

ELECTRICAL ENGINEERING®

 NUMBER
74

EXECUTIVE COMMITTEE ACTS ON ETHICS, NOMINATIONS FOR IEEE VICE PRESIDENTS, AND GENERAL MANAGER

Meeting in New York on January 14, IEEE's Executive Committee took several actions of particular interest to the membership. A major revision of Bylaw 112, dealing with implementation procedures for IEEE's Code of Ethics and Professional Conduct was referred to IEEE's major Boards for consideration prior to the February 18-20 meeting of the Board of Directors. The action is pursuant to discussion of proposals tabled at the November 1977 meeting of the Board.

An amendment to Bylaw 313.5, providing a means for individual voting members to propose, by petition, names to be considered by IEEE's annual Assembly, including the positions of Vice President of the major IEEE Boards, will be placed on the February agenda. This proposed amendment is consistent with existing provisions in the Constitution.

Not requiring Board of Directors' approval was a third action of the Executive Committee: to name Richard Emberson, General Manager. Dr. Emberson has been Executive Director and Acting General Manager since

the resignation of H. A. Schulke, Jr., in mid-1977.

On the matter of ethics, the Executive Committee voted to submit several changes in Bylaw 112 to the Technical, Regional and U.S. Activities Boards for their comment. Among the proposed changes, the title of that Bylaw --presently, "Expulsion, Suspension or Censure of a Member"--would, with concurrence from the Board, be changed to "Member Discipline and Support." The principle behind this and other ExComm-approved changes is to provide a mechanism by which IEEE may step in to assist a member whose career is (or has been) jeopardized by adherence to the Code of Ethics and to discipline Code violators. Further, it merges what had been two separate IEEE procedures. Formally named in the proposed Bylaw revision is a "Member Conduct Committee" which is to be "composed of three members of the IEEE who are not members of the Board of Directors...or employees of IEEE." Somewhat like a Grand Jury, the committee would have the responsibility for determining whether there was due cause to



New IEEE Directors at Headquarters on January 12 are briefed by IEEE staff and Junior Past President Robert Saunders during orientation session.

institute proceedings under the Bylaw. Should a complaint be held as warranting adjudication, the committee would bring the matter before a "hearing board" picked from a standing pool of at least 20 members. If adopted, details of the procedure will affect all members and therefore will be covered in a future issue of The Institute.

On the matter of new nomination procedures, if the Bylaw 313.5 amendment is approved by the Board, a name may be proposed to the annual Assembly if at least one percent of the total number of voting members signs a petition in behalf of the candidate. The annual Assembly elects the Vice Presidents for Technical, Professional, Regional, Educational, and Publications Activities, the Secretary-Treasurer, the Director of Standards Activities, and, every two years, the Director of Region 10. For the last office, a petition will be considered valid if signed by at least 100 members of that Region.

PRESIDENT-ELECT CONCEPT EXPLORED

The IEEE Board of Directors at its November 1977 meeting decided to recommend a Constitutional Amendment, to appear on the 1978 ballot, that would establish the office of President-Elect. Under the concept, the IEEE President would be elected one year before taking office, and would spend that year both as IEEE's current Executive Vice President and as a "President-in-Training."

If this concept is approved by the membership, two sentences would be added to Section 1 of Article VIII of IEEE's Constitution reading: "During the first year immediately following election, the elected IEEE President shall be the President-Elect and Executive Vice President. During the second year following election he shall serve as President."

See the December 1977 issue of EE (p. 2), and the January 1978 issue of The Institute (p. 3) for more information. Arguments for and against this proposal are solicited and should be sent promptly to the General Manager.

1977 PRESIDENT SAUNDERS HONORED

The Senate of the State of California has formally commended Junior-Past President Robert M. Saunders for his "numerous and invaluable contributions to his community

and state." Specifically mentioned in his citation were Dr. Saunders' roles as the "founding Dean of the School of Engineering at the University of California at Irvine" and his over 40 years as a member, and his presidency, of IEEE.

TAB NEWS

IEEE has joined the Engineering Societies Commission on Energy (ESCOE), a nonprofit organization devoted to research on U.S. energy problems. IEEE President Getting has appointed two members to the ESCOE Board: Hilton U. Brown, III, 1978 IEEE Energy Committee Chairman, and Neil D. Pundit, staff Director of Technical Activities.

At its annual meeting on October 17, 1977, the Oceanic Engineering Council voted to return to sole sponsorship of the OCEAN series of conferences, effective with the 1979 meeting. It is expected that OCEAN '79, under IEEE sponsorship, will be held on the West Coast.

IEEE has been invited to participate in the 1979 U.N. Conference on Science and Technology for Development to be held in Vienna, Austria. Assigned to coordinate IEEE's technical inputs has been staff Director Neil Pundit.

Realizing the economic hardship on retired members and senior citizens, the Institute has revised the policy on conference registration fees, recommending that Conference Committees lower or waive fees for Life and retired members.

Audrey Bickel has joined IEEE as administrator for TAB committees, replacing Audrey van Dort who retired in December. Ms. Bickel's initial assignment is to work with the Joint Telecommunications Advisory Committee and the Transnational Relations Committee.

USAB NEWS

Three recent pension workshops involving IEEE and members of Congress have brought the Institute a step closer to introducing legislation into the current session of Congress. The IEEE pension legislation, which would amend current tax laws to acknowledge the difference between prevesting and postvesting in a pension program, would allow an individual to invest in an IRA (up to the legal

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United States Activities Board

UNITED STATES ACTIVITIES BOARD

1978

IEEE FUNCTION	NAME	TERM	OTHER USAB FUNCTION	COORDINATOR FOR OR LIAISON TO
VICE PRESIDENT	BRUNO O. WEINSCHEL	1978	CHAIRMAN	PATENTS, SILA (STATE), USILA (FEDERAL, U.S. R&D IN ELEC., CONGRESSIONAL FELLOWS)
REGION 1 DIRECTOR	JAMES SHEPHERD	1978-79		
REGION 2 DIRECTOR	HOWARD HAMILTON	1978		
REGION 3 DIRECTOR	ROY HARRIS	1978-79		
REGION 4 DIRECTOR	BURKHARD SCHNEIDER	1978	CONTROLLER	TREASURER
REGION 5 DIRECTOR	DARRELL VINES	1978-79		
REGION 6 DIRECTOR	JOHN W. THATCHER	1978		
DIVISION II DIRECTOR	DONALD S. BRERETON	1978		
DIVISION VI DIRECTOR	RICHARD GOWEN	1978		EMPLOYER COOP. IN CAREER DEVELOPMENT, MANPOWER, LONG RANGE PLAN. FOR ENGR. PROF.
DIVISION VII DIRECTOR	WALTER F. FEE	1978-79		* LIAISON TO IEEE ENERGY COMMITTEE
USAB MEMBER-AT-LARGE	RICHARD BENOIT	1978	AWARDS	* LIAISON TO IEEE AWARDS BOARD
USAB MEMBER-AT-LARGE	ROBERT COTELLESA	1978	VICE CHAIRMAN	SERVICE CONTRACTS, ETHICS, REGISTRATION, INCREASING RESPONSE FOR ENGR. IN SOCIETY
USAB MEMBER-AT-LARGE	HERBERT H. HELLER	1978	INTERNAL COMMUNICATIONS	PAC, * LIAISON TO IEEE PUBLICATIONS BOARD
USAB MEMBER-AT-LARGE	ESTHER O. MAYFIELD	1978-79		PENSIONS, EMPLOYMENT GUIDELINES, DISCRIM. AGAINST ENGRS. OVER 40, PROF. OPPORTUNITIES FOR WOMEN
USAB MEMBER-AT-LARGE	ALVIN A. READ	1978-79		
USAB MEMBER-AT-LARGE	ARTHUR ROSSOFF	1978-79	EXTERNAL COMMUNICATIONS	* LIAISON TO IEEE PUBLIC RELATIONS COMMITTEE

UNITED STATES ACTIVITIES BOARD - 1978 - TASK FORCES

BOARD COORDINATOR	TASK FORCE ON	TASK FORCE LEADER	LIAISON TO
---	ADVISER TO USAB ON SOCIO-ECONOMIC ISSUES	HANS CHERNEY	
BENOIT	AWARDS	RICHARD BENOIT	
COTELLESA	---	HANS CHERNEY CO-CHAIRMAN	CAREER DEVELOPMENT (JOINT EAB/USAB COMMITTEE)
WEINSCHL	CONGRESSIONAL FELLOWS	RICHARD BACKE	
MAYFIELD	DISCRIMINATION AGAINST ENGINEERS OVER 40	HANS CHERNEY	
COTELLESA	---	LINDON SALINE	FROM USAB TO EAB
GOWEN	EMPLOYER COOPERATION IN CAREER DEVELOPMENT	MARLIN P. RISTENBATT	
COTELLESA	ETHICS	JIM FAIRMAN	
COTELLESA	INCREASING RESPONSIBILITY OF ENGINEERS IN SOCIETY	HANS CHERNEY	
HELLER	INTERNAL COMMUNICATIONS	HERBERT H. HELLER	
WEINSCHL	INTERSOCIETY LEGISLATIVE ADVISORY SERVICE (FEDERAL)	JOHN GUARRERA	
WEINSCHL	INTERSOCIETY LEGISLATIVE ADVISORY SERVICE (STATES)	GERALD M. GOLDENSTERN	
GOWEN	LONG RANGE PLANNING FOR THE ENGINEERING PROFESSION	RICHARD GOWEN	
GOWEN	MANPOWER	ROBERT A. RIVERS	
HELLER	PAC CHAIRMAN	HANS CHERNEY	
WEINSCHL	PATENTS	HOWARD L. ROSE	
MAYFIELD	PENSIONS	LEO YOUNG	FROM USAB PENSION TASK FORCE TO ESJCP
MAYFIELD	PROFESSIONAL OPPORTUNITIES FOR WOMEN	THELMA ESTRIN	
COTELLESA	REGISTRATION	JOEL B. SNYDER	
COTELLESA		JOEL B. SNYDER	IEEE COMMITTEE ON REGISTRATION
COTELLESA	SERVICE CONTRACTS	JOHN L. ALEXANDER	
SCHNEIDER	TREASURER	E. JACK DOYLE	
WEINSCHL	US R&D IN ELECTRONICS	SAMUEL J. RAFF	
BRERETON	---	DONALD S. BRERETON	FROM USAB TO TAB
COTELLESA	---	JOEL B. SNYDER	FROM IEEE TO NCEE



IEEE

Contact: E. K. Gannett

Publications Board

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10/14/77

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In connection with its publishing activities, it is the policy of the IEEE to own the copyrights in its technical publications, and to the contributions contained therein, in order to protect the interests of the IEEE, its authors and their employers, and at the same time to facilitate the appropriate re-use of this material by others.

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Part B of the form is to be used instead of Part A only if all authors are U.S. Government employees and prepared the paper as part of their job.

Thank you for your prompt cooperation.

10/14/77

ELECTRO/78 PROFESSIONAL PROGRAM

MAY 23, 1978 TUESDAY		MAY 24, 1978 WEDNESDAY		MAY 25, 1978 THURSDAY	
10:00 a.m.	2:00 p.m.	10:00 a.m.	2:00 p.m.	10:00 a.m.	2:00 p.m.
Looking Ahead at High Density Packaging ORG: Stanley Stuhlbarg Hughes Aircraft	Engineering Management Tools for Improved Effectiveness ORG: Palo Pierce USAF/Air Force	ABC's of Financing a Growing High Technology Business ORG: Steven Stadler GenRad	Professional Concerns for Today's Engineer ORG: William Wilkes IEEE	Upward Mobility & Career Development for Women Engineers ORG: Thelma Estrin University of CA	Latest Techniques and Design for Solid State Communications ORG: Lewis McCoy ARRL
Software: The Key to Using Microprocessors ORG: Max Schlinder Electronic Design	Small Package/ Large Performance: 16 Bit Microcomputer ORG: Joseph Austin Digital Equip. Co.	Microprocessor Applications in NASA ORG: Fred Lesh Jet Propulsion	Examining Single Chip up Products ORG: V.K. Huang Bell Labs, Holmdel	Microprocessors as Manufacturing Support Tools ORG: John Trombley Hewlett-Packard	Minis & Micros: Convergence on the Same Market ORG: Bryan Knox Mostek
Testing up-Based Products ORG: Jack Holland Inforex	Using ATE More Effectively ORG: Dick Stein Comp. Automation	A Corporate Commitment to Service: Before You Build It, Service It ORG: Maury Floathe Tektronix	Computer Applications in Public Utility Control Centers ORG: Kjell Carlson U.S. Dept. Energy	New Generation Memories: Greater Speed or Higher Density ORG: Sam Young Mostek	Energy Saving Through Infrared Technology ORG: Riccardo Vanzetti Vanzetti Infrared
Bridging the Analog-To-Digital Gap ORG: Robert Morrison Burr-Brown Res.	up Interfacing: Today & Tomorrow ORG: Narpat Bhandari Signetics	The Home Computer & Its Peripherals: A Look into the Future ORG: Clark Johnson Micro Communicat.	up Applications in Instrumentation. How Smart Is Smart? ORG: Henry Hall GenRad	Advances in Radar Technology ORG: Herbert Weiss Lincoln Labs MIT	Civilian Applications of Radar ORG: Herbert Weiss Lincoln Labs MIT
Recent Advances in Computer Aids to Circuit Design ORG: John Golembeski Bell Labs, Holmdel	Computer Aided Test Design for Analog Circuits ORG: Fred Liguori Naval Air Eng'g.	Automated Microwave Measurements ORG: Richard Laton Lincoln Labs MIT	Computer Graphics: From False Start to Boom ORG: Ed Torero Spectrum-IEEE	Optically Guided Wave Transmission Systems ORG: R. Lworak GTE Labs	Industrial Applications of Optical Communications ORG: David Medved Meret
Searching for Future Electronics Applications ORG: Thomas Jones M.I.T.	Memories for a Low Cost Computer System ORG: Dick Morris Digital Equip. Co.	Logic Measurement & Development Products ORG: Bill Furlow Tektronix	Energy: Crises & Challenges ORG: Richard Quinzanni Boston Edison Co.	Technology for Non-Invasive Monitoring of Physiological Phenomena ORG: Ronald Porter Analogic	
SPECIAL EVENING SESSION 8:00 p.m. The Human Energy Field: A New Beach-Head for Scientific Discovery Dr. Richard Dobrin Scientific Consultant					



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FOR ADDITIONAL INFORMATION CONTACT VINCENT J. GIARDINA
445 HOES LANE, PISCATAWAY, NEW JERSEY 08854

3-DAY MICROPROCESSOR COURSE WITH "TAKE HOME" MICROPROCESSOR AND POWER SUPPLY

Interest is high among our Section and Chapter leaders for this all new-three Day Microprocessor Course that features a "take home" MEK6800D2 Motorola Microprocessor plus power supply. Dr William Eccles, originator and lecturer, describes it as a "total immersion," intensive hands on program commencing at 8:30 a.m. until 8:00 p.m. on the first two days. Class activity on the third day will be scheduled until 4:30 p.m. to allow participants time to return to their individual homes.

The new course is designed for the practicing engineer who needs to learn microprocessor systems and programming, engineering manager responsible for overseeing development of microprocessor-based systems and all those who want to better understand microprocessor technology. In addition it will assist programmers who want to learn how to program a microprocessor.

Each registrant will receive his/her own Motorola MEK6800D2 Microprocessor, pre-assembled and tested. In addition, an individual Power Supply unit will be included.

The kit will be used for all experimental work during the course and taken home at the completion of the Workshop. Laboratories are based on this Motorola unit and include additional "outrigger" boards which contain devices for numerous programming exercises. These include simple input via keyboard, output on LED's and on seven-segment display, traffic-signal control, timing, clock operation, data acquisition, analog processing, chip diagnosis, music output, and much more.

Dr William Eccles assisted by Mr. Howard Eisenstein introduced this all-new program at Washington, D.C. on December 8, through 10, 1977. "Interest ran high and we needed a spill-over date" stated co-chairpersons Paul Willis and Robert Bishop, Jr. of the IEEE Washington Section. Class sizes are limited to 50 and already registrations have been received to fill the spillover date of March 16-18, 1978. A third date of June 22-24, 1978 has been set to handle the crowds.

We invite all our Section or Chapter leaders to call Vincent Giardina at (201) 981-0060 ext. 174 no later than May, 1978 if you are considering a Fall 1978 session for your unit. We caution you again that a full five-month lead period is necessary to satisfy all pre-course arrangements and promotion.

VINCENT J. GIARDINA
IEEE, EDUCATION
445 Hoes Lane
Piscataway, NJ 08854

Dear Vince:

I am interested in the

(Course Title)

I'd like to program an education activity for this Fall but I need your Catalog first.

Please call me. I'm interested in scheduling the 3-Day Microprocessor Course in my area.

NAME _____

ADDRESS _____

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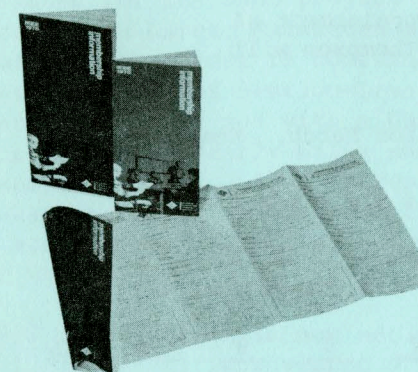
(Please return your completed form to me at the above address)

EE1



Membership Development Committee

Contact: Mark M. Lucas



1978 MEMBERSHIP BROCHURES NOW AVAILABLE

Revised and expanded 1978 editions of the Membership Information brochure are now available for your use. Personal sample copies of the detailed (F69, blue) and brief (F81, red) versions have been sent under separate cover to "EE" readers for familiarization. You are encouraged to review these revised brochures, since they represent one of our primary tools

for informing and enrolling new members. The two brochures should be used as follows:

The BLUE (F69) version is intended primarily for prospective members not familiar with IEEE. It contains four complete application forms, encouraging pass-along readership use and enrollments. Detailed Group/Society information is included.

The RED (F81) version is intended primarily for prospective members who are familiar with IEEE. It contains one complete application form and a listing of Group/Society options.

Membership officers should determine their immediate needs for both versions and forward requests to this office. Upon receipt of the 1978 Membership Information brochures, please destroy any 1977 leftovers.

FEEDBACK APPRECIATED

The report to Sections on monthly membership changes (Pink Change Sheets) has been reprogrammed to provide better information from which Sections may take action.

New elections, reinstatements, transfers in grade and relocations into the Section are Good News.

Resignations and arrears are Bad News.

ALL REQUIRE ACTION!

THINK PINK!

(OVER)

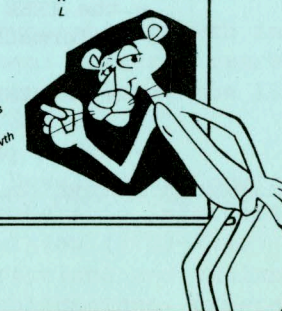
PROF. PINK'S MEMBERSHIP SEMINAR

REASON CODE ACTION SIGNALS:

Good News
A
B
E
H

Bad News
K
L

React Quickly to Retain Members and Realize Growth



1978 MEMBERSHIP DEVELOPMENT COMMITTEE PLANNING FIRST MEETING

With only a few representatives still to be appointed, the 1978 Membership Development (MD) Committee is considering the location, date and agenda for its first 1978 meeting.

Paul F. Carroll, RAB Vice President, has announced the appointment of David C. McLaren as the MD Committee Chairman. K. Reed Thompson will serve as Vice Chairman.

A first meeting of the 1978 MD Committee is anticipated for March. Members of the committee will select the final date and site.

#####

ENCOURAGING STATISTICS: (KEEP IT UP!)

REGIONAL MEMBERSHIP GROWTH 1975-76 vs. 1976-77 % Change + or (-)												
REGION	1	2	3	4	5	6	1-6	7	8	9	10	ALL
1976-77	NC	0.1	3.7	2.5	4.1	2.3	1.9	7.6	4.9	6.2	14.3	2.4
1975-76	(3.6)	(2.6)	(0.1)	(0.3)	0.6	(1.0)	(1.6)	0.6	4.8	4.7	13.8	(0.6)

NEW SYSTEM FOR ORDERING MEMBERSHIP MATERIALS FOR USE AT LOCAL, REGIONAL AND NATIONAL CONFERENCES

IEEE's MD and Conference Coordination departments are implementing a new system to provide Membership materials for IEEE sponsored and co-sponsored conferences. Conference Managers should contact the Conference Coordination Department for basic information and an order form. The completed form (B95) is to be returned to Membership Development. Appropriate Membership materials will be forwarded based on estimated attendance. Every conference, meeting or gathering should have an IEEE Membership Chairman to provide membership information and promote membership.

NOTE: A minimum lead time (4 weeks in North America; 8 weeks overseas) is requested to ensure delivery.

Although no formal feedback procedure has yet been established, the MD Committee would appreciate your comments on the success of your efforts and the helpfulness of materials provided.

#####

COMING SOON FROM MEMBERSHIP DEVELOPMENT . . .

- the IEEE INFORMATION CENTER, a multipurpose literature, information and communication tool.
- a regular MD mailing program, to keep MD officers a step ahead.
- Ideas, programs and information for IEEE growth.

(For MD ACTION, contact Mark M. Lucas, NY Headquarters, (212) 644-8080)

limits) until such time that he/she becomes vested in a pension plan.

The sessions highlighted advances in the IEEE proposal over previous legislative efforts, and also recognized some potential problems that must be addressed before the legislation is introduced.

Career stability is the focus of a two-pronged USAB effort to implement the goals established for the USAB project on Employer Cooperation in Career Maintenance and Development. The effort is concerned with the establishment of Section-level Employer Advisory Committees and with a Career Maintenance Survey currently being sent to 15-20 companies in the United States to ascertain what engineers and engineering managers think are the most important aspects of Career Maintenance.

The 1978 USAB Program is now set. Program goals include: (1) improvement of the economic environment; (2) enhancement of the development of U.S. technological policy; (3) improvement of the image and status of the electrical engineering profession; (4) improvement of career conditions and opportunities; (5) improvement of internal communication; (6) improvement of the Governmental interface; and ancillary activities such as employment assistance and work on Employment Guidelines. Goal 2 is new in 1978, and emphasizes programs enhancing the technological policy of the U.S.; it reflects the concerns of the IEEE Board of Directors and the IEEE membership, as expressed in a recent Institute-wide survey.

See USAB insert for listings of 1978 USAB Board and Task Force leaders.

PUB NEWS

The new 1977 IEEE Membership Directory has been mailed to those who ordered it. The directory is now in stock at IEEE's Service Center in Piscataway, N.J., and IEEE organizational units can obtain copies at the member price of \$15 per copy by placing their orders via the appropriate Headquarters contact for their area.

A new Copyright Law is in effect. Authors (or their employers) are now required to sign the IEEE Copyright Transfer Form (see photo-reduced version -- insert) before their papers can be accepted and published by IEEE. The forms are obtainable from each journal editor or conference committee publications official. Your help is solicited in clarifying to the powers that be in your organization that the IEEE form

is not to be substituted for a company or other form. Points to note: 1. Organizations deal with relatively few publishers; publishers deal with thousands of organizations. 2. The publisher must continue to coordinate requests for third-party reprint/publication permissions and cannot be bound by thousands of intricate exceptions, special arrangements or commitments to redistribute the huge volume of such requests that are now routinely handled. 3. Special requests (see form) will continue to be contingent on author/employer approval. 4. The IEEE transfer form provides the author/employer with more automatic rights than ever were specified by the old law or past IEEE procedures. (For further information, contact Patricia Penick, [212] 644-7550.)

STANDARDS NEWS

The second edition of the IEEE Standard Dictionary of Electrical and Electronics Terms has just been published. Five years in the making, this revised and expanded 1977 edition contains 20,254 entries, over 7,000 of which are new and revised terms, and a new Acronym Section that lists more than 10,000 acronyms.

A special introductory price of \$24.95 (IEEE members: \$22.45) will be in effect for all orders submitted to IEEE on or before June 30, 1978. Thereafter, the price of the IEEE Standard Dictionary will be \$37.50 (IEEE members: \$33.75).

Copies are now available from the IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854 (an additional \$2.00 shipping/handling charge must accompany each order submitted through IEEE); Wiley-Interscience, a division of John Wiley & Sons, Inc.; and technical bookstores.

RAB NEWS

IEEE membership has reached an all-time high according to year-end statistics. Total membership, including higher grade and Student members, exceeded 183,000, as of January 1978. The previous record, at year-end 1975, was 179,835.

The Institute's membership growth in 1977, nearly 4,400 additional members, represents an increase of 2.4 percent over the 1976 year-end count of 178,616.

The IEEE Membership Development Committee has published two new membership information pamphlets. The long version (#F69-Blue) contains detailed descriptions and explanations of IEEE services, publications, programs, and organizational units. The short version (#F81-Red) contains a brief recapitulation

of the above matters.

Supplies of these brochures are available now from IEEE Headquarters.

All Sections are reminded of the Annual Meeting Reports and Financial Statements that are compiled on the basis of year-end data. To ensure rebate credit, the reports and statements were due at Headquarters not later than February 1, 1978. Also, names of all new officers and committee chairmen taking office in January should be reported to the Field Services Department promptly.

STUDENT NEWS

A total of 19 student projects were funded in the 1977 Bendix Awards competition. In response to the overwhelming number of entries, the Life Member Fund of the IEEE contributed to the 1977-78 program, which allowed the nine runner-up positions to be partially funded. This year's grant total is more than triple that of two years ago.

The winners for 1977-78 are: Old Dominion University, Southern Illinois University-Edwardsville, Tulane University, Universite Catholique de Louvain, University of Kansas, University of Michigan, University of Pennsylvania/Temple University, University of Tennessee, Virginia Polytechnic Institute and State University, and Western Kentucky.

The runners-up are: Cooper Union, Drexel University, Indian Institute of Technology, Katholieke Universiteit Leuven, Northern Arizona University, San Francisco State University, Southeastern Massachusetts University, State University of New York-Canton, and Trenton State College.

The annual Student Papers Contests within the Regions will begin in spring; Branch, Section and Area contests should be organized soon and held during the winter months. For further information on the Student Papers Contest, contact Regional Student Activities Committee Chairmen.

AWARDS REMINDER

Nominations for IEEE Field Awards are due April 1, 1978; for Major Medals the due date is June 1, 1978. Recognition should be given for outstanding accomplishments and your action in nominating qualified candidates is needed. Contact Una B. Lennon for forms.

EAB NEWS

New microprocessor technology is the subject of a three-day intensive "hands on" programming workshop recently added to the IEEE Educational Activities Board's roster of short courses. The first workshop, held in cooperation with the Northern Virginia and Washington (D.C.) Sections December 8-10, 1977, in Arlington, Va., attracted 54 attendees from several states.

The workshop is based on the Motorola M6800 Evaluation Kit II. Experiments utilize numerous circuit boards called "Outriggers" which carry relatively simple TTL (transistor-transistor logic) circuits. These include a board with a hex keypad, another with an eight-digit, seven-segment display, boards with various other displays, including one for digital analog control, and a music keyboard.

The workshop was recently developed by William Eccles, associate professor of computer sciences at the University of South Carolina. The emphasis throughout this workshop is "total immersion," which enables the participant to acquire a basic knowledge of microprocessor technology in a very short time.

The following workshops have been scheduled for 1978: Houston Section--March 2-4; Northern Virginia and Washington Sections--March 16-18; West Virginia Section--March 23-25; Tennessee State University--April 6-8; University of Alabama--April 20-22; Princeton Section--May 18-20; Vermont Section--May 25-27; Northern Virginia and Washington Sections--June 22-24.

For information, phone Vincent J. Giardina or Lorraine Castiglia (201) 981-0060.

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