

I. ENGELSON

ELECTRICAL ENGINEERING®

August 1980 **89**

◆ THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

ELECTRICAL ENGINEERING IS BACK HOME IN PUBLIC RELATIONS

With this issue, responsibility for the preparation of EE will be that of Staff Director for Public Relations, Joe Codispoti after four and half years of "temporary" nurturing by Ellis Rubinstein and the SPECTRUM staff. I want to express my deep gratitude to, and appreciation for, the fine job Ellis and his staff have done with EE over those years. Having been a volunteer recipient of EE, and ultimately responsible for it as General Manager I can attest to its real value as an important communication vehicle between the staff operations and IEEE leaders. In the issues to come we might look to evolutionary changes that could make EE an even more effective publication. We look to Joe to use his skills and style to maintain and enhance the quality caliber of EE. If you have any suggestions, now might be a good time to send them to Joe.

Eric Herz
212-644-7910

PR DEPARTMENT ENDING FIRST YEAR; COMMITTEE TO BE EXPANDED

The Public Relations Department, headquartered in New York, will be one year old come September. For those of you who are not familiar with who we are, yours truly is Joe Codispoti, Staff Director for Public Relations, department secretary is Denise Bally. In Washington, D.C., our Public Relations Manager is Anna Freund (202-735-0017). We are actively recruiting a writer for New York who will concentrate on providing PR support for technical, publishing, and educational activities.

While we have been getting organized, some of the more visible outputs of the department have been: a large number of news releases sent to your newsletters as well as the public press; many editorial visits and meetings between IEEE leaders and the press, leading to more press recognition; the 1979 Annual Report which appeared in the June INSTITUTE; development and PR support for the U.S. political platform program; IEEE/industry luncheon program; we have also provided a good deal of less visible counselling in public relations which is available for the asking.

As we get ready to enter our second year, a significant change will take place. The PR Committee, a standing committee of the Executive Committee, will be expanded to 15 people, five of whom will be appointed by the major boards. This will allow more senior level representation to these boards and opportunity for broader participation in this still emerging public relations endeavor.

We will be looking to entity officers, especially, to recognize the need to name a public relations representative who would serve the entity for multi-year terms. Through the PR Committee we will be looking to 1981 to provide a broad range of PR materials, support and training information to these representatives.

J.D. Codispoti
212-644-7866

ELECTION TIME IS HERE: LET'S GET OUT THE VOTE

IEEE ballots are going to be mailed to some 160,000 members at the end of August. Historically, about 30 percent of the members vote; 75 percent of these in the first four weeks of the two-month election period. Entities are urged to do all they can to encourage voting by their members—meeting announcements, newsletter announcements, word-of-mouth.

This year, President Young is calling for a 40 percent voter turnout "as a measure of how seriously we take ourselves in professional and public affairs". "We cannot expect to taken seriously" he states in his September INSTITUTE column, "unless we take ourselves seriously first".

While the top IEEE offices are not being contested, division and regional offices do offer choices, and an important Constitutional amendment needs to be decided by the members. In addition to calling for the adoption of a President-elect concept, the amendment clarifies the role of Delegates and the Assembly, moves a number of procedural matters from the Constitution to the bylaws, and improves the language of the Constitution.

Ballots are mailed third class to regions 1-6; and first class and/or air to regions 7-10. Three weeks should be allowed by members to receive ballots. If you or members do not receive a ballot, contact: Brenda Smith, Independent Election Corporation of America, 110 Wall Street, New York, N.Y. 10005 212-422-1261.

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IEEE

SEP 4 1980

TECHNICAL ACTIVITIES

August 1980

PUBLICATIONS

PUB DEPARTMENT IN NEW QUARTERS

The Publishing Service Department is now in new quarters at 820 Second Avenue (44th Street), just a short hop from IEEE Headquarters. This move was necessitated to make more efficient use of our UEC space (including moving SPECTRUM from the lobby floor), and to provide some growth space for PUB while keeping it together and close to Headquarters. If you're in the neighborhood, why not give us a call (*same phone numbers*) and stop up (*fifth floor*). Please send mail to the usual addresses.

1981 TO SEE SIGNIFICANT EXPANSION IN PAGES

There will be a 36 percent increase in the number of periodical pages printed in 1981 over those printed this year. Much of this unprecedented increase will come from three new S/G Magazines, two of which are noted below, and to the Power Engineering Society's expanded publications plans (see April EE).

In addition to its new 1981 Magazine IEEE COMPUTER GRAPHICS AND APPLICATIONS (see April EE), the Computer Society will also publish in 1981 a quarterly magazine to be called IEEE MICRO. Like COMPUTER GRAPHICS, MICRO will carry advertising and will be published by the staff at the California office of the Computer Society where the present IEEE COMPUTER Magazine is now published.

The Control Systems Society has received approval to convert its present newsletter to Magazine status, and, starting in 1981, will publish quarterly the IEEE CONTROL SYSTEMS MAGAZINE.

MISCELLANY

- We will now publish our Membership Directory annually instead of biannually. Look for details soon.
- At the request of RAB, TAB and PUB have developed a special price for IEEE Section libraries wishing the full complement of IEEE Society periodical publications. Each request for this special arrangement, which involves setting up formal section library facilities, requires the approval of the appropriate Regional Director.

Pat Penick
212-644-7550

- A new IEEE PRESS book entitled "Sensory Aids for the Hearing Impaired" is now available. The 576-page collection of selected reprints is priced at \$23.45 for the paperbound member edition and a clothbound version is available at \$35.20 for members.

Reed Crone
212-644-7557

SPECTRUM SPECIAL

The September SPECTRUM is bringing members an insightful look at several technological developments that can't be done...yet. The editors take a look at the technical benchmarks that must take place and put them into context along with economic and political factors. Among the specific areas are: artificial intelligence, the office of the future, the automated factory, wired homes and electric vehicles.

Ellis Rubinstein
212-644-7562

USAB NEWS

REGION 2 PAC WORKSHOP HELD IN D.C., INCLUDES WASHINGTON OFFICE BRIEFING

PAC Chairmen from Region 2 visited the IEEE Washington office on June 6, as a scheduled session during their Regional Workshop. They were briefed by the Washington staff on USAB programs, the Washington scene and related staff activities.

"It was a 'first'," said Region 2 Director, William C. Farrell, "for both PAC Chairmen and the staff, and it worked well." Joseph A. Edminister, Region 2 PAC Coordinator, called the briefing "an outstanding success... it was a great deal of help to meet the 'real people' behind the names and telephone numbers."

Principal staff members, led by Leo C. Fanning, Staff Director, made brief presentations on their assignments, pointing out the relationship between national USAB projects and local PAC activities. They told how their assignments relate to PAC goals and provided useful information and publications. Government affairs, professional programs, communications and public relations were among the topics covered. An unexpected highlight of the PACs' visit was their opportunity to meet for a brief discussion with IEEE President, Leo Young, who conducts IEEE business from the Washington office, convenient both to his Maryland home and his office.

REGION 1, COMPOW HOST RECEPTION AT ELECTRO

More than 50 women engineers attended a meeting and reception on May 13 at the Sheraton Boston during ELECTRO. The event was sponsored by IEEE Region 1 and the USAB Committee on Professional Opportunities for Women (COMPOW) for the purpose of informing women engineers of IEEE activities in their behalf.

The group was addressed by Stella Lawrence, COMPOW Representative for Region 1, and Amy Spear, who chairs the Boston Section, as well as Thelma Estrin, Director of Division VI and former head of COMPOW. Checking the group's interest in COMPOW's tasks was newly appointed COMPOW Leader, Mary Alys Lillard. On hand to greet all participants were Region 1 Director Hans C. Cherney and past director James. E. Shepherd.

Women engineers supported the concept of a "new girls network" supplanting the "old boys system." They saw the need to bring women together, to learn about politics, to organize, and to work together to solve problems. Working together included such concepts as sharing the benefits of experience, becoming a mentor, support for re-entry women, and forming more women's committees, particularly in large corporations, to work with top management.

Expanded COMPOW events are being planned now for WESCON and MIDCON.

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 Public Relations Department of The Institute of Electrical and Electronics Engineers, 345 East 47 Street, New York, N.Y. 10017—Telephone 212-644-7866.

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.



FIELD SERVICES

The Field Services Department has relocated to the IEEE Service Center.

IEEE Field Services
445 Hoes Lane
Piscataway, New Jersey 08854

Phone: (201) 981-0060
Hours: 8:00 A.M. - 4:00 P.M. Monday-Friday
International Telex No. 23-6411

Following is a directory of services and staff members you may contact for inquiries and assistance.

	Name	Ext.
<u>GENERAL POLICY/ADMINISTRATION</u>	Patricia D. Lech Staff Director	210
<u>REGIONAL ACTIVITIES BOARD SECRETARIAT</u> Region Support and Region Finances	Laura V. Sudano Administrative Assistant	211
<u>SECTIONS, SOCIETY CHAPTERS, STUDENT BRANCHES</u> Administration, Policy and Services	Mark Lucas Manager	216
<u>SECTION AND SOCIETY CHAPTERS SUPPORT</u> Section Rebates and Order Billing, Officer Records, Section/Chapter Formations, Section/Chapter Supplies, Certificates Label Addressing Services	Gloria O. Kearns Supervisor	212
	Sheryll Mayr	214
<u>STUDENT BRANCHES</u> Branch Support and Services, Student Branch Rebates, Student Awards, Branch Supplies	Rhonda Nichols Coordinator	165
<u>MEMBERSHIP DEVELOPMENT AND MEMBER SERVICES</u> Membership Development Programs, Member Services, Administration and Policies	Roseann Schulz Manager	132
<u>MEMBER SERVICES SUPPORT</u> Membership Applications, Member Inquiries on Qualifications, Dues, Society and Subscription Payments, Membership Certificates/ Jewelry, IEEE Benefit Plans-Insurance, Avis Car Rental	Peggy Kovacs Supervisor	131



IEEE

Contact: Roseann Schulz
(201) 981-0060
Ext. 132

Membership Development

NOW is the time to organize your Membership Development Committee so that it will be functioning when the meeting season starts. Set objectives and goals for IEEE growth and plan MD programs and campaigns. Be sure you have an ample supply of MD materials on hand and become thoroughly familiar with the brochure "IEEE MEMBERSHIP INFORMATION". MD officers are encouraged to communicate and seek the resources and support of their MDC Regional or Divisional Representative. *YOUR FEEDBACK IS NEEDED.* (Please refer to reverse side of this insert for addresses and telephone numbers of MDC Representatives)

FALL BONUS PERIOD

Perhaps you are considering an early Fall membership drive. September 1 begins the *BONUS PERIOD*. The 12 month dues payment required with the application is applied through December 31, 1981. Up to 15 months benefits and services can be enjoyed for only 12 months dues. This same "BARGAIN" is extended to services from the IEEE societies which the new member joins simultaneously. *THIS CAN BE USED TO ENCOURAGE ENROLLMENT OF NEW MEMBERS.*

SIMPLIFIED FORM FOR ELEVATION TO SENIOR MEMBER GRADE

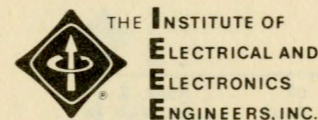
EACH MEMBER SHOULD HOLD THE HIGHEST GRADE FOR WHICH HE/SHE QUALIFIES. In support of "1980 YEAR OF THE SENIOR MEMBER", the Admission and Advancement Committee has approved a *SIMPLIFIED* application for *ELEVATION* to Senior Member grade. The request for information already recorded on the member's record has been omitted from this form--yet, the completed application will furnish the necessary information for the Admission and Advancement Committee to clearly determine the applicant's qualifications for Senior Member Grade. This Senior Member Elevation form is now available and will be forwarded upon request.

For MD action, please contact Roseann Schulz, IEEE Service Center, (201) 981-0060, ext. 132.

Chairman*	Vice Chairman*	Region 1 Representative
Calvin O. Stoutz 21 Stoney Clover Lane Pittsford, N.Y. 14534 (716) 722-2390 (O) (716) 381-2177 (H) (716) 458-1000, Ext. 73679 (for Telecopier)	O P E N	Bernard De Marinis 87 Monmouth Road Spotswood, N.J. 08884 (201) 747-9303 (O) (201) 251-2069 (H)
Region 2 Representative	Region 3 Representative	Region 4 Representative
Richard J. Schindler Ohio Bell Telephone, Rm. 1926 1300 East 9th Street Cleveland, Ohio 44114 (216) 822-2726 (O) (216) 237-4378 (H)	Ensign Johnson Vanderbilt Univ., EE Dept. Box 1722, Station B Nashville, Tn. 37215 (615) 322-2771 (O) (615) 292-2961 (H)	Professor Harry G. Hedges Michigan State University East Lansing, Mi. 48824 (517) 353-6484
Region 5 Representative	Region 6 Representative	Region 7 Representative *
David E. Snavely 2300 Fountainview #21 Houston, Tx. 77057 (713) 656-3225 (O) (713) 977-3796 (H)	Roy Yee KEM's, Inc. 2234 Hoonee Place Honolulu, Ha. 96819 (808) 845-6402 633164 Telex	C. E. Spike Univ. of Waterloo, Dept of EE Waterloo, Ont., Can. N2L 3G1 (519) 885-1211, Ext. 3716 Telecopier Ext. 3935 Telex - 069 55 259
Region 8 Representative	Region 9 Representative	Region 10 Representative
C.J.M. van der Wulp TNO Research Unit, EEG Dept. Westeinde Hospital Lijnbaan 32 2512 VA, The Hague, Netherlands	Eduardo Bonzi Correa Casilla 9807 Santiago, Chile	D. N. Purandare 31 C. Dr. Na Purandare Marg Bombay 40007, India 358867 (H) 272144 & 271898 (O) WIECOL BOMBAY (Tele. address)
Division I Representative	Division II Representative *	Division III Representative
Col. Allen D. Dayton 10221 Raider Lane Fairfax, Va. 22030 (202) 692-2347 (O) (703) 273-0860 (H)	Martin Plotkin Brookhaven National Lab. Upton, N.Y. 11973 (516) 345-4717	William Hibbard 120 Piping Rock Road Silver Spring, Md. 20904 (301) 344-7889
Division IV Representative	Division V Representative	Division VI Representative
Richard Sparks Raytheon Company Hartwell Road Bedford, Ma. 01730 (617) 274-7100, Ext. 4708	Ronald G. Hoelzeman Univ. of Pittsburgh 348 Benedum Hall, EE Dept. Pittsburgh, Pa. 15261 (412) 624-5396 (O)	Thomas H. Grim 3392 Avalon Road Shaker Heights, Oh. 44120 (216) 822-8871 (216) 561-9110
Division VII Representative	Past MDC Chairman	Chairman, 1980 RAB SAC
Robert E. Mendoza Public Service Electric & Gas 80 Park Place, Room 6302A Newark, N.J. 07101 (201) 430-7678 (O)	K. Reed Thompson 4528 Wyndale Avenue, S.W. Roanoke, Va. 24018 (703) 387-7370 (O) (703) 989-9402 (H) (703) 387-7497 (Telecopier)	Eric M. Aupperle University of Michigan Merit Computer Network 5115 IST Building Ann Arbor, Mi. 48109 (313) 764-9423 (O) (313) 665-8043 (H)
	IEEE Staff Secretary*	
	Roseann Schulz IEEE Service Center 445 Hoes Lane Piscataway, N.J. 08854 (201) 981-0060, Ext. 132	

*Planning & Evaluation Committee

MML 6/80



June 1980

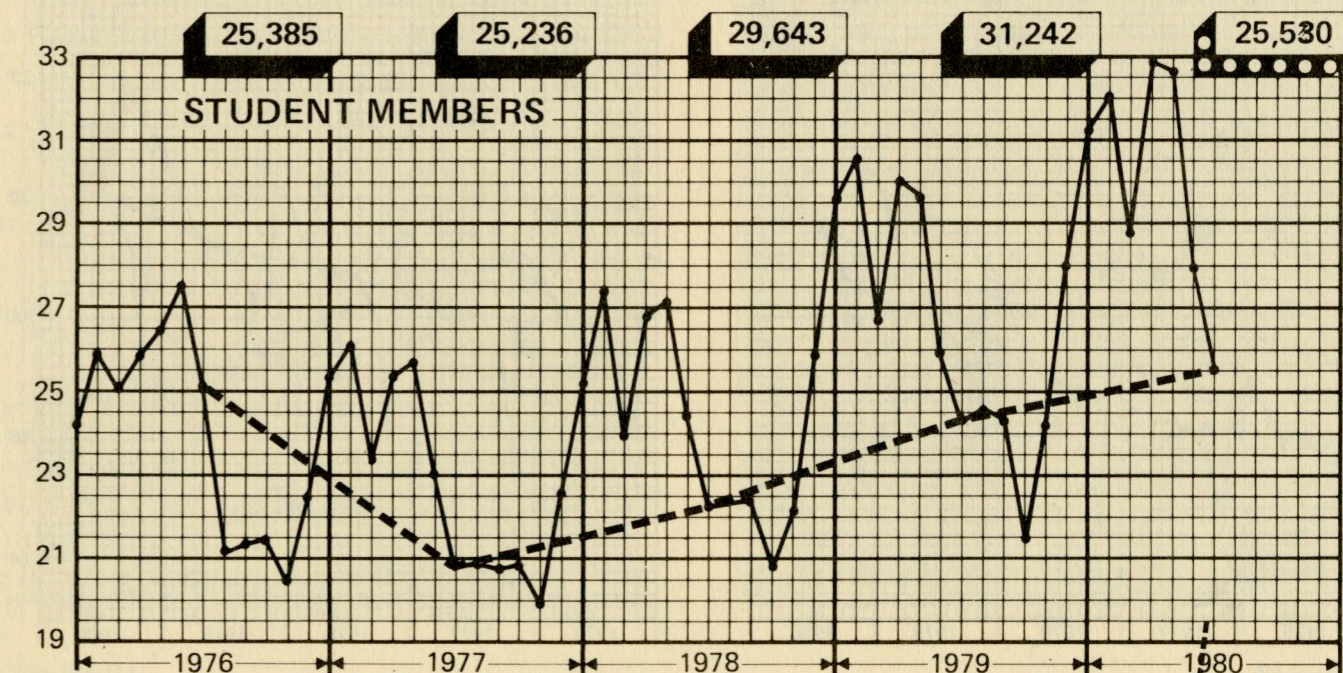
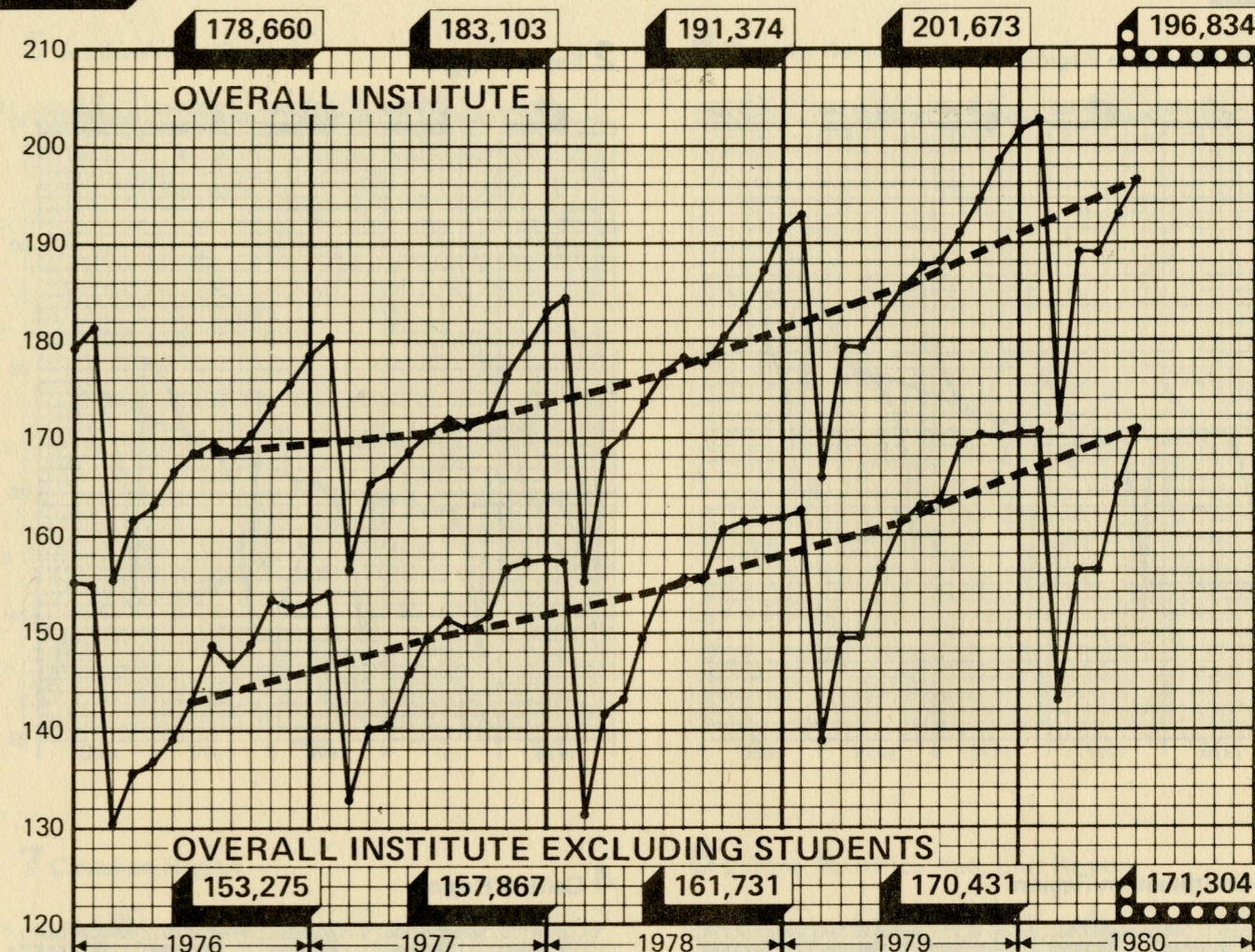
Region	MEMBERSHIPS		Growth	% Growth	YEAR END GOAL # / %	% of # GOAL	RANK
	6/30/80	6/30/79					
1	38808	37309	1499	4.0%	T		9
2	27620	26782	838	3.1%			10
3	19774	18092	1682	9.3%	B		3
4	20048	19112	936	4.9%			7
5	18556	17564	992	5.6%			6
6	38549	36242	2307	6.4%	A		5
1-6	163355	155101	8254	5.3%			-
7	10851	10426	425	4.1%	T		8
8	9666	8526	1140	13.4%			2
9	4178	3838	340	8.9%	B		4
10	8784	7730	1054	13.6%			1
8-10	22628	20094	2534	13.0%			-
Total 1-10	196834	185621	11213	6.0%	A		-
SOCIETY/GROUP MEMBERSHIPS BY DIVISION							
Division							
I	28974	26653	2321	8.7%	T		3
II	27437	25910	1527	5.9%			5
III	30418	27304	3114	11.4%			2
IV	28924	26821	2103	7.8%	B		4
V	44874	38261	6613	17.3%			1
VI	25248	23994	1254	5.2%			6
VII	19867	19677	190	1.0%	A		7
G/S Total	205742	188620	17122	9.1%			-
Students	25530	24383	1147	4.7%	TBA		-
Senior Members	21261	21081	180	1.0%	TBA		-

Division	MEMBERSHIPS HELD		GROWTH	% GROWTH	Year End Goal # / %	% of # Goal	Rank % Growth
	6/30/80	6/30/79					
I ASSP 01	7359	6535	824	12.6			4
CAS 04	9768	9021	747	8.3	T		7
IT 12	4609	4353	256	5.9			19
CS 23	7238	6744	494	7.3			14
I Subtotal	28974	26653	2321	8.7	B		-
II NPS 05	2882	2717	165	6.1			16
VT 06	2506	2415	91	3.8	A		27
IM 09	4900	4702	198	4.2			25
IECI 13	5249	4977	272	5.5			20
ET 32	1450	1393	57	4.1			26
IA 34	10450	9706	744	7.7	T		10
II Subtotal	27437	25910	1527	5.9			-
III BCCE 02	6880	6143	737	12.0			5
AES 10	6810	6391	419	6.6	B		15
COM 19	13527	11760	1767	15.0			3
EMC 27	1832	1702	130	7.6			11
GEO 29	1369	1308	61	4.7	A		22
III Subtotal	30418	27304	3114	11.4			-
IV AP 03	4528	4207	321	7.6			11
ED 15	8538	7644	894	11.7	T		6
MTT 17	5669	5349	320	6.0			18
SU 20	2052	1948	104	5.3			21
CHMT 21	2704	2589	115	4.4			23
MAG 33	2372	2199	173	7.9	B		9
QE 36	3061	2885	176	6.1			16
IV Subtotal	28924	26821	2103	7.8			-
V COMP 16	44874	38261	6613	17.3			1
VI R 07	2813	2616	197	7.5	A		13
EM 14	7546	6967	579	8.3			7
EMB 18	6586	6538	48	0.7			30
E 25	2135	2047	88	4.3			24
PC 26	1956	1683	273	16.2			2
SMC 28	4212	4143	69	1.7			28
VI Subtotal	25248	23994	1254	5.2			-
VII PE 31	19867	19677	190	1.0			29
Total G/S	205742	188620	17122	9.1			-

MEMBERSHIP PROGRESS



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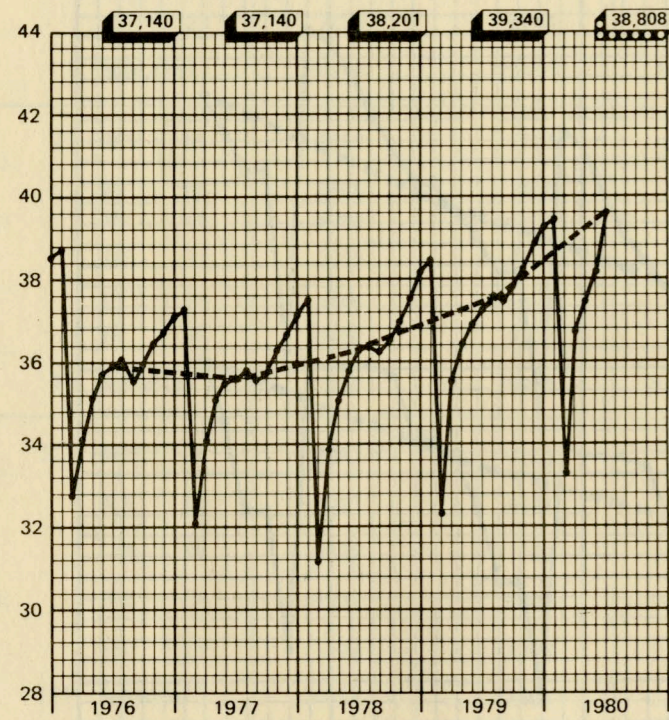


MEMBERSHIP PROGRESS

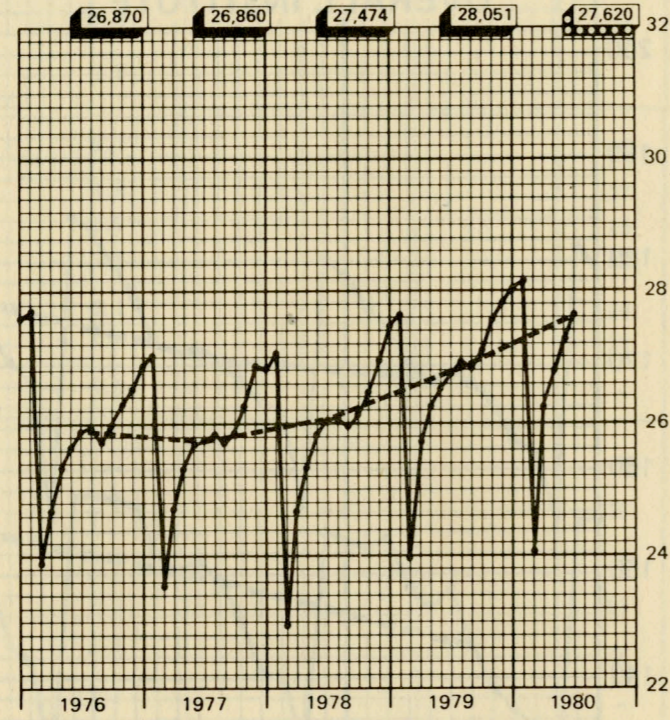
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1 Northeastern Region

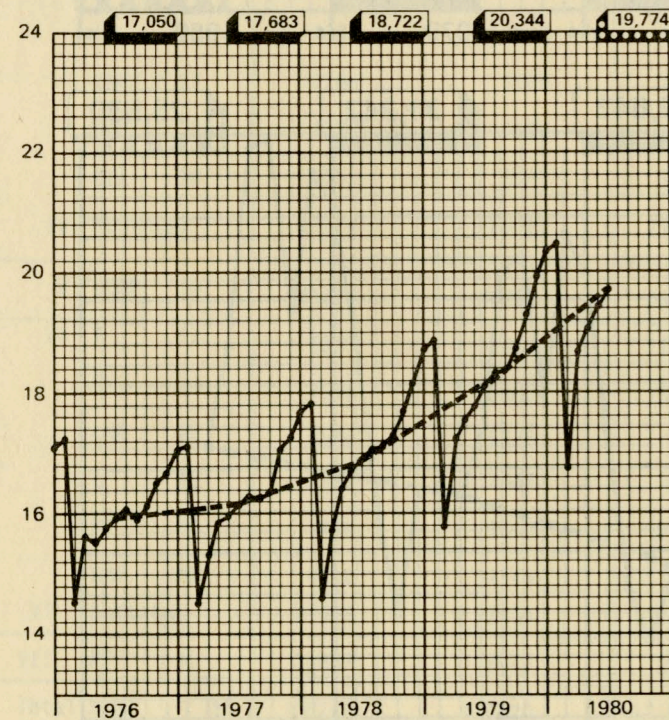


2 Eastern Region

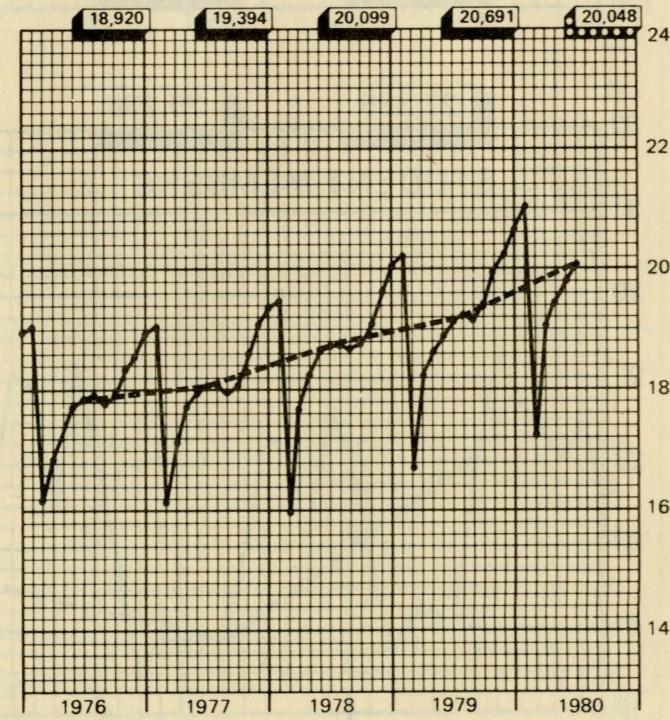


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3 Southeastern Region





4 Central Region

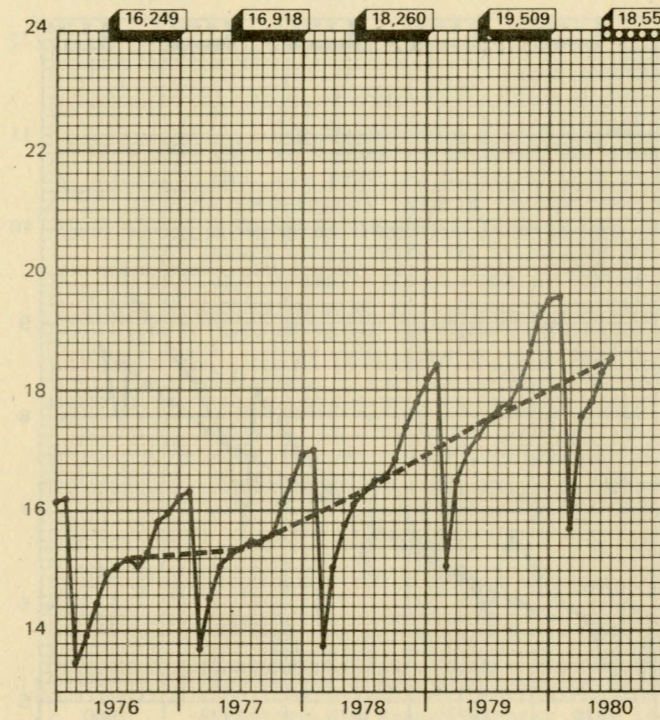


MEMBERSHIP PROGRESS

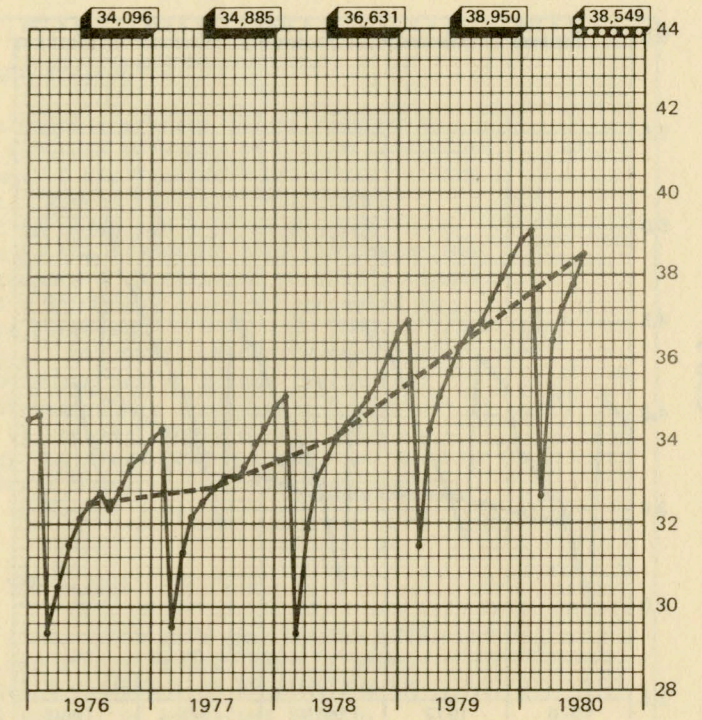
JUNE 1980

 This month
 Year end

5 Southwestern Region

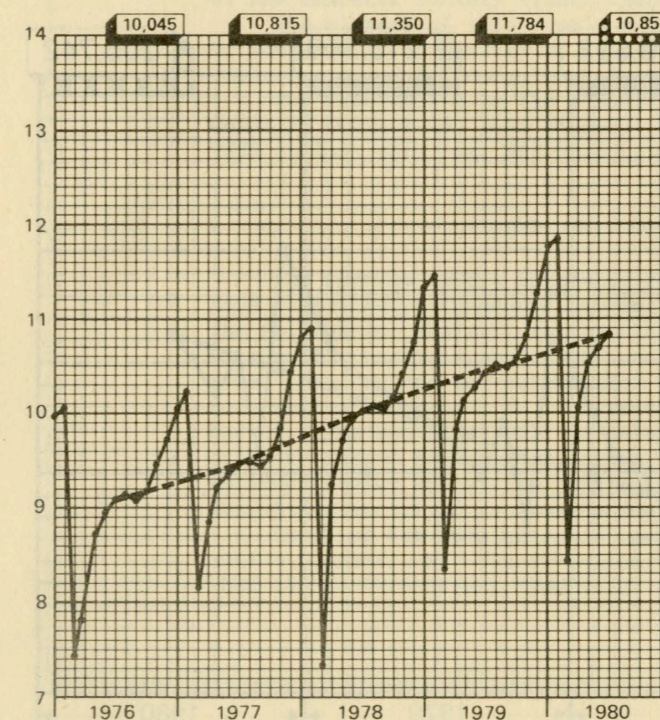


6 Western Region

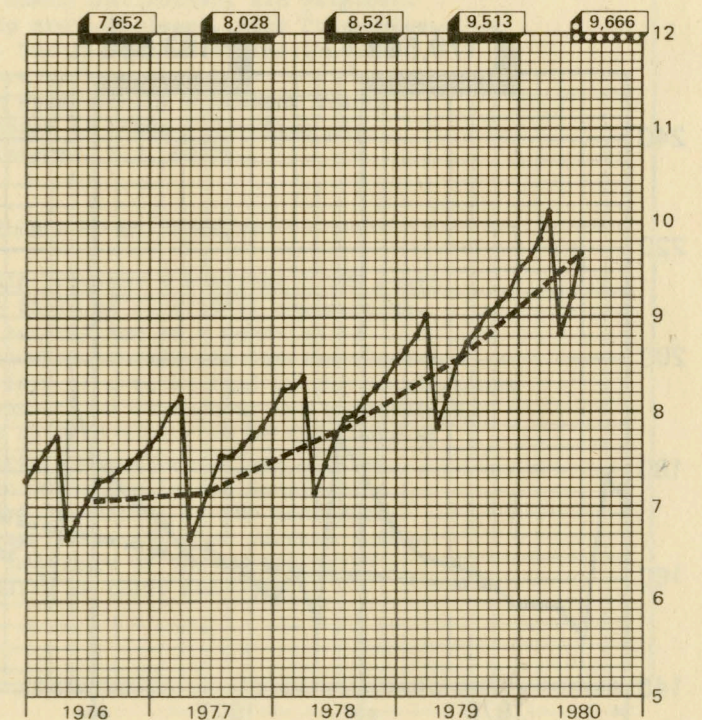


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7 Canadian Region



8 Europe, N. Africa, Mid. East Region



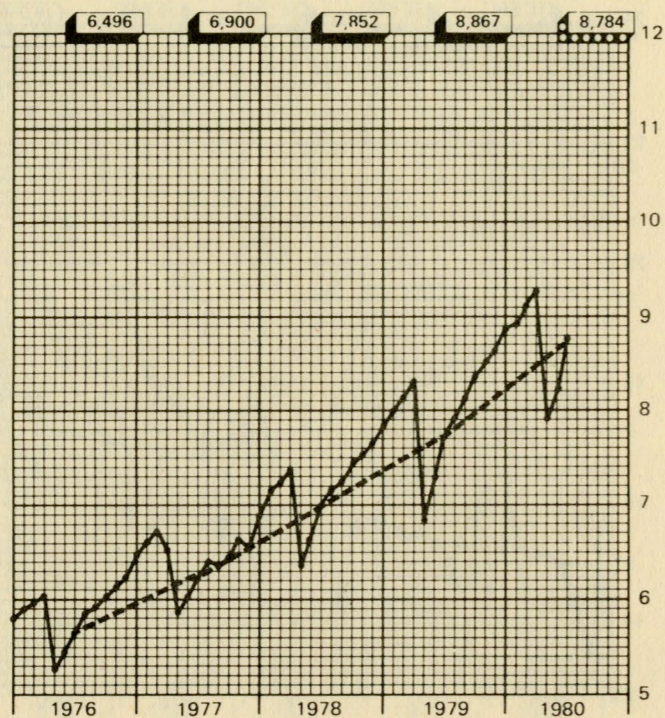
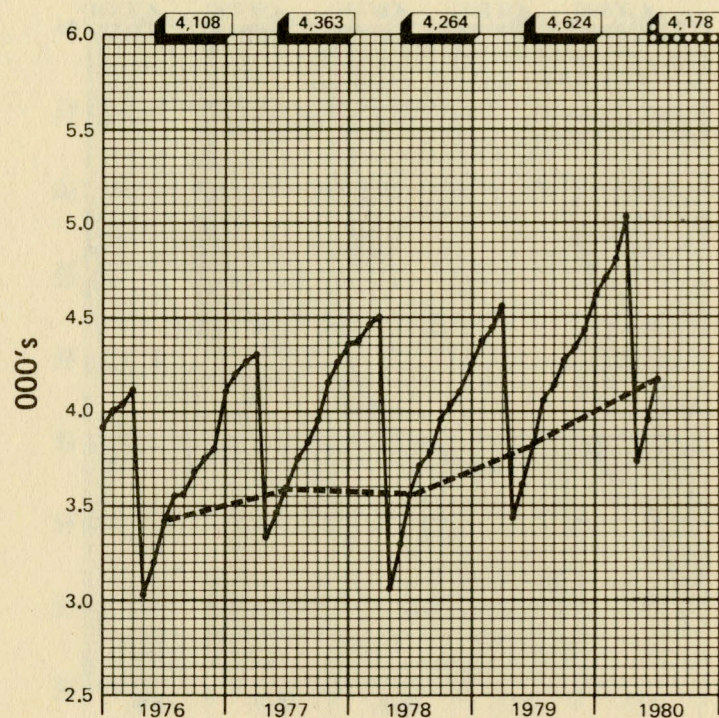
MEMBERSHIP PROGRESS

JUNE 1980

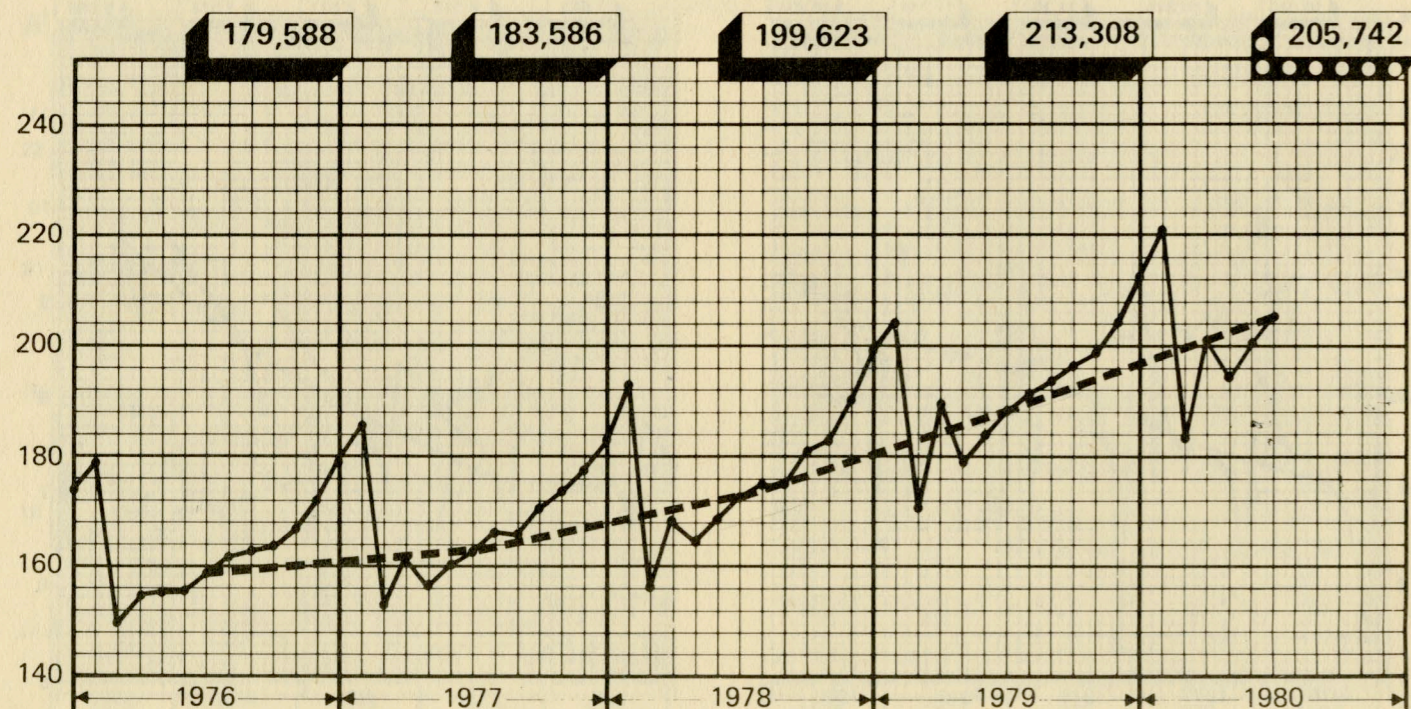
▬ This month
▬ Year end

9 Latin American Region

10 Rest of the World



THE SOCIETIES & GROUPS-TOTAL MEMBERSHIPS HELD



Student Activities News

OUTSTANDING COUNSELOR RECIPIENTS

The Outstanding Counselor/Advisor recognition program was instituted in 1979 to formally recognize the invaluable services provided by Branch Counselors. As a Professional Society, IEEE is cognizant of the increased pressures faculty experience in today's academic environment. Hence, the Institute Student Activities Committee felt it was important to establish a program which would serve to maintain the awareness of academe of the important role the Counselors and Advisors play in the development of students. In addition to IEEE's formal expression of gratitude, a certificate and a \$500 cash award is presented to each of these individuals at an appropriate function.

The recipients of this year's award are: Dr. David Gisser, Rensselaer Polytechnic Institute; Prof. Fernando Segovia, Technical Career Institutes; Prof. Samuel Skarote, Youngstown State University; Dr. Leon Couch, University of Florida; Dr. Stanley Burns, Iowa State University; Prof. George Moore, South Dakota School of Mines and Technology; Dr. Ragupathy Bollini, Southern Illinois University; Dr. M.A. Rahman, Memorial University of New Foundland; and Prof. Roberto Perez-Colon, University of Puerto Rico.

COMPUTER SOCIETY SCHOLARSHIP

Four \$2000 scholarships were awarded to students this year by the IEEE Computer Society. These scholarships are one of the several ways in which the Computer Society supports the growth and development of Student Branch Chapters. A Branch Chapter is a technical subunit of a Student Branch.

The scholarship was established to recognize and reward students who are active in their IEEE Computer Society Student Branch Chapter and who show promise in their academic and professional efforts. Graduate students, juniors, and seniors in electrical engineering, computer science, or well defined computer related fields of engineering, who are active members of the Computer Society Branch Chapter at their institution, are eligible.

The winners of this year's scholarship are: B. Iyeri, Rice University, M. Montgomery, University of Tennessee; A. Teruli, Rochester Institute of Technology; and B. Young, Iowa State University.

For information on the scholarship or establishing a Student Branch Chapter, contact Ms. Roni Nichols, Coordinator of Student Services at: IEEE Student Services, 445 Hoes Lane, Piscataway, N.J. 08854.

FORTESCUE FELLOWSHIP AVAILABLE TO EE STUDENTS

The Charles LeGeyt Fortescue Fellowship provides a one-year \$7000 award to a full-time postgraduate student in the field of electrical engineering. The fellowship, administered by IEEE, was established as a memorial to Charles Fortescue in recognition of his valuable contribution to the electrical power industry and was established in the form of a trust fund by the Westinghouse Corporation with which Dr. Fortescue was associated throughout his professional career. The recipient will be selected by an IEEE committee on the basis of Graduate Record Examination scores, transcripts covering college courses, extracurricular activities, and information contained in the application, including letters of recommendation provided in support of the candidate.

Deadline for submission of applications is Jan 15. For further information contact: Ms. Una B. Lennon, Staff Secretary of the Awards Board at IEEE 345 E. 47th Street, New York, N.Y. 10017, or (212) 644-7882.



IEEE

Vince Giardina
201-981-0600
x174

Continuing Education Services

IEEE 1980 SCHEDULE OF COURSES

Digital Signal Processing	Richland, WA	Sept. 11-12
Mini/Microcomputer Applications	Binghamton, NY	Sept. 20
Power Systems Relaying	Portland, OR	Sept. 23-24
ATLAS	Las Cruces, NM	October
Digital Signal Processing	Atlantic City, NJ	Oct. 1-3
Fundamentals of Protective Relaying and Systems Grounding	Greenville, SC	Oct. 7-9
Microprocessor Seminar	Daytona, FL	Oct. 10-11
Microprocessor Seminar	Canton, OH	Oct. 16-17
Introduction to Solid State	Palo Alto, CA	Oct. 17-18
Practical Applications of Symmetrical Components	Bothell, WA	Oct. 17-18
Introduction to CAD/CAM	Akron, OH	Oct. 20-22
OSHA Electrical	Mobile, AL	Oct. 21-22
There is a Microprocessor in Your Future	Beaumont, TX	Oct. 23-24
Introduction to Solid State Power	Ames, IA	Nov. 10-11
Protection and Grounding of Distribution Systems	Bothell, WA	Nov. 14-15
CAMAC	Santa Clara, CA	Nov. 15
Intel 8085	New York, NY	November
Communication for Results	Atlantic City, NJ	Dec. 8
Navigation Satellite Systems	Atlantic City, NJ	Dec. 8



IEEE

Contact: T. M. Schmall
(212) 644-7906

Standards Activities

IEEE/NRC/BNL CONFERENCE RECORD NOW AVAILABLE!

Held in Myrtle Beach, South Carolina in December 1979, this six-day workshop was the first of its kind. The interdisciplinary and international participation produced a frank and highly productive report. The theme of the workshop was: "The human - the key factor in nuclear safety."

A selected group of experts, in an effort to evaluate the human in the environment of the present generation of nuclear power stations, undertook the following tasks:

- Identification and evaluation of methods which analyze human action and errors subject to conditions present within nuclear station design.
- Assessment of the state-of-the-art of human factors relating to nuclear safety and offering recommendations for future research needed in the quantitative process to improve the performance of the operator.
- Development of the framework for future standards in human reliability.
- Establishment of effective communication between experts whose knowledge is essential to confront human factors that effect nuclear safety.

The workshop considered such interests as: industry, government, legislators and the general public. Each of five working groups covered 1) Maintenance/ Calibration/Standard Operating Procedures, 2) Operator Annunciation, 3) Situation Analysis, 4) Operator Action/Intervention, 5) Situation Modification Factors.

Each group recommended required standards, and research and development efforts. Since the key people involved were from divergent fields, a lively and fruitful discussion resulted between guest speakers and attendees.

This is a thorough report on a meeting that was itself an experiment in human factors and an ambitious undertaking that provided a significant and timely message to industry.

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ON
HUMAN FACTORS AND NUCLEAR SAFETY
(TH 0075-2)

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\$25.00	\$22.50		
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* Note 10% member discount (IEEE members are entitled to a 10% discount on one copy of any document for their personal use. To claim this discount, the IEEE member's number must be included.)

NATIONAL PAC WORKSHOP SCHEDULED

September 5, 6 and 7 are the dates, Denver is the place for the 1980 National PAC Workshop.

The National workshop provides a forum for PAC input to the 1981 USAB program and for review and exchange of ideas on current projects.

For information on the workshop and attending it, call or write:

- Robert A. Barden, National PAC Chairman, 416 Victory Drive, Lake Ronkonkoma, New York 11779, (515) 585-1512. Bob would like to hear your ideas and suggestions for this workshop.
- Your Regional or Divisional PAC Coordinator, if you're interested in participating.

NEWSWIRE FOR IEEE MEMBERS

The Washington Office produces recorded messages of professional interest, which can be heard by dialing 202/785-2180. Up-to-the-minute news of pending legislation, USAB activities, meetings or calls for action are "phonecast".

USAB URGES NATIONAL TECHNOLOGY POLICY AS PLATFORM PLANK

Continuing the USAB effort to influence the national political platforms, Dr. Richard J. Gowen urged the Democrats to endorse the IEEE campaign to adopt a national technology policy. Gowen told the National Platform Committee, meeting in Washington on June 14, that IEEE's Board of Directors had approved unanimously a policy statement encouraging the U.S. to adopt a national technology policy.

"We need to recognize," Gowen said, "that it is through the application of technology that we provide the goods and services upon which our national economy is based and that increasingly we are being challenged and occasionally overshadowed by other nations in applying this technology. We must give special attention to the revitalization of our productive capacity and to the professional community that translates the work of scientists into the products we use and on which we depend for our quality of life."

Dr. Gowen's presentation was one of a number made to both Democratic and Republican platform committees on innovation, energy and pensions during the past several months.

USAB SUPPORTS EFFORTS TO RESTORE NSF FUNDS

The House appropriations subcommittee has proposed a bare 2.5 percent increase over the FY 1980 amount for Engineering and Applied Science programs at the National Science Foundation (NSF). One member of the House Science Committee, Rep. Allen Ertel, will fight this cut and, in doing so, will cite a letter sent to him by Richard Gowen on June 27. Gowen wrote that USAB has noted "with alarm" the reductions the appropriations unit proposes in the E&AS programs. "We believe there are valuable initiatives in support of small business stimulation of innovation, industrial technology and support for areas where unemployment is particularly high that would profit from additional funds in FY 1981. We strongly support your proposal to add approximately \$8.5 million to the NSF for work in these areas" Gowen wrote.

*Gloria Aukland
202-785-0017*

TAB NEWS

ENGINEERING FOUNDATION EXPANDS GRANT OPPORTUNITIES

The Engineering Foundation of the five Founder Societies has increased the number and value of Research Initiation Grants. The number of grants has been increased from 10 to 15 and the value from \$12,000 to \$14,000 per grant. Details are available from me.

COMMITTEE SET TO DEVELOP CHARTER FOR PROPOSED SOCIETY

In response to a petition by more than 600 higher grade members calling for the formation of a Society on the Social Implications of Technology, an ad hoc committee was named at the July TAB meeting by Chairman Larson to prepare a charter and Constitution.

Since there was no agreement on whether such an entity, if approved, would be a Society, a Council, or some combination, a key charge to the committee was to define this entity's organizational nature. As proposed, however, this would be a new entity and not an upgrading of the existing Committee on the Social Implications of Technology (CSIT).

The ad hoc committee will report back to TAB at the December meeting. The committee is chaired by Stephen H. Unger and includes Jack Jatlow of the Engineering Management Society, William Underwood of the Power Engineering Society and F.A. Furfari, Division II Director.

*Irving Engelson
212-644-7890*

EAB NEWS

LOW COST PACKAGED COURSES

A new continuing education package program that is low cost and uses local instruction is now available for Fall scheduling. Participants will qualify for the IEEE Continuing Education Achievement Unit. A typical course "package" will handle 15 participants and will include an instructor's manual, visuals, student workbooks, examinations evaluation forms, input forms for the record-system and other course related materials. Each course consists of approximately 12 contact hours of instruction with four to six weeks at 2 to 3 hours/week for a normal recommended schedule.

Our initial program includes the following titles:

- "Microprocessor Seminar" by Dr. Hans van den Biggelaar
- "Computer Automated Measurement and Control (CAMAC) by Dale Zobrist
- "Protection and Grounding of Distribution Systems" by J. Lewis Blackburn
- "Basic Project Management-Planning, Scheduling, and Control" by Merrill W. Buckley, Jr.
- "Practical Fiber Optics" by Forrest Mims
- "BASIC for Beginners" by Rex Beers

NEW "DIVISION OF SURPLUS" FOR EDUCATION PROGRAMS SET

EAB has changed its incentive program to more easily tie the "division of surplus" to class size. Commencing with programs scheduled for Fall 1980, this new approach to surplus-sharing permits the unit leaders to better forecast the financial successes that can be brought about with larger class sizes. The sharing is calculated on a per capita basis graduated to fit the class sizes. The plan has been designed to encourage the IEEE Education Chairmen to place more emphasis on the pre-course activities and to increase member participation.

Vince Giardina
201-981-0060

AVIS CAR RENTAL DISCOUNT INCREASED

Effective August 1, 1980 the discount rate on regular time and mileage change for U.S. AVIS rentals has been increased to 30 percent. The 10 percent discount in Canada, and international zones is also in effect, subject to details of the contract. AVIS will aggressively promote this new discount plan with advertising in SPECTRUM and direct mail marketing. Staff personnel have been alerted to this program. IEEE/AVIS identification number remains the same A/V606000, and all inquiries regarding this member benefit should be directed to the AVIS District Service Representative, Avis Rent-A-Car System, Inc., 1114 Avenue of the Americas, New York, 10036, phone: 212-398-2986.

Charles F. Stewart
212-644-7769

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* :

Apr.	10.80%	
May	6.84%	
June	6.00%	
July/Sept.	6.25%	(estimated)

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

Apr.	12.71%	
May	8.46%	
June	8.16%	
July/Sept.	8.50%	(estimated)

Investment Option 3—Bond Plan†

Apr.	11.25%	
May	10.54%	
June	10.25%	
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 at 201-981-0060, Ext. 123, or Thomas W. Bartlett at 212-644-7748.