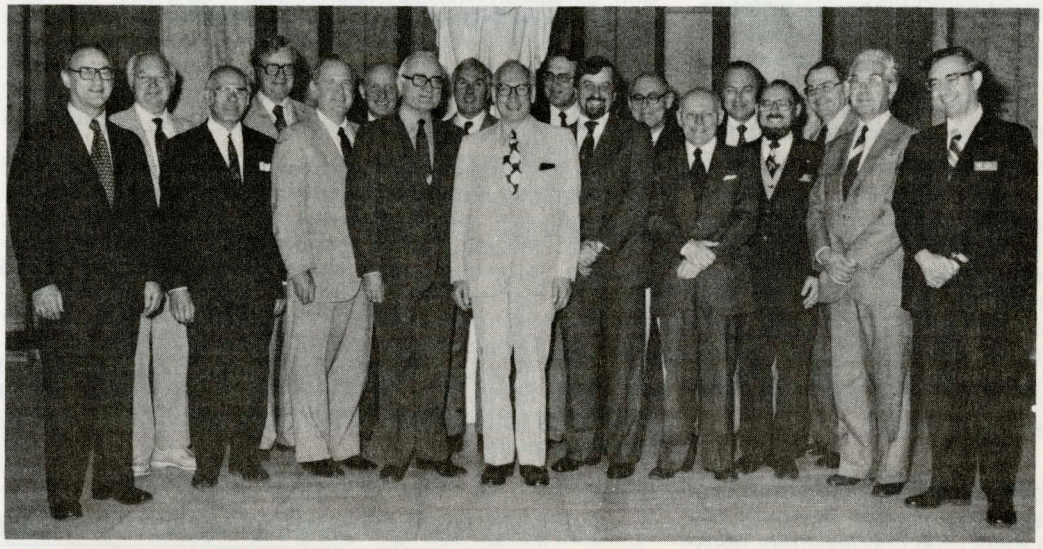
ELECTRICAL ENGINEERING®

August 1979 83

OFFICERS MOVE TO STRENGTHEN TIES WITH REGION 8

The IEEE executive committee held its June meeting in London, giving IEEE officers the chance to meet and discuss major issues with their counterparts in the United Kingdom's Institution of Electrical Engineers and Institution of Electronics and Radio Engineers; the Convention of National Societies of Electrical Engineers of Western Europe (EUREL) representatives; and leaders of the French, West German, and Danish national electrical engineering societies. Following these meetings President Suran, Region 8 Director Poortvliet, and General Manager Herz toured Region 8 encouraging the opening of new sections in Hungary and Czechoslovakia, and arranging acceptable access to monies in a blocked IEEE bank account in Yugoslavia where IEEE has a section. For a description of the Region 8 tour and its achievements see September THE INSTITUTE.



Posed under a statue of Michael Faraday at the Institution of Electrical and Electronics Engineers in London are members of the IEEE executive committee with representatives of the Convention of National Societies of Electrical Engineers of Western Europe (EUREL).

ELECTION BALLOTS COMING

The IEEE ballots are going to be mailed to the approximately 150 000 voting members of the institute at the end of August. Historically approximately a third of all the eligible voting members do vote. Seventy-five percent of these vote in the first four weeks after the ballots are mailed; that is, during the month of September. All units should make plans to do everything they can to increase membership participation in the IEEE annual election. Help is on the way to sections who have requested copies of the presidential debate tape. Tapes have been mailed out with accompanying press kits to help publicize the debate and the election.

PRIZE DEADLINE REMINDER

The deadline date for receipt of nominations for the W. R. G. Baker and Browder J. Thompson Memorial Prize Awards is Sept. 15, 1979. It is up to individual IEEE members to see that their colleagues' outstanding papers are nominated. For nomination forms contact Una B. Lennon at headquarters.

UMBRELLA ORGANIZATION

Plans for the creation of an engineering society umbrella organization are in the final stages after two years

continued, p. 2

NEWS SUMMARY

ELECTION

• Irwin Feerst withdrew as a candidate for 1980 IEEE President, for reasons of health.

Index of Inserts

Continued from p. 1

of collaborative efforts by the various engineering societies. Recent developments will be discussed at the IEEE board of directors meeting this month in Denver. The new organization, to be called the American Association of Engineering Societies, hopes to begin operations on Jan. 1, 1980. For details see September THE INSTITUTE.

TAB NEWS

POLYTECHNIC/WUNSCH PRIZE

Polytechnic Institute has announced the establishment of the Polytechnic/Wunsch Prize, a major new award designed to focus national and international attention on the field of biomedical engineering. The prize, consisting of a cash award of $15 000, will seek to inspire excellence in the field and recognize "a major contribution of biomedical engineering to human health." The deadline for nominations is Nov. 1, 1979. For further information write to G. Bugliarello, Polytechnic Institute, 333 Jay St., Brooklyn, N.Y. 11201.

MARCONI AWARD

Nominations are now being solicited for the Sixth Marconi International Fellowship Award. The fellowship will focus on advances in radio science, electronics, space technology, and other aspects of communications that contribute to higher levels of physical, economic, and social well being. Nominations for the $25 000 award should be submitted to the Marconi International Fellowship, Aspen Institute, 1919 14th St., No. 811, Boulder, Col. 80302, before Oct. 1, 1979.

1980 S/G/C BUDGETS

Preliminary 1980 S/G/C budgets will be distributed this month. Societies, groups, and councils that have not yet provided headquarters with their 1980 budget projections are requested to submit the data as soon as possible to Mel Bonaviso or Irving Engelson at headquarters.

ELECTRICAL HISTORY FELLOWSHIP

The IEEE History Committee announced the availability of a fellowship in the field of electrical-engineering history for the academic year 1980–81. This fellowship, funded by a grant from the IEEE Life Member Fund, will consist of a basic stipend of $6500 plus an amount of up to $2000 for tuition and fees.

The recipient will be selected on the basis of Graduate Record Examination scores, college transcripts, letters of recommendation, and information outlining the proposed thesis research contained in the application. The award will be conditional on acceptance of the candidate into an appropriate graduate program in history at a school of recognized standing. Students with undergraduate degrees in engineering, as well as those having degrees in the sciences or humanities, are invited to apply. Students who have completed all the requirements for the doctoral degree except thesis research are eligible for the fellowship.

The deadline for receipt of applications is Feb. 1, 1980. Application forms may be obtained from Reed Crone, secretary of the IEEE History Committee, at headquarters.

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*.

CONVENTION NEWS

WESCON '79 PROFESSIONAL PROGRAM

WESCON '79, the West Coast electronics convention and exhibition will be held in San Francisco on Sept. 18–20. More than 130 papers will be presented during the conference. Of the 32 technical sessions to be held, nine will concentrate on microprocessors and their use in advancing technology. A panel discussion will offer a global examination of energy, pollution, vehicular safety, and mass transit.

Handheld calculators, programmable caculators, and the personal computer will be examined in other technical sessions, as will designing with bubble memories, acoustic imaging, analog and digital LSI, digital image processing, large-scale CAD, radar, satellite television and systems, semicustom linear and digital IC arrays, picosecond electronics, packet switching, and computer security. A special session on Thomas Alva Edison's contributions to today's electrical/electronics community will be sponsored by IEEE Life Members in commemoration of the 100th anniversary of Edison's invention of the incandescent light.

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* :

April	9.06%	
May	9.67%	
June	8.91%	
July/Sept.	8.50%	(estimated)

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

April	10.11%	
May	10.17%	
June	9.45%	
July/Sept.	9.25%	(estimated)

Investment Option 3—Bond Plan†:

April	9.80%	
May	9.42%	
June	9.20%	
July/Sept.	9.00%	(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 or Thomas W. Bartlett.

Contact: Mark M. Lucas

MEMBERSHIP DEVELOPMENT NEWSLETTER

MEMBERSHIP DEVELOPMENT CALL FOR PAPERS ! (TESTIMONIALS)

WHY ARE YOU AN IEEE MEMBER? *WHAT DO YOU GET OUT OF IEEE?*

Membership Development is working on a new brochure to let prospective members know what IEEE offers the individual member. Not only in terms of publications, conferences, continuing education and other obvious services and activities, but also in personal and professional experience and rewards. Testimonials to the IEEE experience, in a sense.

As leading participants in IEEE, readers of "EE" are being asked to consider the challenging questions above and to contribute, for possible publication, in 50 words more or less, either a specific instance or general reasons why you have gained through IEEE membership. Contributions will be acknowledged.

Send your contribution to IEEE Membership Development, New York HQ.

* *

JUNE MEMBERSHIP PROGRESS REPORT

As of June 30, total Institute membership continues strong growth in 1979, at 185,621 active members. This figure is 8,844 ahead of the same time last year, an increase of 5 percent. (See attached)

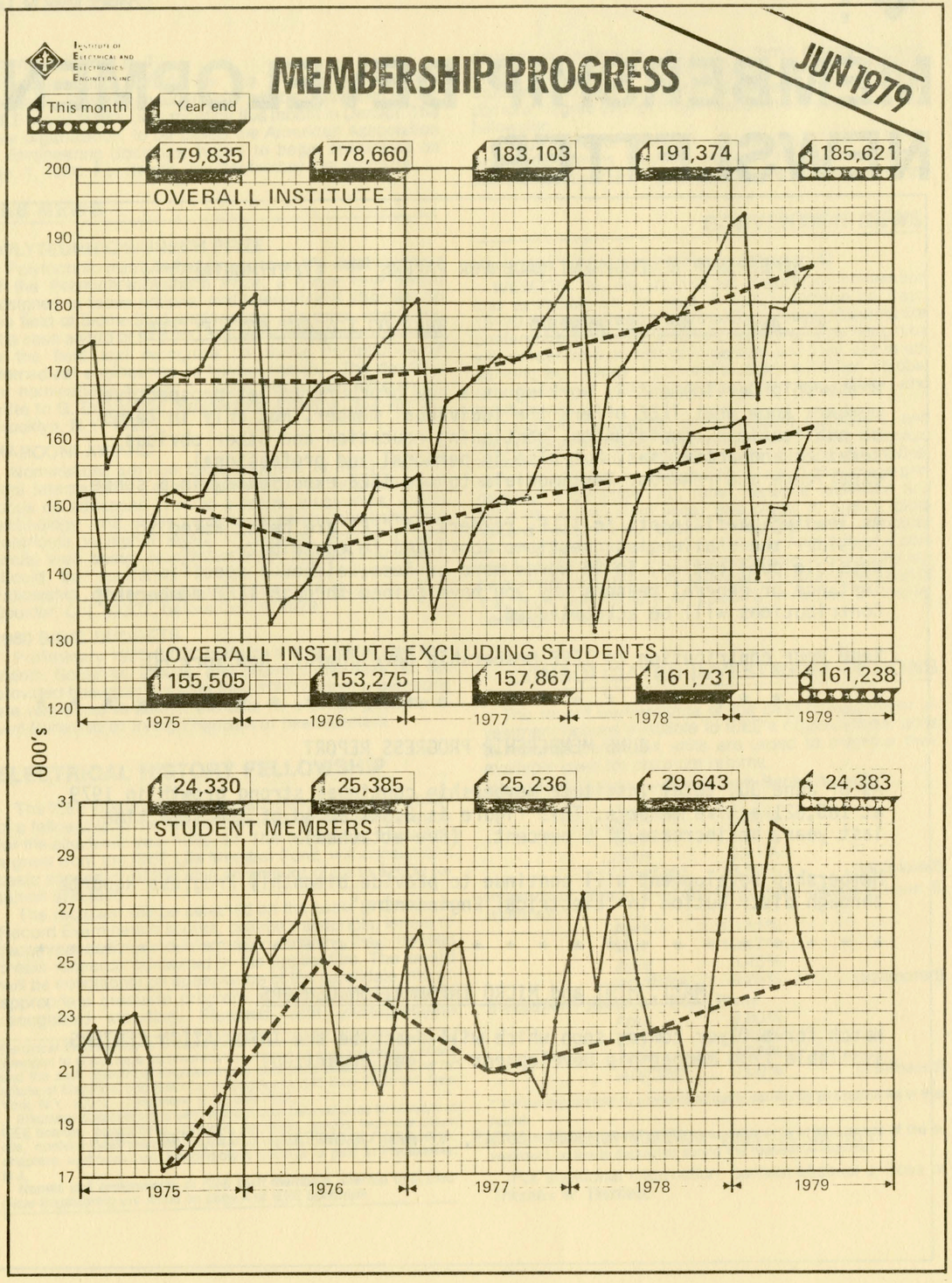
Membership Development will continue to provide bimonthly Progress Reports through distribution in "Electrical Engineering".

* *

MAXI, MINI and MICRO INFORMATION CENTERS

Watch for a flyer coming soon which will describe the INFORMATION CENTERS available from Membership Development --- get organized!

(For MD ACTION, CONTACT MARK M. LUCAS, NY HEADQUARTERS, (212) 644-8080)



Contact: Jill Gerstenzang

United States Activities Board

USAB SPEAKERS BUREAU

Speakers are available through USAB for your Section, Region, Council and other meetings on a variety of professional-interest topics. Members of USAB can provide an overview of professional programs and U.S. activities. Professional Activities Committee (PAC) Coordinators can also address the range of programs, as well as "how to" advice on starting a PAC and new ideas for PAC. USAB Task Force Leaders are well qualified to talk about their particular projects.

OVERVIEW OF PROFESSIONAL PROGRAMS

Bruno O. Weinschel, USAB Chairman
Gaithersburg, MD
(O) 301/948-3434
(H) 301/948-3445

Robert F. Cotellessa, USAB Vice Chairman, Professional Affairs
Potsdam, NY
(O) 315/268-6511 or 6512
(H) 315/265-4433

Richard J. Backe, USAB Vice Chairman Public Affairs
Greenbelt, MD
(O) 301/344-6108 or 6983
(H) 301/439-4520

James E. Shepherd, Region 1 Director
Concord, MA
(O) 617/369-3140
(H) 617/369-3140

William C. Farrell Region 2 Director
Baltimore, MD
(O) 301/393-7427
(H) 301/647-4020

Roy H. Harris, Region 3 Director
Greensboro, NC
(O) 919/697-4024
(H) 919/584-7910

Peter A. E. Rusche, Region 4 Director
Jackson, MI
(O) 517/788-1434
(H) 517/782-3104

Darrell L. Vines, Region 5 Director
Lubbock, TX
(O) 806/742-3536 or 3533
(H) 806/799-6121

Charles A. Eldon, Region 6 Director
Los Altos, CA
(O) 408/246-4300 ext. 2161
(H) 415/856-2990

Robert E. Larson, Division I Director
Palo Alto, CA
(O) 415/494-1165 ext. 277
(H) 415/948-5188

F. A. Furfari, Division II Director
Pittsburgh, PA
(O) 412/255-3117 or 5668
(H) 412/242-4587

Richard E. Merwin Division V Director
Washington, DC
(O) 202/676-4951 or 703/524-9468
(H) 202/338-8671

David B. Dobson, Member-at-Large
Washington, DC
(O) 202/722-2246 or 2248
(H) 301/656-5646

Richard J. Gowen, Member-at-Large
Rapid City, SD
(O) 605/395-2256
(H) 605/341-3977

Edward A. Wolff, Member-at-Large
Greenbelt, MD
(O) 301/344-7496
(H) 301/439-1152

Joel B. Snyder, Member-at-Large
Plainview, NY
(O) 516/433-4555
(H) 516/433-8204

Alvin A. Read, Member-at-Large
Ames, Iowa
(O) 515/294-3046 or 2663 (messgs.)
(H) 515/292-8114

Arthur L. Rossoff, Member-at-Large
Huntington Station, NY
(O) 516/694-5500
(H) 516/427-5804

Edward J. Doyle, USAB Treasurer
Newark, NJ
(O) 201/649-2095
(H) 201/379-3873

ALL ABOUT PACS

H. Mark Grove, USAB PAC Task Force Leader
Kettering, OH
(O) 202/695-0121
(H) 513/434-9626

Joel B. Snyder, Region 1 PAC Coordinator
Plainview, NY
(O) 516/433-4555
(H) 516/433-8204

Joseph A. Edminister, Region 2 PAC Coordinator
Cuyahoga Falls, OH
(O) 216/923-6321
(H) 216/375-7816

John I. Barron, Region 3 PAC Coordinator
Charlotte, NC
(O) 704/377-7268
(H) 803/684-4614

Ronald J. Fredericks, Region 4 PAC Coordinator
Grand Rapids, MI
(O) 616/241-7722
(H) 616/534-9076

Lewis N. Thomas, Region 5 PAC Coordinator
Lubbock, TX
(O) 806/763-2881 ext. 270
(H) 806/797-2241

Jack T. Nawrocki, Region 6 PAC Coordinator
Palo Alto, CA
(O) 415/494-7400 ext. 4101
(H) 415/968-5216

Mohammed S. Ghausi, Division I PAC Coordinator
Rochester, MI
(O) 313/377-2200
(H) 313/338-8289

Francis M. Wells, Division II PAC Coordinator
Urbana, IL
(O) 217/333-0434
(H) 217/344-0365

USAB SPEAKERS BUREAU cont.

Raymond A. Nash, Jr., Division III
PAC Coordinator
Reading, MA
(O) 617/944-6850
(H) 617/475-9161

Lawrence R. Whicker, Division IV
PAC Coordinator
Washington, DC
(O) 202/767-3312
(H) 301/647-6034

Lynn Hopewell, Division V PAC
Coordinator
Silver Spring, MD
(O) 301/589-1545
(H) 704/938-0595

Walter Welkowitz, Division VI
PAC Coordinator
Piscataway, NJ
(O) 201/932-2164 or 2577
(H) 201/548-1210

Joseph P. Fitzgerald, Divison VII
PAC Coordinator
Cleveland, OH
(O) 216/623-1350 ext. 2155
(H) 216/382-0337

USAB TASK FORCES

Robert A. Barden, Task Force Leader,
Pensions
Holbrook, NY
(O) 516/585-1512
(H) 516/585-9235

Harb S. Hayre, Task Force
Leader, Service Contracts
Houston, TX
(O) 713/749-4503

Howard L. Rose, Task Force Leader,
Patents
Bethesda, MD
(O) 301/530-8300

Samuel J. Raff, Task Force Leader,
U.S. Discovery and Innovation in
Electrotechnology
Chevy Chase, MD
(O) 202/585-1700
(H) 202/587-9418

Hilton U. Brown, Task Force Leader,
U.S. Energy Program
White Plains, NY
(O) 914/696-1776

Sajjad H. Durrani, Task Force Leader,
Congressional Fellows
Olney, MD
(O) 301/344-8104 or 7265

Richard B. Marsten, Task Force
Leader, U.S. Telecommunications Policy
New York, NY
(O) 212/690-5439
(H) 201/767-0712

Richard J. Gowen, Task Force Leader,
Committee on Health Care Policy
Rapid City, SD
(O) 605/395-2256
(H) 605/341/3977

USAB TASK FORCES cont.

Alvin A. Read, Task Force Leader
Increasing Responsiblity of Engineers
in Society
Ames, IA
(O) 515/294-3046
(H) 515/292-8114

Joel B. Snyder, Task Force Leader,
Licensure and Registration
Plainview, NY
(O) 516/433-4555
(H) 516/433-8204

James F. Fairman, Jr., Task Force
Leader, Ethical Conduct Activities
Washington, DC
(O) 202/342-0120
(H) 301/229-8060

Marlin P. Ristenbatt, Task
Force Leader, Employee Cooperation
in Career Maintenance & Development
Ann Arbor, MI
(O) 313/764-5202

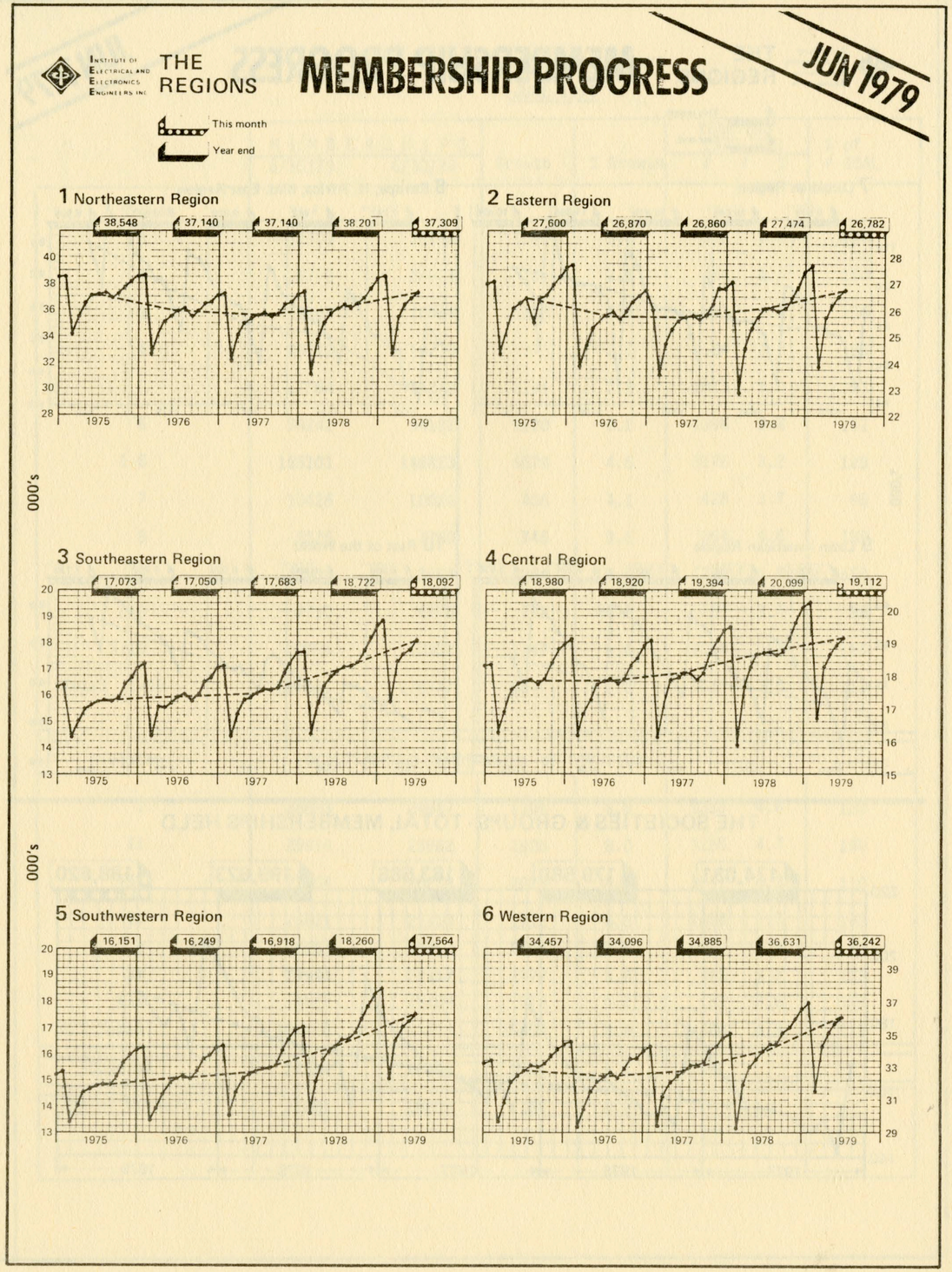
Alvin Reiner, Task Force Leader,
Age Discrimination
Silver Spring, MD
(O) 202/632-6350
(H) 301/649-2374

Carolyn J. Morris, Task Force Leader,
Committee on Professional Opportunities
for Women (COMPOW)
Cupertino, CA
(O) 408/725-8111 ext. 3764

Robert A. Rivers, Task Force Leader,
Manpower Activities
Union, NH
(O) 603/473-2323
(H) 617/846-0270

Irving J. Gabelman, Task Force Leader,
State Intersociety Legislative
Activities (SILA)
Rome, NY
(H) 315/336-8073
(O) 315/336-8073

NOTE: The IEEE unit sponsoring the meeting normally covers expenses; however, other funds may be available. For help in arranging for a speaker, please call the Washington Office, 202/785-0017.



THE REGIONS

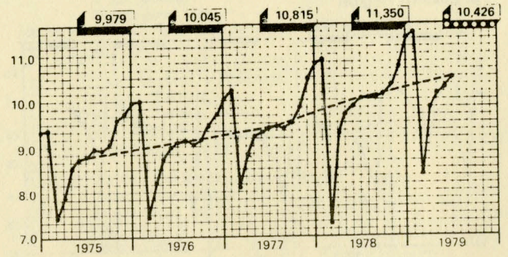
MEMBERSHIP PROGRESS

JUN 1979

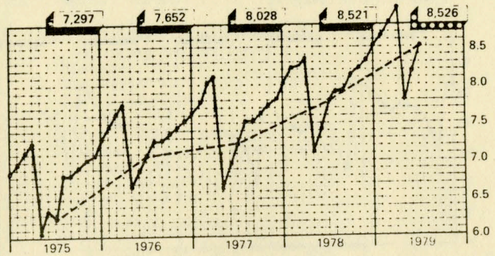
This month

Year end

7 Canadian Region



8 Europe, N. Africa, Mid. East Region



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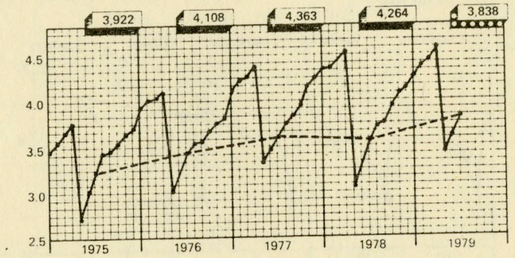
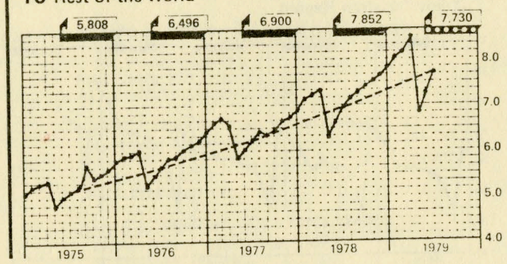
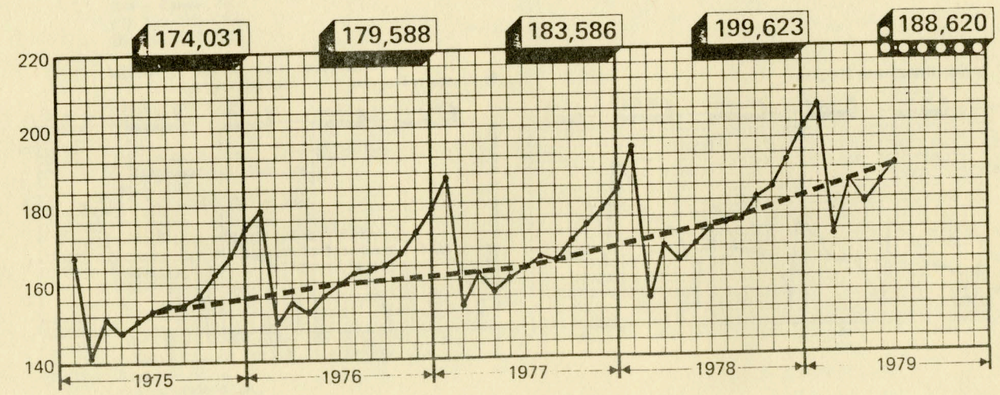
9 Latin American Region



10 Rest of the World



THE SOCIETIES & GROUPS - TOTAL MEMBERSHIPS HELD



IEEE MEMBERSHIP SUMMARY

JUNE 1979

	MEMBERSHIPS 6/30/79	MEMBERSHIPS 6/30/78	Growth	% Growth	YEAR END 1979 GOAL #	YEAR END 1979 GOAL %	% of # GOAL
Region							
1	37309	36214	1095	3.0	898	2.2	122
2	26782	26021	761	2.9	464	1.6	164
3	18092	16954	1138	6.7	831	4.4	136
4	19112	18739	373	2.0	564	2.8	66
5	17564	16373	1191	7.3	1073	5.8	111
6	36242	34122	2120	6.2	1396	3.8	152
1-6	155101	148423	6678	4.5	5176	3.2	129
7	10426	10020	406	4.1	428	3.7	95
8	8526	7780	746	9.6	394	4.6	189
9	3838	3554	284	8.0	(79)	(1.8)	559
10	7730	6998	732	10.5	761	9.6	96
8-10	20094	18332	1762	9.6	1076	5.2	164
Total 1-10	185621	176777	8844	5.0	6668	3.5	133
Division	SOCIETY/GROUP MEMBERSHIPS BY DIVISION						
I	26653	24947	1706	6.8	1333	4.6	128
II	25910	23982	1928	8.0	1285	4.7	150
III	27304	25278	2026	8.0	1841	6.3	110
IV	26821	25109	1712	6.8	1050	3.7	163
V	38261	32480	5781	17.8	6299	16.7	91
VI	23994	22717	1277	5.6	968	3.7	132
VII	19677	18704	973	5.2	782	3.8	124
G/S Total	188620	173218	15402	8.9	13488	6.8	115
Students	24383	22282	2101	9.4	TBA		-
Senior Members	21081	20895	186	0.9	TBA		-

SOCIETY/GROUP/DIVISION MEMBERSHIPS

	MEMBERSHIPS HELD 6/30/79	6/30/78	GROWTH	% GROWTH	1979 Year End Goal #	/ %	% of # Goal
Division							
I ASSP 01	6535	5885	650	11.0	655	9.5	99
CAS 04	9021	8554	467	5.5	183	1.8	255
IT 12	4353	4210	143	3.4	220	4.6	65
CS 23	6744	6298	446	7.1	275	3.7	162
I Subtotal	26653	24947	1706	6.8	1333	4.6	128
II NPS 05	2717	2569	148	5.8	194	6.5	76
VT 06	2415	2317	98	4.2	257	10.0	38
IM 09	4702	4411	291	6.6	100	3.9	291
IECI 13	4977	4484	493	10.9	129	2.4	382
EI 32	1393	1293	100	7.7	26	1.8	384
IA 34	9706	8908	798	8.9	579	5.8	137
II Subtotal	25910	23982	1928	8.0	1285	4.7	150
III BCCE 02	6143	5775	368	6.4	457	6.8	80
AES 10	6391	6165	226	3.7	255	3.7	88
COM 19	11760	10592	1168	11.0	923	7.5	126
EMC 27	1702	1547	155	10.0	118	6.8	131
GEO 29	1308	1199	109	9.1	88	6.3	123
III Subtotal	27304	25278	2026	8.0	1841	6.3	110
IV AP 03	4207	3984	223	5.6	58	1.3	384
ED 15	7644	7109	535	7.5	344	4.3	155
MTT 17	5349	5105	244	4.8	106	1.9	230
SU 20	1948	1820	128	7.0	112	5.4	114
CHMT 21	2589	2511	78	3.1	145	5.1	53
MAG 33	2199	1961	238	12.1	158	7.0	150
QE 36	2885	2619	266	10.1	127	4.1	209
IV Subtotal	26821	25109	1712	6.8	1050	3.7	163
V COMP 16	38261	32480	5781	17.8	6299	16.7	91
VI R 07	2616	2484	132	5.3	189	6.7	70
EM 14	6967	6357	610	9.6	481	6.5	127
EMB 18	6538	6484	54	0.8	(73)	(1.0)	273
E 25	2047	1960	87	4.4	71	3.2	122
PC 26	1683	1288	395	30.7	395	22.6	100
SMC 28	4143	4144	(1)	0	(39)	(0.8)	199
VI Subtotal	23994	22717	1277	5.6	968	3.7	132
VII PE 31	19677	18704	973	5.2	782	3.8	124
Total G/S	188620	173218	15402	8.9	13488	6.8	115

IEEE

Contact: Richard Aseltine

Student Activities News

Ethics in Engineering: The IEEE Code of Ethics is a pragmatic set of ethical principles for engineers' conduct. Every engineer should be aware of his/her obligation to conduct him/herself and practice his/her profession in accordance with these ethical standards, and that these standards should be carefully considered as they approach their future in engineering.

IEEE CODE OF ETHICS FOR ENGINEERS

Preamble: Engineers affect the quality of life for all people in our complex technological society. In the pursuit of their profession, therefore, it is vital that engineers conduct their work in an ethical manner so that they merit the confidence of colleagues, employers, clients and the public. This IEEE Code of Ethics is a standard of professional conduct for engineers.

Article I: Engineers shall maintain high standards of diligence, creativity and productivity, and shall: 1. Accept responsibility for their actions; 2. Be honest and realistic in stating claims or estimates from available data; 3. Undertake engineering tasks and accept responsibility only if qualified by training or experience, or after full disclosure to their employers or clients of pertinent qualifications; 4. Maintain their professianl skills at the level of the state of the art, and recognize the importance of current events in their work; 5. Advance the integrity and prestige of the engineering profession by practicing in a dignified manner and for adequate compensation.

Article II: Engineers shall, in their work: 1. Treat fairly all colleagues and co-workers, regardless of race, religion, sex, age or national origin; 2. Report, publish and disseminate freely information to others, subject to legal and proprietary restraints; 3. Encourage colleagues and co-workers to act in accord with this Code and support them when they do so; 4. Seek, accept and offer honest criticism of work, and properly credit the contributions of others; 5. Support and participate in the activities of their professional societies; 6. Assist colleagues and co-workers in their professional development.

Article III: Engineers shall, in their relations with employers and clients: 1. Act as faithful agents or trustees for their employers or clients in professional and business matters, provided such actions conform with other parts of this Code; 2. Keep information on the business affairs or technical processes of an employer or client in confidence while employed and later, until such information is properly released, provided such action conforms with other parts of this Code; 3. Inform their employers, clients, professional societies or public agencies or private agencies of which they are members or to which they may make presentations, of any circumstance that could lead to a conflict of interest; 4. Neither give nor accept, directly or indirectly, any gift, payment or service of more than nominal value to or from those having business relationships with their employers or clients; 5. Assist and advise their employers or clients in anticipating the possible consequences, direct and indirect, immediate or remote, of the projects, work or plans of which they have knowledge.

Article IV: Engineers shall, in fulfilling their responsibilities to the community: 1. Protect the safety, health, and welfare of the public and speak out against abuses in these areas affecting the public interest; 2. Contribute professional advice as appropriate, to civic, charitable or other non-profit organizations; 3. Seek to extend public knowledge and appreciation of the engineering profession and its achievements.

Reprinted from *IEEE Spectrum*, July 1979

IEEE

Contact: Vincent Giardina

Continuing Education Services

3
TOPICAL COURSES NOW AVAILABLE

ENERGY CONSERVATION IN INDUSTRY

QUANTITATIVE ANALYSIS OF ALTERNATIVE ENERGY SYSTEMS

SOLAR ELECTRIC SYSTEMS

1016 - ENERGY CONSERVATION IN INDUSTRY - 2 DAYS

Increased costs of energy plus unpredictable fuel supplies will compel many companies to increase energy consciousness to reduce overall costs. This course is conducted on a practical intermediate level of technology and covers:

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2 - Electrical energy consumption, etc.
3 - Heating/Ventilating systems, etc.
4 - Steam Traps; operation, maintenance etc.
5 - Boilers; Stock temperature, leakage, etc.
6 - Compressed air, Costs, unnecessary loss, etc,

Instructor: Dr. H. M. Eckerlin, North Carolina State University

1032 - QUANTITATIVE ANALYSIS OF ALTERNATIVE ENERGY SYSTEMS - 2 DAYS

If you've become serious about gas and oil reserves, it's time you became serious about alternate energy systems. This course will provide a view of U.S. energy economy and suggests an evolutionary development from a fossil fuel to a solar energy-based system. Various regenerable energy sources and the state-of-the-art of some of the necessary energy conversion/storage devices are summarized. Course includes use of geothermal energy and of aelonian, biomass, hydrological, oceanic, photochemical and thermal manifestations of solar energy.

Instructor: Dr. A. L. Johnson, The Aerospace Corporation

1063 - SOLAR ELECTRIC SYSTEMS - 2 DAYS

Gain important new insights by understanding the principle and operation of Solar Electric Power Systems. This course will provide you with an opportunity to review up-to-date information on the design and availability of commercially available systems and large scale Power Systems such as U.S. Dept. of Energy national projects. More than that, the program includes a review of small, independent solar electric power systems for individual home installation.

Instructor: Dr. P. P. Wang, Duke University

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- -

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CE 679

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REGIONAL ACTIVITIES BOARD

New Council Structure Approved for Geographic Units
By Board of Directors

Summary

How might IEEE be geographically organized in the future? The 1979 Bylaws, which underwent considerable revision last year in the area of organization of members, gives some idea about how IEEE might be structured. Councils, or consortiums of Sections, may play a greater role in serving members and representing their interests. Although metropolitan area Councils have been in existence since 1965 there is a recent trend of Sections banding together along their common political boundaries, particulary in Regions 1-6 at the state level. The 1979 Bylaws define three types of Councils: metropolitan, state/province and country. Each exists to represent and fulfill the needs of IEEE members within their territory and to provide an effective means for jointly sponsored Section activities, such as conferences, newsletters, meeting and educational programs, legistative liasion and other professional activities. The effectiveness of any one Section is strengthened by joint interaction with other Sections under a Council umbrella.

The following "white paper" discusses the background and philosophy of the Bylaw changes. It provides guidance to Section officers so that they can intelligently decide on the value and validity of a Council structure for their own and surrounding Sections.

Background

In January 1978, Paul F. Carroll, Vice President, Regional Activities and Chairman of the Regional Activities Board appointed a committee to study the geographic structure of IEEE. The primary task was to develop recommendations concerning the geographic relationship and role of Councils in the geographic structure of IEEE.

Several recent developments gave impetus to the need for this action. In 1977 the Sections in Florida formed a Florida Council. Other Sections in several states were actively considering state-wide Councils. There were thirteen Councils already in existence and they were formed at different geographic levels. Los Angeles had the first metropolitan area Council formed in 1963. The first country wide Council, the All-India Council, was formed in 1976. The Sections in North Carolina were first to form a state-wide organization, an affiliation of Sections in 1966, which has since become a Council.

There was confusion concerning the use of the term "Council." It was being used to describe both a geographical Council at state, country, and metropolitan levels, and technical Councils. The committee was charged with making order out of the bylaws and defining a logical geographic structure on which IEEE could grow for the future.

The committee consisted of the following individuals:

Roy H. Harris	-	Region 3 Director, Committee Chairman
James E. Shepherd	-	Region 1 Director
Don S. Brereton	-	Division 4 Director
Edward F. Glass	-	Region 7 Director
E. Folke Bolinder	-	Region 8 Director
Carlos Rivera-Abrams	-	Region 9 Director
Robert K. Asdal	-	Staff Director, Field Services

The committee developed bylaw recommendations that were reviewed and approved by the Regional Activities, Technical Activities and United States Activities Boards. The Board of Directors approved the changes in December 1978 and they were issued in the January 1979 Bylaws as the Bylaw 400 and Bylaw 500 series dealing, respectively, with the geographic and technical organization of members.

Considerations:

The committee reviewed the overall structure of IEEE geographically. It recognized the extensive amount of volunteer effort that is primarily responsible for the advancement of the IEEE and its preeminent position worldwide and sought means to make those valuable contributions more useful. It reviewed the structure and interrelationships of the 10 Regions, 13 Councils, 30 areas, 240 Sections, 46 Subsections, 540 Chapters, 430 Student Branches and 20 Student Branch Chapters. It considered the administrative and management demands of the Regional Director. It considered the growing member services and activities where jointly sponsored Section activities were necessary, in particular, professional activities in Regions 1-6 and how these are related to geo-political boundaries.

The committee used the following considerations which it applied in creating the new Bylaw series:

1. Membership needs and services are materially affected by the laws and environment found within political boundaries; such as, States in Regions 1-6; Provinces in Canada; and Countries in Regions 8, 9, and 10.

2. Many managers believe that an effective structure has no more than 6 to 10 individuals reporting to any one management level.

3. It was felt desirable to involve the members in determining the individuals who serve in leadership positions particularly as Area Chairmen are not now elected but appointed.

4. It was felt that placing decision making nearer to the individual member generates more participation.

Objectives of Geographic Units

The Committee developed the following objectives of the geographic units:

Local Section/Metropolitan Council

1. The local geographical units should be organized to provide the opportunity for electrical, electronic engineers and those in allied branches of engineering and related arts and sciences to express their needs for and avail themselves of the IEEE technical, educational and professional services and programs they desire. The unit should provide such quality programs and services for their members.

2. The local geographic units should be small enough to allow personal participation, requiring a maximum of two hour round trip travel time for members to attend meetings.

3. There should be strong administrative links for technical Chapters to their local Section and technical Society sponsors.

4. The local geographical unit should provide support and strong links to Student Branches.

5. There should be a provision for membership inputs through the structure to the policy making process of the transnational IEEE Organization.

State/Province/Country Council

A State/Province/Country structure should provide the means by which members of local units can coordinate their activities within the political boundaries encompassed. These activities can include:

1. Technical Meetings or Conferences.
2. Joint Section Newsletters.
3. Professional, and Political (where appropriate) and enviromental matters affecting the lives of members.
4. Membership Inputs to the policy making process of the transnational IEEE Organization.

Regions

The regional structure should provide for proper management and administration of the IEEE Organization within the territory it embraces. This structure provides:

1. A means for electing a representative to the Board of Directors.
2. Communications path to/for members.
3. A means for conducting Regional Meetings, Conferences and workshops.
4. Provide membership inputs to the policy making process of the transnational IEEE Organization.

The New Bylaws - Councils Explained

At its December 1978 meeting, the IEEE Board of Directors approved bylaw changes that permit the organization of a Council of Sections along geo-political lines.

In order to define the relationships of the new Council structure to the other geographical and technical entities of IEEE, the Bylaws were revised. Bylaw series 400 now describes the geographic organization of members and Bylaw series 500 describes the technical organization of members. Geographic and technical entities within each series have been defined to better indicate the relationships and interactions involved.

Bylaw 401 defines the Regional structure. Bylaw 401.5 provides the definition and composition of the Regional Committee. Since the Council Chairmen are specified as being elected either by the membership directly or by designated representatives of the constituent Sections, the Bylaws provide the option that they be included on the Regional Committee.

Bylaw 403 defines the Council structure for geographical units, i.e., Metro, State, Province, or Country. The bylaw indicates that each Council of Sections is to have a set of bylaws approved by the Regional Activities Board. A sample set of bylaws may be obtained from the Field Services Department at IEEE Headquarters.

In the United States the Regions are currently subdivided informally into Areas to assist the Regional Director in administering the IEEE programs. There is an average of 24 Sections per Region and the area Chairman serves in an administrative capacity to assist the Regional Director in communicating with the Sections for which he is responsible. Area Chairmen are appointed by the Regional Director and normally serve during his two-year term. Because of the appointment process and current role of Area Chairmen Sections have minimum control and involvement in their Area organization and structure. The council is a viable alternative to the Area organization.

Provision is included in the new bylaws for the election of the Council Chairman by the constituent Sections or by the members directly. In addition, a Council structure is defined that includes an executive committee to address the joint needs of the members of the Sections within the particular Council. This will provide a structure to meet the common interest of members of the constituent Sections. This would permit such joint efforts as: technical meetings and conferences, legislative assistance programs, and newsletters. In addition, in Regions 1-6, it will provide a structure through which the IEEE members can influence legislation on matters which impact their professional careers.

In addition to the Metropolitan area structure, Councils can be organized on a State (in Regions 1-6), Province (in Region 7) or Country (in Regions 8-10) basis.

Country Councils (Regions 8-10)

The Sections in one or more countries may form a Country Council. An example is the All-India Council which coordinates the activities of five Sections in India.

The Country Council has the advantage, where cities with IEEE members are widely separated, of allowing a uniform and coordinated approach to IEEE activities on a National basis. Administration of membership activities and services can be effectively coordinated at the Council level. In particular, matters of continuity of office, finances and relationships with national societies are conveniently handled through a Council.

Representation of Sections on the Regional Committee is an issue that is left to the discretion of each Regional Committee. Several Sections in a Country may choose to be represented by the Council.

State/Province Councils (Regions 1-7)

Current Section and Regional boundaries may not coincide with those of the constituent States. As indicated in Bylaw 403.1, the Sections within a State may form a Council with the approval of the Regional Activities Board. State Councils can coordinate the activities of several Sections and be particularly effective in the area of professional activities at the State level.

Examples of State Councils are Florida and North Carolina. In Region 7, Canada, three Province Councils have been formed. Where two or more Regions have Sections within the State, the petition to the Regional Activities Board must include the recommendations from each Regional Director involved. In certain instances, the Section boundary may include a small territory in an adjacent State in order to include members with common community of interests. If the number of members in the adjacent State is large enough, it may be appropriate to form a new Section. Otherwise, the members may be served best by remaining with the territory of another state even though the Section is part of a State Council.

Metro Councils (Regions 1-10)

As indicated in Bylaw 403.1, a Metro Council may be formed to consolidate the activities of the Sections within a Metropolitan Area. Examples of current Metro Councils are Los Angeles, San Francisco, and the Central New England Council. Activities they sponsor include joint chapters, joint technical meetings, common newsletters administrative support, and conferences and for the members of the constituent sections. A Metro Council may include Sections of one or more Regions and/or one or more States/Provinces.

Conclusion

The preceding "white paper" has discussed the 1979 Bylaw as they relate to the geographic organization of members and several new Bylaws that relate to Councils in particular. The number of Councils in IEEE is growing and their role is expanding. As the programs of IEEE continue to expand and the needs of IEEE members continue to grow the Council, whether in a metropolitan area, at a state, or at a Country level may well be a major and vital component of IEEE's geographic structure in the future.

This "white paper" is designed to help interpret the changes to the Bylaw 400 series and allow local officers to seek more information about the Council concept if they wish.

For more information write to: Robert K. Asdal, IEEE Staff Director, Field Services, 345 E. 47th Street, New York, NY 10017.

CHAPTERS—THE TECHNICAL STRENGTH OF SECTIONS

The local Chapters of societies, backed by the coordination and support of the sections, are a vital force in serving the local needs of IEEE members. Currently IEEE has 540 chapters of sections. These provide about half of the 4000 local meetings sponsored by sections and chapters annually.

Successful functioning of the chapters can sometimes depend on the organizing skills of the section. The section in most cases coordinates the meeting schedule for the area, controls the chapter finances, and takes care of the red tape involved in chapter meetings and activities. Section officers should remember that an invaluable function of the section can be the preparation of the chapter chairmen and other chapter officers for their tasks before their official terms begin.

Both the Philadelphia and the Boston sections run yearly chapter chairmen workshops in June. They discuss the role of chapters, which includes holding regular chapter meetings, lecture series, short courses, special symposia and seminars, cosponsoring and participating in conferences, and generally planning activities that support the interests and needs of the members within their technical specialties. Both the Philadelphia and Boston sections use the Chapter chairmen workshops to map out the master meeting schedule for the coming year. They ask chapter chairmen to attend with meeting dates, plans, and topics in hand, and together they coordinate the master schedule to avoid meeting conflicts, and arrange joint meetings where desirable.

In advance of its meeting the Boston section provides chapter chairmen with the meeting's agenda, a proposed schedule of chapter meetings, guidelines for lectures/meetings, duties of a lecture series chairman, and the Boston section's chapter manual. The chapter chairmen workshop is held as the first part of a regular section meeting.

The Philadelphia section invites all the chapter officers, incoming and outgoing, to its special workshop meeting, and all section officers try to attend. Seeking to cut down the amount of material that fills the mailboxes of chapter officers, the Philadelphia Section hands out its backup material to the chapter officers while it answers questions and explains procedures. The materials provided at the special meeting include the local chapter handbooks, revised by the previous year's chairmen, meeting reports for the preceeding year, the master calendar, chapter stationery, headquarters manuals and materials, charts of each chapter's previous year's activities and attendance figures, and allocated budgets. While reviewing this material, the Philadelphia section explains the chapter officers' responsibilities, giving them as much help as possible and encouraging officer teamwork to ease the burden that falls on volunteer chapter chairmen.

In reviewing ways to improve organizational support to their chapters, section officers might try some version of the chapter chairmen workshops described here. Meanwhile they should check to see that members know who their chapter officers are and know how to contact them. They might also examine the sometimes neglected areas of coordination of planned programs between section and chapters, promotion of chapter meetings, financial planning to meet the chapter needs, and identification of member needs within their territories.

Two helpful aides for identifying member needs are available upon request from the Field Services Dept. at headquarters. These are rosters and labels of the group and society membership by section, and technical interest profiles of the membership by section. Also the Report of the Secretary provides useful statistics and documents the growth patterns of group and society membership. Finally, the Field Services Dept. provides a number of booklets useful in chapter organizing, such as meeting guides for sections and chapters, a chapter operations guide, the field services guide, a membership development guide, and a guide for running membership desks at conferences.

EAB NEWS

ENGINEERING TECHNOLOGY PROGRAMS

In response to many expressed concerns, the IEEE Educational Activities Board (EAB) has formed an ad hoc committee to recommend a position for the EAB on the questions concerning BSET (baccalaureate programs in engineering technology) programs, and to suggest actions that could be taken by IEEE regarding such programs. A draft report by the ad hoc committee was submitted to EAB at its June 4 meeting, and a final report is to be made at its Oct. 14 meeting. Copies of the final report, when approved, may be obtained by writing to John F. Wilhelm at headquarters.

HOME-STUDY PROGRAMS

The EAB continuing-education programs in home study are experiencing increased member participation. For many reasons the home-study concept appears to be an idea whose time has come. A wide range of courses offers the member choices in the technical and engineering management areas. Current best sellers are Speed Learning, Technically-Write, IEEE/MGI Understanding Microprocessors Through Software Design, and IEEE/HEATH Microprocessors (including a microprocessor kit). Further details and registration forms may be obtained from Emma White at headquarters.

MINORITIES IN ENGINEERING EDUCATION

The EAB Minorities Committee, under John B. Slaughter, has developed a plan for regional and section minority activities committees (MAC). The proposal has received support and endorsement from the Regional Activities Board. The MAC plan is based on local efforts in the areas of identification of engineering candidates and retention of candidates in education and the profession.

TECHNOLOGY APPRECIATION

A new committee of EAB, under the chairmanship of John G. Truxal, is concerned with fostering a better understanding of technology by the public. The committee was established at the suggestion of Jerome Suran and is organized as a standing committee of the EAB. At its first meeting on June 7, the committee examined the area of concern. Prior to its next meeting in September, the committee would welcome suggestions for additional committee members and ideas upon which to focus action. Any such contributions should be addressed to John F. Wilhelm at headquarters.

USAB NEWS

LERA BILL INTRODUCED IN SENATE

The efforts of USAB's Pension Task Force were again rewarded with success when Sen. Alan Cranston (D-Calif.) introduced a LERA (Limited Employee Retirement Account) pension reform bill (S.1428) in the Senate on June 27. S. 1428 is identical to H.R. 628, introduced earlier this year in the House of Representatives by Rep. James C. Corman (D-Calif.); both are entitled "The IRA-Employer Plan Coordination Act of 1979."

The Corman-Cranston proposal provides for establishment of LERA accounts of up to $1500 annually by employees, even though they may be covered by employer-sponsored plans. Such legislation would benefit engineers whose career mobility often excludes them from vesting in employer-sponsored retirement programs. In introducing S. 1428, Sen. Cranston voiced concern for engineers and scientific employees who are particularly hard hit by present tax laws.

The new bill is expected to be referred to the Senate Finance Committee. USAB is calling on all IEEE members to ask their Senators, especially those who are members of the Finance Committee, to support this legislation. Members may call the USAB Washington office if they need assistance.

NEW CONGRESSIONAL FELLOWS

In the seventh year of the Congressional Fellows Program, the IEEE has just selected its new Fellows for the 1979–80 congressional term. Thomas L. Fagan Jr., P.E., currently employed as a marketing manager for advanced military space programs at the General Electric Space Div. in King of Prussia, Pa., hopes to spend his time as a congressional Fellow in work related to the Department of Defense or the National Aeronautics and Space Administration. Mr. Fagan, who now serves as Chairman of the Philadelphia Section of IEEE, holds an A.B. degree in mathematics from Franklin & Marshall College and an M.S. in statistics from Villanova University.

P. Gene Smith, an IRE/IEEE member since 1947, hopes to spend his tenure as a congressional Fellow working on "the interrelationship between technology and the country's military, energy, environmental, and economic problems." Mr. Smith holds a B.S. in electrical engineering from the University of Missouri, Rolla, and both an M.S. in electrical engineering and a professional degree in electrical engineering from Massachusetts Institute of Technology.

CONGRESSIONAL TESTIMONY

According to a July report, USAB task forces and staff have generated a formidable amount of congressional testimony so far this year. Areas addressed by either oral or written testimony submitted to congressional committees or subcommittees include pensions, patents, energy, discovery and innovation in electrotechnology, service contracts, Government constraints on U.S. technology, and telecommunications.

TECHNOLOGY CONFERENCE PROCEEDING

The proceedings of the third annual joint TAB/USAB conference on U.S. technological policy, Part I, have been published and sent to conference participants, and to libraries, publications, and reviews. Part II of the proceedings is expected to be published by mid-August. Part I contains the major conference speeches and addresses; Part II will contain reproductions of the audiovisual and slide presentations, along with their accompanying text. The two parts will be bound together and sold through the Piscataway Service Center at prices of $15 for members and $20 for nonmembers.

USAB SPEAKERS BUREAU

USAB can provide speakers on a variety of professional-interest topics for council, region, section or other meetings. For a listing of available speakers see the USAB insert, pp. 2A-2B.

PUB NEWS

SPECTRUM

Nearly two years after its initial announcement in the pages of *Spectrum*, the Amazing Micro-mouse Maze Contest named its $1000 grand prize winner—Moonlight Flash—and closed in a blaze of television cameras and flash bulbs at the National Computer Conference held in New York City on June 5–7. Originally conceived as an interesting technical challenge containing an element of fun, the Micro-mouse contest surprised its *Spectrum* creators by drawing 6000 entries and the enthusiastic attention of the national press, the media, and the public.

The contest represented a continuation of a tradition begun in the 1940s of creating robots, tortoises, and other automatic machines to perform tasks. The first electromechanical mouse was invented in 1950 by Claude Shannon, the acknowledged father of information theory. Dr. Shannon's mouse and maze were on hand to perform at the final contest, where *Spectrum* presented him with a special crystal mouse award for his participation.

For details on the contest and its several winners, see August THE INSTITUTE and the winning design analysis in September *Spectrum*.

Spectrum's special October issue on communications will explore the shifting currents created by solid-state technology that have started to affect all aspects of communications and promise to change radically the operations of our personal and business environment. These changes, their causes, the tools that are instrumental in bringing them about, and their effects on the quality of life, are the underlying themes of this special issue, which will explore the impact of digital technology in the forms of data and of telecommunications, satellite communications, distributive processing, fiber-optic communications, and communication integrated circuits.

Quick-Reference Telephone Roster
(for information referenced in this issue)

HEADQUARTERS (212-644. . .): Bob Asdal 7759, Richard Aseltine 7827, Mel Bonaviso 7891, Reed Crone 7557, Una Lennon 7882, Mark Lucas 8080, Emma White 7870, John Wilhelm 7871.
PISCATAWAY SERVICE CENTER (201-981-0060): Vince Giardina, Michael Sosa.
WASHINGTON OFFICE (202-785-0017): Jill Gerstenzang.