

OCT 15 1976

Field Services

NUMBER

66

ELECTRICAL ENGINEERING®

BOARD MOVES TO DEFER EXPENDITURES

DURING FIRST QUARTER OF 1977; SEES BALANCED BUDGET FOR '77 WITHOUT INCREASE IN DUES

A no-surplus, no-deficit 1977 budget has been approved by IEEE's Board of Directors following recommendations made by the Executive Committee. The Board's action came at a special September 23 meeting held at Headquarters.

Of many substantive decisions taken by the Board during its deliberations, none had more important implications to the member--and to staff--than the BoD's determination to avoid a 1977 deficit. Coming on the heels of the Board's earlier resolution not to increase the basic Institute dues levels, this decision portends another year of tough economizing in already lean Institute operations. The effects of inflation are to be offset primarily by increased revenues in publishing (advertising and single-copy sales), educational services (short courses), and administrative services (data processing and membership list sales). Any unforeseen shortfalls--or unexpected costs--are to be offset by deferring \$500,000 in expenditure commitments during the first two quarters of next year. This represents an Executive Committee plan, to be administered by General Manager H. A. Schulke, Jr., that would hold expenditures to 90% of the annual rate until April 1, 1977, by which time it is felt that the Executive Committee will have a better idea of the state of the Institute's finances--especially income. One question yet to be resolved is: What, specifically, can be deferred with minimal effect on either member programs or staff operations?

As noted, the Board also acted on several other matters of interest to EE readers. Some of these included:

- Modifications in the dues levels of special membership categories.
- Adoption of two policy statements on ethics.
- Action on an Engineers Joint Council invitation to IEEE to rejoin that body.

On the dues question, the Board approved \$2 increases--from \$8 to \$10--in Student, military, and retired member assessments.

It further agreed to assess Affiliates and first-year graduates \$20, as compared to \$18 this year. In the U.S. and Canada, second-year graduates will pay \$30 in 1977 (\$35 in '76), while such members in Regions 8-10 will be billed \$25 (\$30 in their third year following graduation). These measures are designed to decrease the subsidies IEEE affords such members without creating undue hardships or sacrificing incentives.

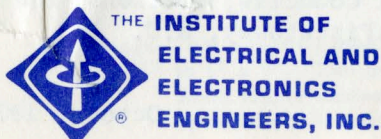
The ethics policy statements approved by the Board were initiated by USAB. Wishing to put teeth into the Code of Ethics, USAB Vice President James Mulligan proposed that: (1) infractions of the Code be subject to disciplinary action by the BoD; and (2) members placed in jeopardy by adhering to the Code may be offered BoD assistance. Passage of these proposed policy statements creates a mechanism the Board can make use of in the future.

Lastly, on the subject of EJC's invitation, both the Executive Committee and the Board as a whole decided to decline for the time being. IEEE withdrew from EJC in 1967, feeling its voice on the Council's Board was not sufficiently influential. EJC had recently agreed to amend its constitution to afford the Founder Societies greater control of the Council's activities. But along with this apparent effort to meet IEEE's objections, the newly extended invitation to membership carried with it a \$40,000 price tag.

WHAT TO WATCH OUT FOR

Unresolved issues that should come before the Board in December include:

- TAB's proposals to create a seventh Technical Division--namely, a Power Division--and a BoD seat for Standards.
- BoD action on the Long Range Planning Committee and TAB IEEE Organization Reports.
- ExCom's investigative report on alleged violations of electioneering policy.
- Possible Bylaw change permitting censure or expulsion of members for misconduct.



A management newsletter on IEEE operations . . . to encourage communication among all organizational entities and the staff . . . **ELECTRICAL ENGINEERING** is published bimonthly by IEEE, 345 East 47 Street, New York, N.Y. 10017

STANDARDS NEWS

A new ATIAS: On 9 September the IEEE Standards Board approved the IEEE/ARINC Standard ATIAS Test Language (IEEE Std 416-1976). ATIAS (Abbreviated Test Language for All Systems) is a standardized language for expressing test specifications and procedures. It provides a standard abbreviated English language used in the preparation and documentation of test procedures which can be implemented either manually or with automatic or semi-automatic equipment. ATIAS is expected to complement the growing stable of IEEE Instrumentation system standards, as the software counterpart.

Executive Director H. A. Schulke, Jr., represented the Institute in arranging for the transfer of ATIAS to IEEE jurisdiction at meetings held in Munich this September. As part of the close cooperative effort among ARINC, AEEC, and IEEE in publishing this urgently needed ATIAS format, the IEEE has expedited publication procedures and will make the new document available this November.

The IEEE 1976 Standards Catalog is now available, free of charge, from the Standards office at Headquarters. It lists over 350 standards publications in numerical sequence, and provides a subject index to the standards.

CALL FOR NOMINATIONS

Candidate nominations are solicited for the elective offices of President and Executive Vice-President for 1978. The deadline for receipt of recommendations is January 1, 1977. Recommendations are also solicited for appointments to the following Standing Committees and Boards for 1978: Awards Board, Admission and Advancement Committee, Educational Activities Board, Fellow Committee, History Committee, Intersociety Relations Committee, Life Member Fund Committee, Long Range Planning Committee, Membership Development Committee, Nominations and Appointments Committee, Public Relations Committee, Publications Board, Tellers Committee. The composition and responsibilities of these Committees and Boards are described in the IEEE Bylaws. April 1, 1977, is the deadline date for receipt of these recommendations. Forms may be obtained from the

Profile:

J. H. Mulligan, Jr.

IEEE's 1976 Vice President of Professional Activities is James C. Mulligan, Jr. A Fellow of the Institute, Dr. Mulligan has served as President, Vice President, and Vice President for Technical Activities, and as Chairman and member of numerous IEEE Committees and Boards. He is now Dean of the School of Engineering and Professor of Electrical Engineering at the University of California, Irvine, and serves as Secretary of the National Academy of Engineering. Dr. Mulligan holds the B.E.E. and E.E. degrees from the Cooper Union School of Engineering, the M.S. in Electrical Engineering from Stevens Institute of Technology, and the Ph.D. from Columbia University. He has worked at Bell Telephone Laboratories, and with the Combined Research Group of the Naval Research Laboratory. After World War II, he joined Allen D. Dumont Laboratories, eventually to become chief engineer of the television transmitter division. Dr. Mulligan has also been a faculty member and Chairman of the Department of Electrical Engineering at New York University.

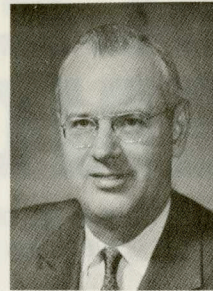


PHOTO: KACHACH

This is the last in a series of profiles of IEEE officers.

Secretary of the Nominations and Appointments Committee at Headquarters.

New Fellow nomination kits for 1978 are now available upon request to the Staff Secretary of the Fellow Committee at Headquarters. The kits include detailed guidelines to assist the nominator in the effective preparation of the nomination form. Nominators are urged to read the instructions carefully and to note the deadline dates.

All organizational units are encouraged to submit nominations of candidates considered qualified for elevation to the Fellow grade. There is an Order Form on page 2E of this issue.

E.E. 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.



MAILING LISTS. Mailing lists addressed to IEEE members can be furnished by:

IEEE Regions, IEEE Sections, IEEE Subsections, Chapters of IEEE Groups and Societies, IEEE Groups and Societies and Technical interest profiles.

USE OF MAILING LISTS. Each request for a membership list, in any form, shall be accompanied by a statement as to the purpose for which the list will be used.

LEAD TIME. Please allow three weeks to schedule production of your request for a mailing list; allow up to eight weeks for preparation of rosters.

AUTOMATIC PREPARATION OF MONTHLY LISTS IEEE organizational units having regular monthly meetings or monthly publications are encouraged to enter a standing order to receive automatic shipments of addressed labels on a specified day of each month. (Uniform mailing date required for each monthly shipment).

MATERIALS ADDRESSED:		COST PER NAME*
Labels:	3-1/2" ungummed Cheshire flat strip lists, 4 names across	\$.022
	3-1/2" perforated gummed flat striplist, 4 names across	.022
	3-1/2" Avery labels (self-adhesive), 4 names across	.024
Rosters:	A. Alphabetical list, 4 names across	.024
	B. List by membership grade, 4 names across	.024
	C. List by company affiliation, one name across	.033
	(Cost of multiple copies of above lists furnished on request.)	
		COST PER THOUSAND*
Paper:	8-1/2 x 11 Plaza Offset	\$4.50
	8-1/2 x 11 Multilith Plaza Offset Emblem	8.00
	8-1/2 x 11 Mead Cockle - Letterhead	12.00
Postcards:	Single, Government stamped	At Cost
	Double, reply, Government stamped	At Cost
	Single, unstamped	\$6.00
	Double, unstamped	12.00
Envelopes:	G-18 IEEE Return envelope (8 3/4 x 4) Postage Paid (Permit #1332)	14.50
	G-20 First Class #10 with IEEE logo and address	12.00
	G-23 First Class #10 with IEEE logo (no address)	12.00
	G-27 Government Stamped #10 with IEEE logo and address	5.00 + postage
	K-2 10 1/2 x 7 1/2 gummed flap and clasp with IEEE logo and address	34.00
	K-3 9 x 12 gummed flap and clasp with IEEE logo and address	36.00
	K-7 9 1/2 x 12 1/4 gummed flap and clasp with IEEE logo and address	40.00
	K-10 10 x 13 gummed flap and clasp with IEEE logo and address	43.50

* Plus postage charges for shipment of addressed material for handling and mailing locally.

The following additional charges apply on requests involving IEEE printing and mailing services:

Printing:	Labor - including collating, stapling and folding	\$10.80/hour
	Paper - 20# bond 8 1/2 x 11	4.50/thousand
	Paper - Fine Finish for Letterhead	8.00

Mailing: The following charges apply for Avery labels (manually affixed) and Cheshire labels (in excess of 1,000 names using automatic equipment):

	Manual	Automatic
Affixing labels	\$7.70/hour	\$8.00/thousand
Inserting and mailing	7.70/hour	8.00/thousand
Sorting, Tying, Sacking	7.70/hour	

Sorting: All second and third class nonprofit mail must be sorted manually into five groups (Post Office regulations) and is therefore subject to the hourly rate: \$7.70/hour

Inserting: The inserting machine will accept envelopes ranging in size from 3-1/4" x 6" to 6" x 9". The paper must be 20# stock or better. Maximum inserts - 6. Each single enclosure to be at least 3" x 5" but smaller than 6" x 9". Other inserting jobs handled manually at the \$7.70 per hour rate.



WHOM TO CALL FOR ACTION AT IEEE

Member Concern	Headquarters Contact	"Hot-Line" phone #	Member Concern	Headquarters Contact	"Hot-Line" phone #
HEADQUARTERS 345 East 47 St., New York, N.Y. 10017			(212) 644-ext.		
President's office	Patricia Darmstadt	644-7908	Proceedings of the IEEE	Reed Crone	7557
General Manager's Office (questions regarding overall Institute policy only.)	Herbert A. Schulke, Jr. General Manager Patricia Darmstadt Administrative Assistant Carol Gershowitz Secretary	7910 7908 7908	IEEE Press Conference publication production Newsletter production Annals/Indexing Reprint permission General Information	Reed Crone Eleanor Maul Stephanie Wolfson Kaarin Kolbre Patricia Penick Patricia Penick	7557 7580 7576 7765 7550 7550
Corporate Support	Charles Stewart, Jr. Senior Staff Director Emily Sirjane Manager Una Lennon	7769 7757 7882	Technical activities (overall policy only)	Richard Emberson Staff Director Esmi Bidstrup	7863 7868
Awards nominations (forms and processing)	Emily Sirjane	7757	Group and Society financial matters	Mel Bonaviso	7891
Nominations for fellow grade (forms and processing)	Dolores Riker	7750	Power Engineering Society papers to be submitted	Carolyn Karpinski	7893
Nominations and appointments	Emily Sirjane Veronica Lewis	7757 7758	Special committees (Technical comm. including Energy, CSIT, COMAR, TF&A, EQC, and OEC)	Joan Breslin	7887
IEEE Public Relations	Eugene Kone	7867	Conference Services	Joe Casey Edward McDonald	7861 7895
Support of Other Orgs.	Audrey Van Dort	7896	Standards	Ivan Easton	7960
Publications activities (For orders and subscriptions, see Service Center, Member Services.)			Field Activities (overall policy only)	Robert Asdal Director	7759 7756
IEEE Spectrum (overall policy only)	Donald Christiansen Editor	7556	Orders for Section, Subsection, and Chapter mailing lists	Mildred Smith	7751
- to submit articles	Ronald K. Jurgen	7554	General services for Sections, Subsections, and Chapters	Elizabeth Escala	7751
- Advertising	William Saunders	7767	Student Activities	Judith Rundle	7826
- News	Evelyn Tucker	7568	Educational Activities	John Wilhelm	7871
Electrical Engineering	Ellis Rubinstein	7589			
Publication policy (other than Spectrum)	Woody Gannett Staff Director	7548			
Transactions	James Carter	7559			
Production					
SERVICE CENTER 445 Hoes Lane, Piscataway, N.J. 08854			(201) 981-0060		
Member Services	Raymond Mendolia Director	ext. 118	WASHINGTON OFFICE 2029 K St., N.W., Washington, D.C. 20006		
Processing of new member applications			(202) 785-0017 except where noted		
Processing of applications for transfers in member grade	Roseann Schulz	ext. 131 or 132	Professional Activities (overall policy only)	John Kinn Chief Program Manager	
Dues questions			Current status of professional programs	Dorothy Bomberger	
Changes of address			Future professional programs and plans	Leo Fanning	
Missing publications			Engineering manpower data	Dorothy Bomberger	
Accessory items - ties, pins, binders			Code of Ethics	Leo Fanning	
member certificates			Employment-Guidelines Assistance	Leo Fanning	
Orders of single copies of publications	Alice LeClair	ext. 135	Government relations	Leonard Farrell	
Non-member subscriptions	Regina Giardina	ext. 134	- Federal	Charles Amend (213) 993-1501	
Continuing education - short courses	Vincent Giardina	ext. 174	- State		
Region and Section finances	Michael Sosa	ext. 123	OTHER MEMBER SERVICES		
INSPEC	Cathy Ferrere	ext. 122	Portable benefits		
Marketing	Frank Timmons Senior Manager	ext. 127	Life and health insurance	IEEE Insurance Administrator (201) 296-8030	
			Pension coverage - annuity benefits	or (212) 757-9040	
			Keogh plan	Continental Bank of Illinois (312) 828-3631	

HELP:

For general information, not covered above, call Kathy Moore (212) 644-7900



ORDER FORM

IEEE FELLOW NOMINATION KITS

Staff Secretary, Fellow Committee
The Institute of Electrical and
Electronics Engineers, Inc.
345 East 47 Street
New York, New York 10017

Please mail IEEE Fellow Nomination Kits.

Ship to: (Please print)

Name

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Zip code

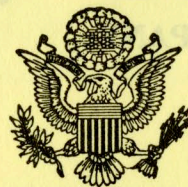
Date

Your Signature

Table with columns: Member Name, Address, Phone, and various IEEE-related details. Includes sections for Washington Office, Service Center, and Other Member Services.



TECHNICAL ACTIVITIES BOARD



United States
of America

Congressional Record

PROCEEDINGS AND DEBATES OF THE 94th CONGRESS, SECOND SESSION

Vol. 122

WASHINGTON, WEDNESDAY, SEPTEMBER 1, 1976

No. 131

LEGISLATION TO AMEND SERVICE CONTRACT ACT OF 1965 TO PROTECT PROFESSIONAL EMPLOYEES

The SPEAKER pro tempore. Under a previous order of the House, the gentleman from California (Mr. CORMAN) is recognized for 5 minutes.

Mr. CORMAN. Mr. Speaker, I am pleased to announce that the distinguished chairman of the House Education and Labor Subcommittee on Labor-Management Relations, Mr. THOMPSON and I have introduced legislation to amend the Service Contract Act of 1965 to extend protection to professional employees.

The impetus for this legislation originated during hearings conducted by the Education and Labor Committee into the tragic "wage busting" situation at Cape Canaveral, Fla. The original focus of those hearings was the treatment of nonprofessional white-collar workers whose wages had been driven down by competitive bidding on Government service contracts. But in the course of those hearings, witnesses on behalf of the Institute of Electrical and Electronics Engineers, as well as other highly respected groups, made the strong case that the wage busting bidding practices which had previously wiped out the standard of living of blue-collar workers, and had more recently driven down the incomes of white-collar workers because of a Florida court decision excluding white-collar workers from service contract coverage, presented the identical problem with respect to professionals. One witness explained that "engineers with 10 to 12 years experience and a master degree are making less money than unionized nonprofessionals". This deplorable situation needs to be remedied.

My colleague, Mr. THOMPSON has made substantive progress to restore Service Contract Act protection to white-collar workers. This effort is a logical first step in bringing the Service Contract Act in line with its original legislative intent. Now, in light of the overwhelming evidence presented at recent hearings we need to give the professional a fair shake and extend coverage under the umbrella of the Service Contract Act.

The bill Congressman THOMPSON and I have introduced would extend the protections of the Service Contract Act to professionals, but in a very special way. First, it would define a "professional employee" for purposes of the act's coverage, to include any professional covered by the most recent U.S. Department of Labor national survey of professional, administrative, technical, and clerical pay, employed in a civilian job at a rate less than that received by Federal Government employees in grade 15 of the

general schedule. Second, the bill would provide that professionals whose services are comparable to those described in the national survey of professional, administrative, technical, and clerical pay receive not less than the prevailing rate described in the survey. Third, the measure would establish a successorship standard, so that a bidder succeeding to a previous contractor's agreement with the Government could not pay professional employees less than they earned under the predecessor's contract—the fundamental protection needed to prevent the wage busting practice which the Government itself has fostered through competitive bidding practices. And fourth, to the extent that salaries and fringe benefits for various classes of professional employees are not adequately described in the survey, the Department of Labor shall make the necessary determinations.

Mr. Speaker, this bill would in no way convert professionals into "clock punchers." It would set some floor, some decent standard of wage for professional engineers, artists, et cetera, regardless of locality. It would prevent skilled professionals from being financially undercut due to the Government's competitive bidding process. It would insure the dignity and integrity of the professional during these difficult economic times.

Within the next several days, we will circulate a "Dear Colleague" to enlist Members' support for this measure. I am optimistic that my colleagues will endorse this bill which I include for their consideration.

H.R. 15228

A bill to amend the Service Contract Act of 1965 to extend its coverage to professional employees

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That (a) section 2(a) of the Service Contract Act of 1965 (41 U.S.C. 351(a)) (hereinafter called the "Act") is amended by striking out ", as defined herein";

(b) Section 2(b) of the Act is amended by striking out "as defined herein".

Sec. 2. Section 2(a)(1) of the Act is amended by inserting immediately after "arm's-length negotiations" the following: "Provided, That with regard to professionals whose services are substantially the same as those described in the National Survey of Professional, Administrative, Technical and Clerical Pay, issued pursuant to section 5305 of title 5, United States Code, the prevailing rates for such employees in any locality shall not be less than the rate described in the National Survey of Professional, Administrative, Technical and Clerical Pay."

Sec. 3. Section 2(a)(2) of the Act is amended by inserting immediately after "arm's-length negotiations," the following: "Provided, That with regard to professionals whose services are substantially the same as those described in the National Survey of Professional, Administrative, Technical and

Clerical Pay, issued pursuant to section 5305 of title 5, United States Code, the prevailing rates for such employees in any locality shall not be less than the rate described in the National Survey of Professional, Administrative, Technical and Clerical Pay."

Sec. 4. Section 2(a)(5) of the act is amended by inserting immediately after "section 5341" the following: "or section 5332".

Sec. 5. Section 4(c) of the Act is amended by inserting immediately after "Sec. 4. (c)" the following: "(1)", and at the end of subsection 4(c) by adding the following new subparagraph.

"(ii) No contractor or subcontractor under a contract, which succeeds a contract subject to this Act and under which substantially the same services are furnished, shall pay any service employee under such contract less than the salaries and fringe benefits, including accrued salaries and fringe benefits, to which such service employee would have been entitled if he were employed under the predecessor contract."

Sec. 6. Section 8(b) of the Act is amended to read as follows:

"(b) The term service employee means any person engaged in the performance of a contract entered into by the United States and not exempt under section 7, whether negotiated or advertised, the principal purpose of which is to furnish services in the United States and shall include all such persons regardless of any contractual relationship that may be alleged to exist between a contractor or subcontractor and such persons, other than—

"(1) any person employed in a bona fide executive or administrative capacity (as defined in part 541 of title 29, Code of Federal Regulations, and any subsequent revision of those regulations; and

"(2) any person employed in a professional capacity (as defined in part 541 of title 29, Code of Federal Regulations, and any subsequent revision of those regulations) provided that such person is compensated at a rate not less than that received by Federal Government employees in grade 15, of the General Schedule as provided in section 5332 (a) of title 5, United States Code."

Sec. 7. Section 10 of the Act is amended by adding at the end thereof the following new section 11:

"Sec. 11. It is the intent of Congress that the determinations of minimum salaries and fringe benefits for the various classes of professional employees under the provisions of paragraphs (1) and (2) of section 2(a) shall conform with the most recent National Survey of Professional, Administrative, Technical and Clerical Pay issued by the United States Department of Labor and prepared by its Bureau of Labor Statistics. To the extent that such survey does not cover fringe benefits or does not cover average salaries in the United States for any class of professional employees, such determination should be made with respect to all contracts subject to this Act as soon as it is administratively feasible to do so. In any event, the Secretary shall make such determinations with respect to the contracts subject to this Act which are entered into during the applicable fiscal year described in section 10 hereof, no later than June 30, 1977."

(NOT PRINTED AT GOVERNMENT EXPENSE)

This announcement is neither an offer to sell nor a solicitation of an offer to buy any of these Securities nor shall there be any sale of these Securities in any State in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

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United States Activities Board

RESULTS OF AUGUST 1976 IEEE/USAB
SAMPLE SURVEY ON MEMBER OPINION TOWARD
IEEE'S ATTEMPTING TO REGULATE
QUALITY AND QUANTITY OF ENGINEERS

1(a) Do you favor IEEE's attempting to regulate the quality of electrical engineers?

304 or 33% NO 611 or 67% YES

1(b) If yes, how?

270 or 29% By promoting universal registration.

176 or 19% By certification of technical societies.

218 or 24% By validation of continuing education courses by the technical societies.

383 or 41% By promoting higher accreditation standards for engineering curricula.

131 or 14% By examination to become an IEEE member, at the "Member" level or above.

2(a) Do you favor IEEE's attempting to regulate the quantity of electrical engineers?

467 or 51% YES 441 or 49% NO

2(b) 191 or 21% By working more actively through IEEE's student branches to educate high school students about the career opportunities available through the engineering profession.

300 or 32% By raising the standards for accreditation of colleges teaching engineering.

120 or 13% By increasing the number of years of study for an initial engineering degree through the accreditation process.

279 or 30% By obtaining for publication, and/or distribution, manpower reports on supply vs. demand of engineers.

* Sample Size: Approx. 2500 *
* No. of Responses: 924 *
* Response Rate: 37% *

IEEE/USAB SAMPLE SURVEY
ON MEMBER OPINION TOWARD
IEEE'S ATTEMPTING TO REGULATE
QUALITY AND QUANTITY OF ENGINEERS

TO THE READER:

The survey questions printed below were recently sent to a randomly selected sample of about 2500 U.S. non-student IEEE members. We are interested in comparing the responses to the random survey with the responses of the elected Institute leadership, who all receive "Electrical Engineering."

Please take the time to complete the survey and return it today. If a third or more of you respond we will print the results and a comparison with the results of the random survey in the next issue of Electrical Engineering.

- 1(a) Do you favor IEEE's attempting to regulate the quality of electrical engineers?
- No. (Skip to 2) Yes. [Go to 1(b)]
- 1(b) If so, how?
- By promoting universal registration.
- By certification of technical competence by technical societies.
- By validation of continuing education courses by the technical societies.
- By promoting higher accreditation standards for engineering curricula.
- By examination to become an IEEE member, at the "member" level or above.
- 2(a) Do you favor IEEE's attempting to regulate the quantity of electrical engineers?
- Yes. [Go to 2(b)] No.
- 2(b) By working more actively through IEEE's student branches to educate high school students about the career opportunities available through the engineering profession.
- By raising the standards for accreditation of colleges teaching engineering.
- By increasing the number of years of study for an initial engineering degree through the accreditation process.
- By obtaining for publication, and/or distribution, manpower reports on supply vs. demand of engineers.

Please return to:

Dorothy Bomberger
IEEE/USAB
2029 K Street, N.W.
Washington, D.C. 20006

Continuing education services

NOW'S THE TIME TO PLAN FOR YOUR SPRING & FALL 1977 EDUCATION OFFERINGS

We can now offer two distinct types of course packages to assist you in planning your Spring and Fall 1977 Continuing Education program:

1 - **FULL-SERVICE PLAN** - the majority of pre-course activities will be completed by our Education staff with the following four assigned to your Section:

- establishing the course date
- arranging for physical facilities
- developing local promotion
- handling "D-day" registration.

Net surpluses developed will be divided as follows: 30% to the Educational Activities Board; 20% to the Group/Society which acts as the reviewing agent; 50% to your Section.

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

Select from the variety of courses listed below for your Spring session - March to June 1977 inclusive, and/or your Fall session - September to November 1977 inclusive. All we request is a 5-month lead period. We ask that you call now to either "book" your program or to arrange for us to help you with your member polling.

CAMAC - 1 Day

Microprocessors Seminar - 2 Days

Computer Aided Filter Design - 1 Day

Minicomputers - 2 Days

Microcomputers/Minicomputers - 1 Day

Infrared Testing - 2 Days

Communicate for Results - 1 Day

Converting Your Ideas into Profitable Business

The Life/Work Planning Process

Basic Project Management - Planning, Scheduling & Control - 3 Days

Power Systems-Relaying - 2 Days

Production and Grounding of Distribution Systems - 2 Days

Fundamentals of Applications of Protective Relays - 2 Days

Analysis and Development of EHV Transmission Lines - 2 Days

Introduction to Microprocessors - 1 Day

"Hands On" Five Day Microprocessor - 5 Days

Electronic Information Processing - 2 Days

Computer Networks - 1 Day

Integrated Circuits - 5 Days

Engineering Considerations for Microwave Communication Systems - 3 to 5 Days

How to Start a Business and Make It Grow - 1 Day

Managing Your Career Assets - 2 Day

Power Systems-Interconnections - 2 Days

Power Systems-Planning - 2 Days

Introduction to Solid State Power Electronics - 2 Days

Symmetrical Components & Applications in Power Systems Engineering - 2 Days

Transient Phenomena in Electric Power Systems - 2 Days



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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

FOUR SOUND POINTS TO ASSURE SUCCESS FOR YOUR EDUCATION PROGRAM

1. POLL YOUR MEMBERS BEFORE SELECTING THE COURSE.
Determining the exact need of your members in advance and matching this need from our list of courses can spell success.
2. APPOINT A DYNAMIC COORDINATOR.
An enthusiastic and dedicated coordinator is the key to the success of your program.
3. DEVELOP A SOUND LOCAL PROMOTION PROGRAM.
Course information publicized to prospects well in advance of the offering date will invariably supply highest enrollments.
4. PREPARE YOUR PHYSICAL FACILITIES WITH DETAILED CARE.
Be absolutely certain that even the little items necessary to the success of your offering are arranged for well in advance of the date. Remember — "For want of a nail...."

Perhaps "Training Magazine" (June 1976) says it best "If you want a certain level of performance, either ask for it or negotiate for it, but just don't say 'Do the best you can' and hope for the best. You won't get it."

Achievement of your educational goal is our principal objective. We're here to help you. Just call us at (201) 981-0060, Ext. 174 and we'll "put you on track."

WELCOME TO JOHN F. WILHELM

The Continuing Education activity extends a warm welcome to John F. Wilhelm recently named Director of Educational Services. He has already shown his enthusiastic support for the continuing education programs and is actively involved with us in planning aimed at new courses and improved means to help you provide successful educational programs.

SECOND CALL FOR SECTION EDUCATION CHAIRPERSON APPOINTEES

If you haven't yet sent us the name and other incidentals of your Section Continuing Education Coordinators, we ask you to ACT NOW!

Fill out and send the coupon below at your earliest convenience to Vincent J. Giardina, your IEEE contact in Continuing Education.

Vincent J. Giardina
IEEE
445 Hoes Lane
Piscataway, NJ 08854

Dear Vince:

You have my support for the best Short Course Program ever.

Here is the name of the Continuing Education Coordinator in

_____ Region

_____ Section

Appointee: _____

Business Address: _____

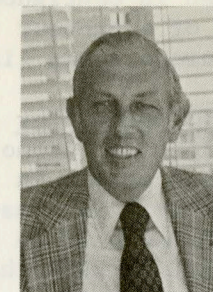
Street _____ City _____ State _____ Zip _____

Home Address: _____

Street _____ City _____ State _____ Zip _____

Telephone: _____ Business _____ Home _____ IEEE Number _____

Publications: the man with the green thumb



Staff Director Elwood Gannett sees working in the publications department as working in a greenhouse. "What we produce is read by 180,000 members--at least we hope it's read," says Woody Gannett, who has just celebrated his 30th anniversary with IEEE and is in charge of all the Institute's publications, excepting Spectrum. Mr. Gannett joined the IRE staff in 1946 as Assistant to the Executive Secretary. At that time there were seven people putting out one publication, Proceedings of the IRE, for which Mr. Gannett became Technical Editor in 1949 and Managing Editor in 1954. He was named Managing Editor of the IEEE and Staff Head of Editorial Operations in 1963. Since 1973, as Director of Publication Services, he has lead a staff of 44 people who put out 38 periodicals, and 22 newsletters, as well as 10 books, 12 conference records, and 450 conference paper pre-prints per year. Among his many garlands of recognition, Mr. Gannett is a Fellow of the IEEE.

Assisting Mr. Gannett in the Publications Department are: James Carter, Production Manager of all publications save Spectrum; Reed Crone, Managing Editor of the Proceedings and the IEEE Press; Kaarin Kolbre, head of Information Services; and Patricia Penick, Administrative Assistant to Mr. Gannett.

This is the third in a series detailing key Headquarters functions.

RAB NEWS

At its second open meeting, held at Headquarters on 21 September, RAB decided to maintain Sectional rebates at the predetermined level, but bill each section at 8¢ per member. This would raise \$12,000, and meet the aim of bringing the field services area in on budget.

Memberships in arrears, listed on computer printouts, have been sent to Section Chairmen. They are asked to work with the local

membership development committees, making personal contact with members to encourage them to rejoin.

For new memberships, there is an incentive for the rest of 1976. New members will be enrolled through December 31, 1977, receiving the extra months of membership free of charge. Membership brochures, for both students and higher grades, are available from Headquarters.

STUDENT NEWS

The IEEE Student Branch Membership Contest offers as prizes IEEE publications for Branch libraries and cash for Branch activities. Judith Rundle, Coordinator of Student Services at Headquarters, has the details.

The Vincent Bendix Award can provide a Student Branch with up to \$500 cash to fund imaginative projects. The deadline for competition applications is Nov. 15, 1976, and Judith Rundle can provide details.

PUB NEWS

Browns Ferry, Illiac IV, the "Great Northeast Blackout"--names that conjure up an EE's nightmare. In October Spectrum, these and other, less famous instances of failure are documented as part of a unique special issue entitled "What Went Wrong?" The idea is to search for lessons learned from a variety of case histories that can be applied, in a general way, to the experience of every working engineer. Other topics on the theme include: automation in the U.S. Post Office, air-traffic radar, NASA and communications satellites, and the Viking scoop. October also covers Carter and Ford addressing some of the concerns of engineers and scientists.

IEEE Press adds three new volumes to those mentioned in EE's August issue: "Electromagnetic Horn Antennas," edited by A. W. Love; "Electronic Switching: Central Office Systems of the World," edited by Amos E. Joel, Jr.; and "Spread Spectrum Techniques," edited by Robert C. Dixon. A 464-page book, "Electromagnetic Horn Antennas" contains 82 reprints, providing both background and practical information, and is sponsored by the IEEE Antennas and Propagation Society. The volume is priced at \$11.95 for the paperbound member edition, and \$23.95 clothbound (discounted to \$17.95 for members). "Electronic Switching: Central Office Systems of the World," reprints 31 papers in 288 pages, is

PUB NEWS (cont'd)

sponsored by the IEEE Communications Society, and priced at \$8.95 paperbound, \$17.95 clothbound (\$13.45 for members). "Spread Spectrum Techniques," also sponsored by the IEEE Communications Society, offers reprints of 44 papers in 424 pages, priced at \$10.95 paperbound, \$21.95 clothbound (\$16.45 for members). Orders, including payment, should be sent to: IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854.

Proceedings hits NBC. Both the "Today Show" and "NBC Nightly News" picked up Targ and Puthoff's article on "remote viewing" experiments from March 1976 Proceedings. The "Today Show" coverage of 9 August referred to Proceedings as one of the world's most "conservative and prestigious" scientific journals, and displayed the issue's cover, which had also been shown on one of two NBC News 5-minute spots on 3 and 4 August.

Electrical History is surveyed in September's Proceedings special issue. This fascinating issue covers the development of electrical science over the past 200 years, with articles authored by both historians of technology and well-known engineers who discuss their own contributions.

TAB NEWS

The IEEE Energy Committee, in a unique action this June, wrote to more than 25,000 IEEE members residing in California, urging them to review the issues and to vote on the California Nuclear Initiative, and offering to supply packets of literature, pro and con, upon request. Over 3300 did request packets. This effort to provide educational information about the issues was considered a success both from the large number of requests for packets, and because about 350 members sent in voluntary contributions to support the effort. Because such packets of reprints are deemed to be educational material, contributions in support of such projects are tax deductible. This effort will be extended in the near future to states facing similar initiatives, such as Arizona, Colorado, Ohio, Oregon, and Montana. The Energy Committee will not only contact IEEE members

Centerfold inserts

Ivory--HQ telephone listings	2A, 2B
Ivory--Printing/Mailing/Labels charges	2C, 2D
Gray--Fellow Nomination Kits--order form	2E, 2F
Canary--Service Contract Bill & Keogh Plan	2G, 2H
Canary--USAB survey	2I, 2J
Pink--Continuing Education	2K, 2L

in these states, but also will advise Section Chairmen in contiguous states, because the impact of a nuclear initiative vote will usually cross state lines.

The CSIT Newsletter (Committee on Social Implications of Technology) is providing a reader return coupon in the last issue of 1976, in an effort to consolidate readership. The 1977 issues will be sent to ex-officio recipients and to only those readers who have returned a coupon.

A new IEEE Transactions on Cable Television is being offered by the IEEE Broadcast, Cable, and Consumer Electronics Society. Those members who have previously expressed an interest by returning a coupon will be automatically billed for 1977; others should watch for this new periodical when they review their membership and publication options for 1977.

WELCOME ABOARD

John F. Wilhelm has joined the IEEE Headquarters staff as Director of Educational Services. Mr. Wilhelm, who has spent his entire career with RCA Corporation, most recently directing multi-divisional technical information and publications activities, will promote the Institute's goals for expanding its continuing education, career guidance, accreditation, and career development programs. Mr. Wilhelm has observed: "It is clear that the thrust of major IEEE educational activity aims at upgrading the technological base of the individual engineer and in providing means for encouraging and implementing career development. Both of these areas have long been my concern as an engineer and one who has managed engineers."

ESTABLISHED

The Broadcast, Cable and Consumer Electronics Chapter of the Toronto Section

The Joint Electron Devices/Microwave Theory and Techniques Chapter of the Princeton Section

The Power Engineering Chapter of the France Section

The Nicaraguan Subsection of the Central America Section

The Joint Antennas & Propagation/Microwave Theory & Techniques Electromagnetic Compatibility Chapter of the Albuquerque Section