2/28/79. Student membership was 28,751 up 7.7% and memberships in the Societies was 183,346 up 7.2%.

Members in Regions 8 - 10 who have not renewed their 1980 IEEE dues by April 30 will enter arrears at that time. They will be identified on the PINK CHANGE SHEETS distributed to Sections in May.

Membership Development is ready to provide assistance with your recovery effort.

## SENIOR MEMBER PROMOTION TO BE EMPHASIZED BY MDC IN 1980

1980 has been designated "Year of the Senior Member" by MDC, with many program elements available to encourage applications and elevations to SM grade. All new Senior Members elected to that grade during 1980 will be receiving Senior Member certificates compliments of MDC. Sections may request lists and labels of (1) current MEMBER grade members with 10 years in grade, likely candidates for SM elevation, and (2) lists of all current Section SM's and Fellows, who may serve as references. The application form (B5) has been simplified and improved in an effort not to discourage applications.

In addition to providing the base for Fellow elections, Senior membership of qualified members adds prestige to the Institute as well as the grade holder. And the process of applying provides an assessment of career progress.

Membership Development will be providing additional activities and materials throughout 1980 to assist organizational units with their SM growth efforts. Contact your MDC Representative (see roster) for ideas and assistance. Contact Membership Development for Candidate and Reference lists and application packages.



REMINDER: INFORMATION CENTER PRICES INCREASED AS OF MARCH 1, 1980

As previously announced in "EE" and elsewhere, the prices of IEEE Information Centers were increased as of March 1st. The new prices are as follows:

MAXI (8 pockets) \$12.00 / MINI (2 pockets) \$4.00 / MICRO (1 pocket) \$3.00

See December 1979 "EE" for description and order form. (Old prices shown)

FIRST 1980 MDC MEETING HELD MARCH 1 & 2 IN SNOWY WASHINGTON, DC

1980 MDC Chairman Cal Stoutz held the first MDC meeting of 1980 on March 1 & 2 in Washington, DC. Outgoing Chairman Reed Thompson received the committee's unanimous appreciation for his innovative and enthusiastic leadership in 1979.

Committee members (see roster) reviewed the results of 1979 MDC efforts and discussed plans and objectives for Institute growth during 1980. The next MDC meeting was tentatively set for Chicago, in mid-August. MD officers of all IEEE organizational units are encouraged to make use of MDC resources.

MDC STAFF CHANGES IN PROCESS - REORGANIZATION & RELOCATION COMING

As part of the reorganization and relocation of the Field Services department, Roseann Schulz, Member Services NJ, will be assuming the responsibilities of Manager and staff secretary for Membership Development. Mark Lucas has become Manager, Section/Chapter/Student Activities within Field Services. Both Mark and Roseann report to Mrs. Patricia D. Lech, Director, Field Services.

Roseann Schulz may be reached at the IEEE Service Center in Piscataway, NJ, where her telephone is (201) 981-0060, Ext. 132.

(for MD ACTION, call Roseann Schulz, IEEE/NJ (201) 981-0060, ext. 132)

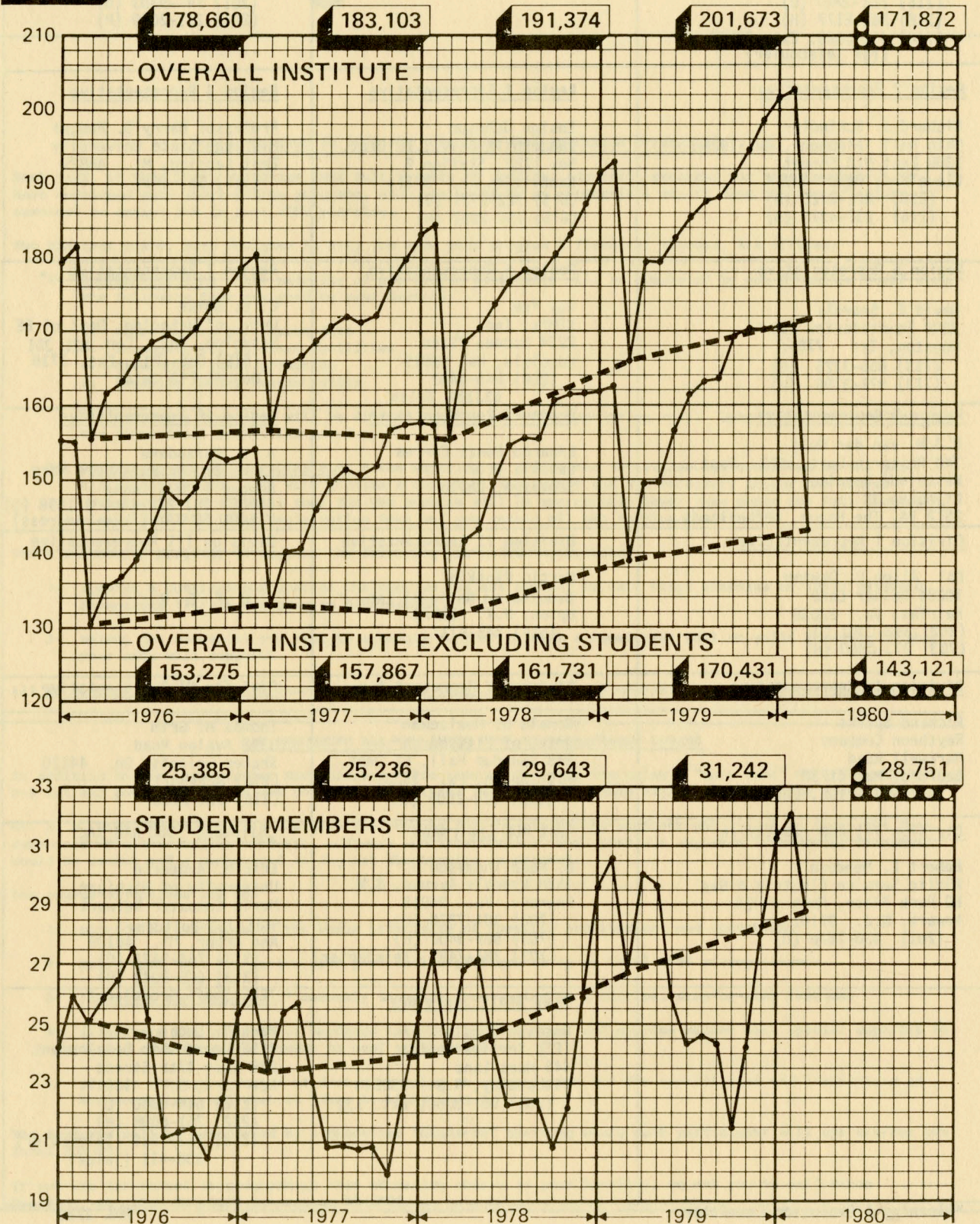


This month

Year end

# MEMBERSHIP PROGRESS

FEB 1980





<u>Chairman*</u> Calvin O. Stoutz 21 Stoney Clover Lane Pittsford, N.Y. 14534 (716) 722-2467 (O) (716) 381-2177 (H) (716) 458-1000, Ext. 73679 (for Telecopier)	<u>Vice Chairman*</u>  O P E N	<u>Region 1 Representative</u> Bernard De Marinis 87 Monmouth Road Spotswood, N.J. 08884 (201) 747-9303 (O) (201) 251-2069 (H)
<u>Region 2 Representative</u> Richard J. Schindler Ohio Bell Telephone, Rm. 1926 1300 East 9th Street Cleveland, Ohio 44114 (216) 822-2726 (O) (216) 237-4378 (H)	<u>Region 3 Representative</u> Ensign Johnson Vanderbilt Univ., EE Dept. Box 1722, Station B Nashville, Tn. 37215 (615) 322-2771 (O) (615) 292-2961 (H)	<u>Region 4 Representative</u> Professor Harry G. Hedges Michigan State University East Lansing, Mi. 48824 (517) 353-6484
<u>Region 5 Representative</u> David E. Snavely 2300 Fountainview #21 Houston, Tx. 77057 (713) 656-3225 (O) (713) 977-3796 (H)	<u>Region 6 Representative</u> Roy Yee KEM's, Inc. 2234 Hoonee Place Honolulu, Ha. 96819 (808) 845-6402 633164 Telex	<u>Region 7 Representative *</u> C. E. Spike Univ. of Waterloo, Dept of EE Waterloo, Ont., Can. N2L 3G1 (519) 885-1211, Ext. 3716 069 55 259 Telex
<u>Region 8 Representative</u> C.J.M. van der Wulp TNO Research Unit, EEG Dept. Westeinde Hospital Lijnbaan 32 2512 VA, The Hague, Netherlands	<u>Region 9 Representative</u> Eduardo Bonzi Correa Casilla 9807 Santiago, Chile	<u>Region 10 Representative</u> D. N. Purandare 31 C. Dr. Na Purandare Marg Bombay 40007, India 358867 (H) 272144 & 271898 (O) WIECOL BOMBAY (Tele. address)
<u>Division I Representative</u> Col. Allen D. Dayton 10221 Raider Lane Fairfax, Va. 22030 (202) 692-2347 (O) (703) 273-0860 (H)	<u>Division II Representative</u> Martin Plotkin Brookhaven National Lab. Upton, N.Y. 11973 (516) 345-4717	<u>Division III Representative</u>  O P E N
<u>Division IV Representative</u> Richard Sparks Raytheon Company Hartwell Road Bedford, Ma. 01730 (617) 274-7100, Ext. 4708	<u>Division V Representative</u> Ronald G. Hoelzeman Univ. of Pittsburgh 348 Benedum Hall, EE Dept. Pittsburgh, Pa. 15261 (412) 624-2805 (O)	<u>Division VI Representative</u> Thomas H. Grim 3392 Avalon Road Shaker Heights, Oh. 44120 (216) 822-3871 (216) 561-9110
<u>Division VII Representative</u> Robert E. Mendoza Public Service Electric & Gas 80 Park Place, Room 6302A Newark, N.J. 07101 (201) 430-7678 (O)	<u>Past MDC Chairman</u> K. Reed Thompson 4528 Wyndale Avenue, S.W. Roanoke, Va. 24018 (703) 387-7370 (O) (703) 989-9402 (H) (703) 387-7497 (Telecopier)	<u>Chairman, 1980 RAB SAC</u> Eric M. Aupperle University of Michigan Merit Computer Network 5115 IST Building Ann Arbor, Mi. 48109 (313) 764-9423 (O) (313) 665-8043 (H)
	<u>IEEE Staff Secretary*</u> Roseann Schulz IEEE Service Center 445 Hoes Lane Piscataway, N.J. 08854 (201) 981-0060, Ext. 132	<u>IEEE Staff Secretary*</u> Mark M. Lucas IEEE Membership Development 345 East 47th Street New York, N.Y. 10017 (212) 644-8080 (O) (212) 751-6898 (H) (212) 752-4929 (Telecopier) 236-411 (Telex)

\*Planning &amp; Evaluation Committee

MML 2/80



IEEE

Contact: Vincent Giardina

# Continuing Education Services

## NOW'S THE TIME TO PLAN FOR YOUR FALL 1980 EDUCATION OFFERINGS . . .

Each year, at this time, we advise IEEE Unit leaders to consider education programs for their members. We have developed many short-course programs, each evaluated by an appropriate expert from the Group/Society involved to assist you in your 1980 planning.

Two distinct plans, each designed to help you make your program a financial success, are offered:

- 1- COOPERATIVE PLAN - the majority of pre-course activities will be completed by our Education staff with the following four assigned to your Section:
  - a. establishing the course date
  - b. arranging for physical facilities
  - c. developing local promotion
  - d. handling "D-day" registration

Net surpluses developed will be divided equally with the sponsoring unit. Losses will be absorbed by the Educational Activities Board.

- 2- INSTRUCTOR-AND-COURSE-NOTES PLAN - the majority of pre-course activities are completed by the participating Section. We will provide a competent instructor and the necessary supporting course notes/texts. Your total cost for the program will be appreciably lower than under the Full-Service plan. Result: lower registration fees and you retain all net surpluses earned.

For a successful program, we suggest the following pre-course activities:

- 1- appoint a Continuing Education Chairperson and ask him/her to call Vince Giardina at (201) 981-0060 Extensions 174/175 for program discussion.
- 2- select the course(s) you plan to schedule (either through a newsletter poll or solid know-how of what your area will support).

All we require is a five-month lead period. Call today and bring your education programs into realization.

## EAB ANNOUNCES ALL-NEW INTEL 8085 MICROPROCESSOR COURSE

In addition to our very popular Microprocessor Programming Workshop featuring a "take home" Motorola MEK6800 D-2 Kit and power supply, we can now offer an all-new Intel 8085 Workshop with a similar "take home" feature.

Dr. E. W. Page, developer, has designed the program for the practicing engineer who wishes to learn the fundamentals of microcomputer hardware, software and interfacing. Some previous exposure to computer language would be useful and a background in digital electronics is assumed.

The course objectives are to:

- 1- provide a foundation of the basic principles of computer architecture and operation.
- 2- build upon this foundation with practical experience using an Intel 8085 microprocessor.
- 3- introduce the concepts of assembly language programming in a concise, step-by-step fashion.
- 4- illustrate the concepts of hardware interfacing in a clear and concise manner with special emphasis on design considerations common to most applications.
- 5- provide through a series of design examples an appreciation for the capabilities and limitations of microcomputers and what it takes to apply them.

The lectures will be reinforced by a practical "hands-on" training where each participant will use his/her own Intel SDK-85.

If you are interested in programming this education course in your locality, we ask you to call Vince Giardina, at (201) 981-0060 Extensions 174/175.

Please turn sheet for EAB 1980 schedule.



IEEE EDUCATIONAL ACTIVITIES BOARD 1980 SPRING/SUMMER COURSE SCHEDULE

DATE	TITLE	LOCATION
April 10	1-day Microprocessor	Billings, MT
April 11-12	Protection and Grounding of Distribution Systems	Billings, MT
April 14	How to Start a Business and Make it Grow	Atlanta, GA
April 14-15	Introduction to Solid State Power Electronics	Cincinnati, OH
April 14-15	Fiber Optics	Everett, WA
April 21-22	Mini Computer Basics	Los Angeles, CA
April 25	Fundamental Mechanics of Electrical Applications Engineers	Pittsburgh, PA
April 23-25	Fundamentals of Systems Grounding and Protection	Tucson, AZ
April 28-29	Protection and Grounding of Distribution Systems	Columbus, OH
May 1	1-day Microprocessor	New York, NY
May 1	CAMAC	Las Cruces, NM
May 2	ATLAS	Las Cruces, NM
May 8-9	National Electrical Safety Code and OSHA	New Orleans, LA
May 9-10	Microprocessor Seminar	Houston, TX
May 9-10	Quantitative Analysis of Alternative Energy Systems	Houston, TX
May 29-30	OSHA Electrical	Lafayette, LA
May 12-13	Basic Project Management	Toledo, OH
May 15-16	Protection and Grounding of Distribution Systems	Philadelphia, PA
May 20	CAMAC	Cleveland, OH
May 21-23	Fundamentals of Systems Grounding and Protection	Richmond, VA
May 29-31	Intel 8085	Colorado Springs, CO
June 4-6	3-day Microprocessor	Spartansburg, SC
June 26-27	Johnny Microseed	Norfolk, VA
June 26-27	Future Trends in Computer Based Instructions	Norfolk, VA
July 10-11	Introduction to Solid State Power Electronics	Ames, IA
September 20	Mini Microcomputer Applications	Binghamton, NY
September	Digital Signal Processing	Richland, WA
October 17-18	Introduction to Solid State Power Electronics	Santa Clara, CA
December 2-3	Power Systems Relaying	Ames, IA

To register at any of the above courses we ask you to call Vince Giardina at (201) 981-0060 Extensions 174/175 or return the application below.

Yes, I am interested in scheduling education programs for my \_\_\_\_\_  
(Region, Group/Society, Section, Chapter)

specifically \_\_\_\_\_  
(Title of Course)

Please send me a course flier describing scheduled course listed above:

\_\_\_\_\_  
(Name of course and Location)

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone No. \_\_\_\_\_



Contact: Roni Nichols

# Student Activities News

## BENDIX AWARD NEWS

The Vincent Bendix Corp. has once again granted funding for research to 10 IEEE Student Branches. The 10 recipients for the 1979/1980 academic year are: City College of the City University of New York, Concordia University, Duke University, Gonzaga University, University of Houston, Iowa State University, Metropolitan State College, Southern Illinois University, Tulane University, Virginia Polytechnic and State University.

## SOCIETY/GROUP INFORMATION

Student Members who are interested in Society/Group membership should contact Student Services in New York for a brochure describing the publications available to them. Student members of the Professional Communications Society are eligible for a scholarship of \$100. Computer Society Branch Chapter Members are also eligible for a scholarship of \$2000. For further information contact Coordinator, Student Services.

## STUDENT MEMBERSHIP DISCOUNTS

Students who wish to join IEEE are eligible for a half-price discount on dues between March 1 and Aug 31. Interested students should contact their IEEE Branch Counselor at their school or the Coordinator of Student Services at headquarters.

## STUDENT SERVICES DEPARTMENT MOVE

The Student Services Department, previously located in the United Engineering Center in New York, is now located at the IEEE Service Center in New Jersey. The new address is: 445 Hoes Lane, Piscataway, N.J. 08854. The phone number is 201-981-0060.

## PROMOTIONAL SUPPLIES

In March, Student Services sent all IEEE Student Branches/Branch Chapters promotional materials, as well as Annual Report forms. Any Student Branch that did not receive materials, or requires more, contact Coordinator of Student Services.

## FINANCIAL ASSISTANCE FROM STUDENT SERVICES

Student Branches/Branch Chapters can receive funds from Student Services by submitting Annual Plans and Annual Report Forms.

The Annual Report forms are due in to Student Services by May 15. Submission of an Annual Report entitles Student Branches to a rebate of \$1 per student member according to membership statistics as of 12/31. Student Branch Chapters are eligible for 70 cents per student. For further information contact IEEE Student Services.



## TAB NEWS

### TECHNICAL ACTIVITIES GUIDE

The next quarterly issue of the *Technical Activities Guide* (TAG) is scheduled for publication in mid-April. The Guide will contain an updated listing of all scheduled IEEE sponsored and co-sponsored conferences from May 1980 through December 1985. In addition, "Calls for Technical Papers" for late 1980 and early 1981 conferences and a listing of recently available conference publications will be included in the April issue of TAG.

Yearly subscription rates for four quarterly issues of the Guide are \$20 for nonmembers and \$3 for members. Single copies of each issue of the Guide are available at \$6 to nonmembers and \$1 to members. Orders should be directed to IEEE's Service Center in Piscataway, N.J.

### CHANGE IN TAB STAFF DIRECTOR ANNOUNCED

Irving Engelson has been named acting staff director to replace Neil D. Pundit, who resigned as Technical Activities Staff Director to form his own business, Technology Coordination Inc., in the Stamford, Conn., area.

Dr. Engelson joined IEEE staff in 1978 and was most recently manager of Technical Activities Board Committees and Special Projects. He was an associate professor of electrical engineering and assistant dean at the New Jersey Institute of Technology, professor and associate dean of the College of Engineering and Technology at the University of Nebraska, and was with RCA for seven years. He is a senior member of IEEE.

Dr. Engelson received a bachelor of science degree from Polytechnic Institute of Brooklyn, a master of science degree from Rutgers University, and a Ph.D. degree from Worcester Polytechnic Institute, all in electrical engineering.

## EAB NEWS

### VALIDATION PROGRAM IN REGIONS 4 AND 6

In an effort to promote IEEE's experimental program for validation of continuing education credit, a computer has sent letters to 33 000 members in sections of Regions 4 and 6.

The computer chooses its letters from a selection of 11 standard letters, turning them out on its printer at a rate of 10 000 pages an hour.

The validation program, enabled by a two-year grant from the National Science Foundation, was initiated as a test to develop IEEE recognition of acceptable participation performance in IEEE evaluated and accepted courses. The program also would enhance IEEE recognition of quality courses within the scope of the Institute's technical expertise.

Another aim of the program is to keep an up-to-date transcript of each participant's completed continuing education courses from any responsible sponsor using any educational media.

Course quality is assured through two levels of evaluation—peer evaluation by the appropriate TAB society and evaluation by course participants.

Noteworthy response has been received from the membership in reaction to a new IEEE-EAB program of granting Continuing Education Achievement Units (CEAUs) for acceptable participation in an IEEE-sponsored

educational program. Members who have satisfactorily completed a home-study course or attended a short course presented by an IEEE entity have received their Certificates of Achievement indicating the number of CEAUs awarded. A record of an individual's accomplishment is permanently retained at IEEE headquarters, and is available upon request as a transcript. As it was conceived as a forerunner to the validation program, plans are now being formulated to incorporate the CEAU records into the computerized system inaugurated in January 1980.

Responding to the demand from Sections that their locally developed educational programs qualify for the assignment of CEAUs, the EAB has adopted a policy that will encourage IEEE entities to utilize this additional incentive to course participation.

Upon submission of the course material to IEEE headquarters, approval will be sought from the appropriate technical society. After approval has been granted, there will be a first-time handling charge of \$50. For the first presentation of the course, Certificates and CEAUs will be provided at no additional charge; for each subsequent presentation a \$2 fee per attendee will apply. The CEAUs awarded will be made a part of the permanent record maintained at IEEE headquarters.

The course(s) also become the joint property of the EAB and the IEEE entity which submitted the program for approval. The EAB may include the course in its catalog and make it available to other IEEE Sections at a minimal charge: a \$50 service fee, plus the cost of materials. Copies of the EAB policy may be obtained by contacting Vincent Giardina at the Service Center.

### CONTINUING EDUCATION CHAIRMAN APPOINTED

Rex H. Beers of Region 1 has been appointed by Vice President of Educational Activities Ben Leon to succeed Dr. Joseph Biedenbach as the Continuing Education Committee Chairman.

In accepting the assignment as Chairman of the EAB Continuing Education Committee, Mr. Beers stated that "the potential for establishing topical high-caliber courses to fit the prevailing economic conditions is good." His four-point program stresses the development of a strong organizational line from the Region to the Section level to encourage interaction, a determination of the members' educational needs at the "grass roots" level, an increased interaction between Section Education Chairmen and staff, and an increase in the use of the CEAU for Section/Chapter courses. He concluded that "our call to action can only be as effective as the support we will get from our Region Education Coordinators."

### CURRICULA EVALUATION GUIDELINES

Now available from the IEEE Educational Services Dept. are guidelines for curricula evaluation in the following areas: Electrical/Electronics Engineering, Computer Engineering, Video Programs, Bio-Medical Engineering, Electrical/Electronics Technology, and Computer Technology.

Other activities in the accreditation area include preparations for a group of Ad Hoc visitor orientation workshops to be held in Washington, D.C., San Francisco, and Chicago during August-September. The workshops are planned to prepare newly selected Ad Hoc visitors to serve on a team of experts selected to evaluate engineering curricula for accreditation.



## VIDEOTAPED COURSES AVAILABLE THROUGH EAB

A catalog listing 18 university-developed videotaped short courses is now available through the IEEE EAB. The courses are obtainable to IEEE entities for programming local presentations. Each consists of approximately 10 one-half hour tapes in either the 3/4-inch SONY Unimatic, 1/2-inch VHS or 1/2-inch Betamax format; a study guide, and course notes. Helpful tips on "how to program" a video course as well as a description of each title are included in the catalog. Contact the IEEE Educational Registrar at Headquarters, 212-644-7860 for a free copy of the IEEE Videotape short course catalog.

## TECHNOLOGY CONFERENCE COURSES

"Qualitative Analysis of Alternative Energy Systems" and "Microprocessor Seminar" are the titles of two, two-day courses that are being offered at the 12th Annual Off-shore Technology Conference which is scheduled for May 9-10 in Houston. The former provides a view of the U.S. energy economy in a format that suggests an evolutionary development from a fossil fuel to a solar energy-based system. The latter is designed to introduce those involved in logic and digital designs to the intricate, flourishing field of microprocessors. Registration fees for each course are \$165 for members and \$205 for nonmembers. For further information, contact Vincent Giardina at the Service Center.

## PERSONAL FINANCIAL PLANNING PROGRAM

Providing tips on keeping ahead of inflation, reducing tax burdens, fail/safe ways to afford a child's education, starting a retirement fund without large sacrifices, etc., is the purpose of the latest program for IEEE members, the Personal Financial Planning Program. The program covers investments, employment benefits, building a financial foundation, taxes, gifts, trusts and wills, and personal, computerized financial analysis. For further information, call 212-644-7860.

## PUB NEWS

### IEEE PRESS MONOGRAPHS PLANNED

The Publications Board has approved an IEEE Press plan to publish a series of monographs—each to be a short book on one subject, usually by one author. Societies will have the opportunity to propose and to sponsor monographs as they now do Press Books of Selected Reprints. Also approved was the plan to pay monograph authors a royalty of 5 percent of net sales. Any financial surplus from the sale of monographs will be distributed equally between the Press and the sponsor.

### COMPUTER SOCIETY PUBLICATION BEGUN

PUB approved the Computer Society's plan to establish a new publication on computer graphics. The publication, which will follow magazine guidelines, will carry advertising and will be published by the staff at the California office of the Computer Society.

### IEEE PUBLISHES SEMICONDUCTOR LASERS BOOK

*Semiconductor Injection Lasers*, a book of selected reprints, has been published by the IEEE Press. This collection, edited by Jerome K. Butler of Southern Methodist University, is sponsored by the Quantum Electronics and Applications Society. It covers the various aspects of injection lasers, with emphasis on their design, characteristics,

and applications. The paperbound member edition is available at \$18.45 from the IEEE Service Center, 445 Hoeg Lane, Piscataway, N.J. 08854. A clothbound edition is available for \$36.95, discounted to \$27.70 for IEEE members.

## IEEE POWER ENGINEERING REVIEW CREATED

The IEEE Publications Board approved the Power Engineering Society's plan to establish a new publication carrying summaries of full *Transactions* papers plus other articles of technical interest to replace their present *Transactions* as the PES member publication. The *Review*, except for its title, will follow magazine guidelines and will be so subtitled. The *Transactions* will be enlarged to carry all PES conference papers and will be available by subscription.

## SPECTRUM NAMED AWARD FINALIST

For the third time in four years, *Spectrum* has reached the finals of the National Magazine Awards contest, with the November 1979 special issue, "Three Mile Island and the Future of Nuclear Power."

*Spectrum's* entry was accepted in the category of specialized journalism, competing in the finals with *Harvard Business Review*, *The Angolite*, *Coal Age*, and *American School Board Journal*.

## CONSOLIDATED INVESTMENT OPTIONS

The recent performance of the cash management investment options available to IEEE's organizational units is reported below. All units are urged to examine their available cash for optimum returns.

Investment Option 1—Short-Term Bank Deposits\* :

Dec.	10.85%	
Jan.	11.61%	
Feb.	13.13%	
March/May	13.00%	(estimated)

Investment Option 2—Long-term Bank Deposits (over 6 months)†:

Dec.	12.91%	
Jan.	12.99%	
Feb.	15.10%	
March/May	15.00%	(estimated)

Investment Option 3—Bond Plan†:

Dec.	10.50%	
Jan.	11.43%	
Feb.	12.30%	
March/May	12.00%	(estimated)

\* Percentages refer to amounts actually earned by all depositors in that month.

† Percentages are estimated average return over total period of the investment on funds deposited during the respective months.

For additional information, contact Michael J. Sosa at 201-981-0060, Ext. 123, or Thomas W. Bartlett at 212-644-7748.

## Quick-Reference Telephone Roster

(for information referenced in this issue)

**HEADQUARTERS** (212-644-...): Una B. Lennon 7882, Emily Sirjane 7757, Irving Engelson 2150, Mark Lucas 8080, Thomas W. Bartlett 7748.

**PISCATAWAY SERVICE CENTER** (201-981-0060): Vincent J. Giardina 174, Roni Nichols 165, Michael J. Sosa 123.