

DECEMBER 1975

DEC 29 1975  
NO. 61

STUDENT ACTIVITIES DEPT.

A management newsletter on IEEE operations . . . to encourage communication among all organizational entities and the staff

# ELECTRICAL ENGINEERING®

IEEE ADDS KEOGH PLAN TO MEMBER benefits portfolio through Continental Illinois National Bank and Trust Company of Chicago (Continental). This "IEEE Self-Employment Retirement Plan and Trust" was jointly developed by IEEE and Continental. It is available for adoption by members of IEEE and their spouses throughout the U. S. The plan has been made available in time to allow many eligible members and their spouses to achieve tax savings for 1975.

The IEEE Plan is offered by Continental only by prospectus which can be obtained directly from Continental Bank, 231 S. LaSalle St., Chicago, Illinois 60693. (See SPECTRUM Dec. for further details.)

ELECTION RESULTS FOR IEEE OFFICERS and Directors for the coming year are in: President--Joseph K. Dillard; Executive Vice President--Robert F. Cotellessa. Regional Directors for 1976-1977--Arthur L. Rossoff, Region 1; Larry K. Wilson, Region 3; Ross L. Bell, Region 5; Frank C. Creed, Region 7; Luis R. Jimenez, Region 9. Divisional Delegate/Division Directors for 1976-1977--Ernest S. Kuh, Division I; Eric Herz, Division III; Stephen S. Yau, Division V.

## TOP-SIDE

SENATE COMMITTEES HEARD IEEE President Arthur Stern call for a "national policy to motivate industry to increase its research and development activities and thereby contribute to our leadership throughout the world." At a joint meeting of three Senate Committees considering bills relating to national policy and priorities for technology and science, Mr. Stern emphasized the need for such legislation in noting that "the history of leadership in

the world has always been tied to the history technical leadership."

Mr. Stern (pictured on the left previewing his testimony with Executive Director H. A. Schulke, Jr.; Leonard Farrell, Director, Professional Services; and Ralph Clark) told the Senators of his support for the proposed legislation that would re-establish the position of Presidential Science Advisor. The IEEE President mentioned that such a person "must sit on the important councils of the Executive Office of the President." In connection with the testimony of Mr. Stern, he submitted a written statement signed by the presidents of 12 societies (including IEEE) who are members of the Association for Cooperation in Engineering (ACE). They also supported this proposal and noted that "the contributions of science and engineering are so important to our national progress and well being that scientific-engineering leadership and advice are needed at the highest levels of government



#### CONVENTION NEWS

... The prime objective should be to re-establish a capability to assist and advise the president concerning the implications of science and technology in the vast array of national economic, industrial, social, political, and foreign policy problems with which he must deal."

The IEEE President did point out to the Senators that the legislation currently being proposed does not adequately provide for the scientific and engineering manpower, for their required continuing education, and for their well-being. "In order to make the best use of technology and science for our country and humanity," Mr. Stern commented, "we must attract the best, we must train them well, we must give them appropriate rewards, and we must establish conditions so that they can age in dignity."

FEDERAL ENERGY ADMINISTRATION (FEA) considering issuing a contract to ASME, ASHRAE, IES and IEEE to organize and train teams from the Societies' local Sections and Groups throughout the country to promote energy conservation and aid in its accomplishment at the local level. It was unanimously approved to pursue this FEA contract in cooperation with other societies, if IEEE is the lead contractor.

#### PRODS AND OPPORTUNITES

IEEE INFORMATION PLEASE, N. Y. HQ: Dial (212) 644-7900. With the advent of conversion to Centrex telephone system, each extension now has its own telephone number. (See directory, Insert 4E, October E. E.) To reach those people located in the IEEE Service Center in Piscataway, New Jersey, dial: (201) 981-0060. To reach Professional Services/Washington Office, dial: (202) 785-0017.

GOING ABROAD? How about lecturing to IEEE Sections in overseas countries, or vice versa, stateside! Contact Emily Sirjane at HQ for names and addresses of Section Chairmen with whom you may work out arrangements directly. (See Oct. E. E. page 3.)

E. E. is sent without cost beyond dues to officers of IEEE Boards, Committees; Divisions, Societies, Groups, Conferences; Regions, Councils, Sections, Subsections, Chapters, and Branches. It is published bi-monthly by IEEE, 445 Hoes Lane, Piscataway, N. J. 08854. Second-class postage is paid at Piscataway, N. J.

ELECTRO CROSSES 200th BOOTH MARK as of this writing, way ahead of Wescon. Electro, following merger this year of IEEE Intercon and the Northeast Electronics Research and Engineering Meeting (NEREM) has its grand opening May 11-14, 1976 in Boston. This new IEEE convention and product exposition will be held at Hynes Memorial Auditorium directly connected with the headquarters hotel, the Boston Sheraton.

Enthusiasm is running high for Electro, which will capitalize on the Bicentennial, the 50th anniversary of the IEEE Show, and the 100th anniversary of the telephone. (For further information, contact Bill Weber, EEE Inc., 3600 Wilshire Blvd, Los Angeles, Calif. 90010. Tel: (213) 381-2871; or Ernest Witschi, 31 Channing St., Newton, Ma. 02958. Tel: (617) 527-5151.)

#### INTER-SOCIETY NEWS

ACE society participation in inter-society projects underway. At ACE annual meeting, the Board of Engineering Cooperation (BEC) established an ACE Projects Identification Committee (PIC) under chairmanship of IEEE Past President Harold Chestnut. Adopted were 15 areas of inter-society cooperation appropriate for cooperative programs by interested ACE societies. Members have been notified of the staff contact in each area. Each society will report to the next BEC meeting of progress in these subject areas.

BICENTENNIAL ENGINEERS WEEK, February 22-28, features theme: American Ingenuity, 200 years of engineering. A limited number of special National Engineers Week kits, with the most up-to-date information to help you organize your program with best methods and techniques, are available from Marty Gitten, Mgr., Int Comm., IEEE Service Center, 445 Hoes Lane, Piscataway, N. J. 08854, Tel: (201) 981-0060, ext. 178. Complete price list

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## YOU GET ...

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- educational activity with little effort

## WHAT YOU SHOULD DO ...

Quite simply, we ask that you take three important steps:

1. Survey your local area, via newsletter or whatever, to determine your educational needs and the type of support you can expect.
2. Discuss your findings with your Unit Officer and chart your educational program.
3. Establish a date and location and call me at (201) 981-0060 extension 174.

Unfortunately, we've experienced a sell-out condition for the 1976 Spring session, but many openings exist for the 1976 Fall session (September - November).

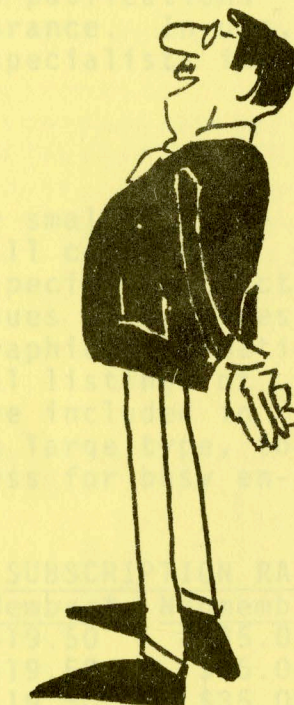
Happy Holidays!

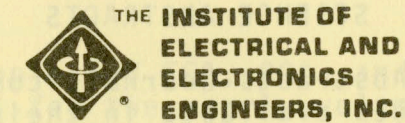
*Vince Giardina*



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

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





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INSPEC INFORMATION SERVICES  
Descriptions and 1976 Subscription Rates

Housed in England at the Institution of Electrical Engineers (IEE), the INSPEC data base is the largest computerized data base in the English language in physics, electrotechnology, computers and control.

Recently, the data base has been expanded to include worldwide information on mechanical engineering, production engineering and engineering management.

Inaugurated in 1898, INSPEC currently employs 35 full-time information scientists and a panel of 400 external abstractors who process the world's technical literature at the rate of hundreds of items daily. Papers appearing in over 2000 periodicals are abstracted, classified, and indexed each year--plus 500 conference proceedings, 4000 reports, 2500 university theses, 3000 patents and 300 books. In total, over 150,000 items are entered into the data base each year. At present over 400,000 items are available for computer recall.

Designed for readability and comprehension, the INSPEC publications have been described as models of composition and appearance. In use, they have been termed "indispensable" by information specialists in industry, education, business and research.

KEY ABSTRACTS

Designed for individual use by R&D specialists and for smaller, specialized companies and libraries, each KEY ABSTRACT will cover only the most important worldwide developments within its specific subject discipline--no more than 250 items in each issue. Issues will be restricted to 24 pages and will contain complete bibliographic information and a comprehensive abstract on each item. Semi-annual listings of titles and addresses of all abstracted publications are included in the subscription price. KEY ABSTRACTS are printed in large type, to provide quick and easy--and low-cost--information access for busy engineers. Published monthly.

C O D E	T I T L E	SUBSCRIPTION RATE	
		Member*	Nonmember
KEY-SSD	KEY ABSTRACTS: Solid State Devices	\$19.50	\$35.00
KEY-EC	KEY ABSTRACTS: Electronic Circuits	\$19.50	\$35.00
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KEY-IPC	KEY ABSTRACTS: Industrial Power and Control Systems	\$19.50	\$35.00
KEY-ALL	Special Combination Rate (all 6)	-----	\$180.00

\*Special reduced rates apply to members of IEEE, IEE and AIP. Members of these Societies must include their membership number with trial order.

## SCIENCE ABSTRACTS

The three INSPEC Science Abstracts Journals comprise the most comprehensive abstracting services available in their fields of coverage. Each issue contains eight indexes for quick and easy access to desired information: Subject, Author, Patent, Report, Book, Conference, Bibliography, and Supplementary List of Journals. A yearly subscription includes semi-annual Author and Subject Indexes, which contain a complete listing of abstracted journals with the publishers' names and addresses.

ELECTRICAL & ELECTRONICS ABSTRACTS, published monthly, has more than 300 classified subject codes embracing both heavy electrical and electronics engineering subjects. The subject index now contains almost 1500 alphabetical subject headings under which relevant entries are listed. Over 40,000 items per year are included in this journal. All issues of 89 core journals from 13 countries are abstracted completely for inclusion in either or both EEA and CCA. Over 2000 additional periodicals and serials from throughout the world are scanned as received for abstracting.

Code: EEA Rate: \$405.00

COMPUTER & CONTROL ABSTRACTS, published monthly, contains almost 200 classified subject codes embracing all areas of computer and control engineering. The subject index currently contains nearly 1000 alphabetical subject headings. Approximately 24,000 items per year are included in this journal. All issues of 89 core journals from 13 countries are abstracted completely for inclusion in either or both EEA and CCA. Over 2000 additional periodicals and serials from throughout the world are scanned as published for abstracting.

Code: CCA Rate: \$235.00

PHYSICS ABSTRACTS, published twice monthly, has over 600 classified subject codes covering the whole of physics, from elementary particles to astrophysics. The subject index currently contains over 2000 alphabetical subject headings. Over 85,000 items per year are included in this journal. All issued of 120 core journals from 23 countries are abstracted completely for inclusion in PA. Over 2000 additional periodicals and serials from throughout the world are scanned as received for abstracting.

Code: PA Rate: \$560.00

### Combination of Abstracts:

ELECTRICAL & ELECTRONICS AND COMPUTER & CONTROL ABSTRACTS -

Code: ECA Rate: \$550.00

ELECTRICAL & ELECTRONICS, COMPUTER & CONTROL AND PHYSICS ABSTRACTS -

Code: ECP Rate: \$995.00

### MICROFICHE EDITIONS

PA, EEA and CCA are available on microfiche. This is a positive film transparency measuring 105mm by 148mm and containing the images of 98 printed pages reduced in size by a factor of 24. Each fiche has an identification label visible to the naked eye. The price for a microfiche subscription is the same as for the printed version. There is a 50% discount on the microfiche part of a combined fiche plus printed edition subscription.

MICROFILM: All back copies of EEA, CCA, and PA are available in microfilm, including indexes for the yearly volumes. Cumulative Indexes covering 4-year periods are available on separate reels. Discounts are available for purchasers of complete sets of each periodical.

### CURRENT PAPERS

These low-cost companion journals to the SCIENCE ABSTRACTS have the same coverage and arrangement as EEA, CCA and PA, and include full bibliographic data. Issues do not contain the abstracts themselves or the eight indexes. Published monthly--in advance of the main journals--they serve as handy, inexpensive research tools.

CODE	T I T L E	SUBSCRIPTION RATE	
		Member*	Nonmember
CPE	CURRENT PAPERS IN ELECTRICAL & ELECTRONICS ENGINEERING	\$25.00	\$60.00
CPC	CURRENT PAPERS ON COMPUTERS & CONTROL	\$25.00	\$55.00
CPP	CURRENT PAPERS IN PHYSICS	\$30.00	\$75.00

\*Special reduced rates apply to members of the IEEE, IEE, AIP, IERE and IOP. Members of these Societies must include their membership number with order.

### Information Services in Mechanical Engineering and Instrumentation/Measurement

The ISMEC BULLETIN appears twice monthly and gives notifications of currently published papers in all aspects of mechanical engineering, production engineering and engineering management. Over 160 journals from throughout the world are regularly scanned for inclusion of worthy items in the ISMEC BULLETIN. Important conference papers, books, and reports published in all countries and languages are also itemized. Notifications within the ISMEC BULLETIN are in the CURRENT PAPERS format. When necessary, title "enhancements" are added to further define the scope of the article. Cross-references are included when required, the ISMEC BULLETIN provides a subject selectivity designed to meet the widely differing needs of the subject specialists and the general user. Each issue contains an author and a subject index. In addition, each yearly subscription includes semi-annual cumulative author and subject indexes.

Code: ISM Rate: \$220.00

METRON, published monthly, reviews and classifies the literature on measurement and automatic control. Over 230 scientific and technical journals are scanned as published for inclusion. Between 200 and 300 newly published items--including conference proceedings--appear in METRON each month. Design, manufacture, performance, application and marketing of instrumentation, are covered. Notifications in METRON take two forms: Information Reviews which collate and summarize recently published information in the areas of METRON's coverage; and Current Titles, which list complete bibliographic references for each item. Each monthly issue contains an author index and a subject cumulative annual index.

Code: MET Rate: \$ 75.00

## MAGNETIC TAPES AND ON-LINE RETRIEVAL

**MAGNETIC TAPE SERVICES:** Three magnetic tape services are provided. INSPEC-1 corresponds to the three abstracts journals and includes the text of the abstracts, as well as full bibliographic information.

INSPEC-2 corresponds to the Current Papers. No subsets available for INSPEC-2. ISMEC is available in the same format. Prices available on request.

**ON-LINE RETRIEVAL:** The complete INSPEC data base, from 1969 onwards, is available on-line from Lockheed's DIALOG Retrieval System. Access is by direct line or through the TYMSHARE network. In the U.S.A. contact Lockheed Information Sciences Ltd., 3251 Hanover Street, Palo Alto, California 94304.

### OTHER INSPEC SERVICES

**SDI (Selective Dissemination of Information):** The subscriber receives weekly notification of all new documents matching his individual search profile, including full bibliographic information on each item. A unique continuous monitoring and feedback system enables alteration of information requirements as needed.

**TOPICS:** A standard-profile SDI service covering 73 subjects. The subscriber receives weekly notification, with full bibliographic information.

**TAILORED ABSTRACTS:** Provides subset selections to the subscribers' choice of any chapter of EEA or CCA. The subscriber receives complete reprints of the journal chapters he chooses.

**COMPUTER PROGRAMS LIBRARY:** Provides a listing of programs relevant to e/e and control engineering, from photocopies of programs can be ordered. Copies of companion documents describe relevant problems and how they were solved with a digital computer. All have been referred.

**INSPEC REPORTS:** Describe INSPEC's research in information science, including the design criteria and effectiveness of information systems and services, with comparative evaluations, user preference reports and more.

**INSPEC THESAURUS:** A Thesaurus of terms for Physics, Electrotechnology, Computers and Control, consisting of three sections; and alphabetic listing, a hierarchical display and a classified listing, with main terms beneath each unified category.

**INFORMATION SEMINARS AND CONSULTANCY:** Users who want to organize information seminars for their students or personnel can take advantage of the experience of the INSPEC staff, who will discuss and possibly participate in conducting the seminar. In addition, INSPEC's experts will advise clients who want help in setting up a computerized information service.

### FOR FURTHER INFORMATION and HOW TO ORDER

All rates are based on a 1976 calendar-year subscription beginning with the January issue. Company purchase orders and individual orders (make check payable to IEEE) should be mailed to: IEEE, INSPEC, 445 Hoes Lane, Piscataway, New Jersey 08854.

For further information on any INSPEC service, U.S.A., Canada and Latin America, please write or call: IEEE, Attn: Mr. Donald H. Gieb, Marketing Dept., 445 Hoes Lane, Piscataway, New Jersey 08854, Area Code 201 - 981 - 0060, Extensions 156 or 157.

**Remainder of the World:** Mr. Oliver Ball, Marketing Dept., INSPEC, Savoy Place, London WC2R 0BL, England.

ab(rev.9/75)

E. E. No. 61--4F

December 1975

promotional aids for



national engineers week

Here are the basic promotional aids

with which to build a successful Engineers

Week program. Order your aids now and use these promotional materials to emphasize engineering and the 1976 American Bicentennial theme.

**TV Spot Films:** A set of two color films (each 30 seconds), dramatizing the 1976 National Engineers Week theme. Produced to meet network color standards, can also be shown in black and white. Each film qualifies for public service time during station breaks. Reach your largest audience with these TV announcements. Price: Set of two films \$30.

**Tape Recorded Radio Announcements:** A set of seven 20 and 30-second radio spot announcements, made by a network radio announcer. Designed for use during station breaks as "public service announcements". Price: Set of seven recorded announcements, \$8.

**Posters:** Colorful 11 x 14-inch pasteboard posters carrying the 1976 Engineers Week Bicentennial design and theme. This is the basic promotional item for calling attention to the Week. Use on bulletin boards, in window displays, school exhibits, etc. Price: \$12 per 100.

**Buttons:** Colorful round buttons (with pin clasp) of the 1976 theme design. Every engineer should wear one during February. Ideal as give-aways to family, friends, employees, and customers. Price: 8 for \$2.

**National Engineers Week Seals:** Use these brightly colored seals on all office mail from now through February 28. Poster design printed on 1½ inch gummed paper. Price: \$10 per 1000.

**Two creative newspaper stories for National Engineers Week:** By-lined feature stories, written in newspaper style, focus on the theme, and appropriate for insertion with illustrations in newspapers or special Engineers Week supplements. Price: \$3 per set.

**Engineers Week Letterhead:** Packages of 100 printed with theme and design. Use for personal and chapter correspondence, memorandums, announcements. Price: \$4 for a package of 100.

**Glossy Reproduction of Poster Design:** Prepared for printing of invitations, advertisements, newsletters, program covers, etc. Package of three allows for black/white or multi-colored use. Every chapter should have one. Price: \$2 per set.

### NATIONAL ENGINEERS WEEK 1976 ORDER BLANK

- \_\_\_\_ TV spot films at \$30
  - \_\_\_\_ Radio spot announcements at \$8 per set
  - \_\_\_\_ Posters at \$12 per 100
  - \_\_\_\_ Buttons at \$2 per 8
  - \_\_\_\_ Seals at \$10 per 1000
  - \_\_\_\_ Set of two newspaper stories at \$3 per set
  - \_\_\_\_ Letterhead stationery at \$4 per 100
  - \_\_\_\_ Glossy reproduction at \$2 per unit
- E. E. No. 61--4G



### NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS 2029 K Street, N.W., Washington, D.C. 20006

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December 1975

TO: IEEE REGIONS, SECTIONS, GROUPS AND SOCIETIES  
(AND CONFERENCES SPONSORED SOLELY BY IEEE)

LABEL, PRINTING AND MAILING CHARGES

Name and Address Selections:	Price per 1,000
a) Four Across Labels (Avery-Self-Adhesive)	\$22.00
b) Four Across Labels (Cheshire)	\$20.00
c) One Across Labels (Avery or Cheshire)	\$40.00
Rosters	
c) Four Across label format	\$22.00
d) One Across label format	\$50.00
e) Name and address on one line	\$22.00
Company Affiliation Rosters	
a) One Across Roster	\$30.00
Technical Interest Selections:	
a) Four Across Labels	\$30.00
b) One Across Labels	\$60.00

MAIL ROOM LABOR

If certain minimum conditions are met we may use automatic equipment for insertion of material, affixing the label, and applying the postage to the envelope. The minimum quantity for use of the automatic equipment is 1,000 pieces.

**Affixing:** Affixing labels on quantities in excess of 1,000 can be done on automatic equipment providing they are Cheshire and not Avery labels. Avery labels must be applied by hand and this service is therefore subject to the hourly rate of \$7.00.

**Sorting:** All second and third class Non-Profit mail must be sorted manually into five groups (Post Office regulations--details below), and this service is therefore subject to the hourly rate of \$7.00.

**Inserting:** The inserting machine will accept envelopes ranging in size from 3 1/4"x6" to "6x12". The paper must be 20 lb. stock or better. The maximum number of inserts is six. Each single enclosure must be at least 3"x5" in size but smaller than 6"x12". Any other inserting jobs will be handled manually at the \$7.00 per hour rate.

The following are the rates for automatic equipment:

a) Affixing Cheshire Labels	\$ 4.50 per 1,000
b) Inserting and Mailing	\$ 8.00 per 1,000
c) Affixing, Inserting and Mailing	\$11.00 per 1,000

PRINTING LABOR (including stapling, collating, etc.) \$10.00 per hour  
Cost of materials (see reverse side) will be billed in addition

U. S. POSTAL SERVICE - REQUIRED SORTING AND MAILING REGULATIONS

The following are the U.S. regulations which apply for sacking, labeling and dispatching second and third class matter. When there are six or more (ten for third class) individually addressed pieces to the following described destinations, they must be securely wrapped or tied together as a package by the mailer. Each sack must be labeled as to its designation. Mail must be sorted into the following categories:

1. FIVE-DIGIT ZIP CODE PACKAGES: The mailer must package all pieces which are addressed to the same five digit Zip Code delivery unit. The pieces must be faced in the same direction.
2. MIXED CITY PACKAGES: Mail bearing the same first three digits of the Zip Code for a city must be combined into a package and labeled "Mixed City" (same city with different Post Office districts).
3. SECTIONAL CENTER FACILITY (SCF) PACKAGES: After all warranted five-digit Zip Code and Mixed City Packages have been prepared, the pieces remaining for Post Offices in a sectional center must be combined into a package and labeled "Mixed SCF". These are pieces with the same first three digits of the Zip Code but going to different cities.
4. STATE PACKAGES: The pieces remaining for a State must be combined into a package and labeled with the name of the State.
5. MIXED STATE PACKAGES: Pieces remaining after the above packages have been prepared must be combined into a package and labeled "Mixed States".

- See Reverse Side -

MATERIAL COSTS FOR SERVICES RENDERED BY IEEE

Chief 22 - Aluminum Plate		\$ 4.00
	<u>PAPER</u>	<u>COST PER 1,000</u>
8 1/2 x 11 Plaza Xeralith		\$ 4.00
8 1/2 x 11 Multilith Plaza Xeralith Emblem		\$ 8.00
8 1/2 x 11 Mead Cockle - Letterhead		\$10.00
	<u>POSTCARDS</u>	
Single, Government stamped		At Cost
Double, reply, Government stamped		At Cost
Single, unstamped		\$16.00
Double, unstamped		\$32.00
	<u>ENVELOPES</u>	
<u>CODE NO.</u>		
G-18 IEEE Return envelope (8 3/4 x 4) Postage Paid (Permit #1332)		\$11.50
G-20 First Class #10 with IEEE logo and address		\$ 9.50
G-23 First Class #10 with IEEE logo (no address)		\$ 9.50
G-27 Government Stamped #10 with logo and address		At Cost
K-2 10 1/2 x 7 1/2 gummed flap and clasp with IEEE logo and address		\$26.50
K-3 9 x 12 gummed flap and clasp with IEEE logo and address		\$28.00
K-7 9 1/2 x 12 1/4 gummed flap and clasp with IEEE logo and address		\$31.00
K-10 10 x 13 gummed flap and clasp with IEEE logo and address		\$34.00

EXCERPTS FROM IEEE POLICY STATEMENTS

#13.1 "MAILING LISTS"

IEEE membership mailing lists, whether obtained through IEEE Headquarters or through any IEEE organizational unit, may be used only in connection with normal IEEE-sponsored activities, and may be used only for such purposes as are permitted under the New York Not-For-Profit Corporation Law. They may not be used for electioneering in connection with any office within the IEEE, or for political purposes, or for commercial promotions, except as explicitly authorized hereunder. Any requests to Headquarters for a mailing list shall state the purpose for which the listing is to be used. A request for an exception to the above rule may be submitted to the IEEE General Manager.

#13.2

3. Requests for labels by institutions and organizations with scientific, technical and educational goals, as defined in Section 501 (c)(3) or 501 (c)(6) of the 1954 IRS code, may be honored provided:

- a) The total number of names requested by an outside entity shall not exceed 20% of the total IEEE membership except students.
- b) If feasible, mailings shall be handled through the facilities at IEEE Headquarters. If not feasible, the requesting entity shall have pledged the list will be used only for mailing purposes and that procedures, satisfactory to the IEEE General Manager, will safeguard the sanctity of the list.
- c) Responsible IEEE officer or staff shall have reviewed each case and recommended approval to the IEEE General Manager or his deputy.

Note:

The above prices are effective January 1, 1976. Postal rates will be charged at actual cost.

and order blank on page 4G. The kit containing these promotional aids, was assembled by the National Society of Professional Engineers (NSPE). Be sure to order your aids now and use these promotional materials to emphasize engineering and the 1976 American Bicentennial theme in your own or inter-society activities.

TOOLS AND AIDS

GRAPHIC SYMBOLS IN ELECTRICAL and electronics standards, IEEE Standard 315, has received approval. A good communications tool especially in international trade, this standard covers all symbols used in electrical and electronics diagrams. It will be available shortly. (Further information, contact B. Stanleigh, HQ.)

IEEE STANDARD MODULAR INSTRUMENTATION and Digital Interface System (CAMAC)---Computer Automated Measurement and Control---has been given completed approval. IEEE has adopted it and published the first U.S. edition. This document presents specifications for a standardized instrumentation and interface system for computer automated measurement and control (CAMAC). A related course "Standard Modular Instrumentation and Digital Interface System Std 583" is being given January 13 at the Rodger Young Center, 936 West Washington Blvd., Los Angeles. The course, co-sponsored by the IEEE Educational Activities Board and the IEEE Los Angeles Council, is part of a series offering two courses a month until May. For further information on the course call V.J. Giardina (201) 981-0060, (IEEE).

PUB NEWS

TECHNOLOGY '76, the applications and implications of today's breakthrough technologies to be subject of SPECTRUM January issue. This third technology update will contain considered opinions of the world's foremost experts in 31 specialties --from aerospace to vehicular technology.

NEW IEEE MEMBERSHIP DIRECTORY

available containing listings of 150,000 members (other than students), biographies of all Fellows and a list of all past IEEE Awards and winners. Price: members: \$12.00; non-members: \$35.00.

1960-1974 INDEX TO AIEE/IEEE TRANSACTIONS on Power Apparatus and Systems available. Listing over 4,000 papers, and containing over 20,000 index entries, this index covers all papers and abstracts published in Volumes 79 through Power apparatus and Systems--PAS-93 of the IEEE Transactions and its predecessor publication Transactions of the American Institute of Electrical Engineers, Part III: Power Apparatus and Systems. Order from IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854. Price: members: \$15.00 for first copy, all other copies at \$20.00; non-members: \$20.00.

TAB PUBLICATIONS COMMITTEE merged with IEEE Publications Board, to streamline decision-making and better coordinate publications operations--per approval of BofD. This move officially goes into effect in 1976.

STUDENT NEWS

FIRST WORLD-WIDE DISTRIBUTION of top thirty winning papers from IEEE's 10 Regional Paper Contests announced. "IEEE 1975 Student Papers" now available from IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854. New Jersey residents add 5 per cent sales tax. Price: members: \$8.00; non-members: \$16.00. One copy will be sent to Student Branches and their college or university library on campus at no cost.

PUBLISHING OPPORTUNITY--STILL TIME. Arrangements have been made by the Student Activities Committee with a number of IEEE's 31 Groups and Societies to publish in their Newsletters student-authored papers (or condensed versions) which were presented in an IEEE Student Paper Contest at a Branch, Section, Area, or Region level. (For further information on this publishing opportunity contact Bob Asdal, HQ.)

SECTION STUDENT ACTIVITIES COMMITTEES (SSAC) of great value to students. The Committee should actually consist of a number of people working on student activities for optimum benefit of students. Every Section which has one or more Student Branches should have an active "SSAC". Ideally, the SSAC Chairman should be an engineer, or engineering manager, concerned with professional development of students. If you don't have a SSAC, appoint one. (For a copy of the IEEE Section Student Activities Committee Guide contact Bob Asdal, HQ.)

HONORS

REMINDER! SUBMIT NOMINATIONS FOR Awards. (See SPECTRUM, November pp. 18, 19.) Recognition should be accorded deserving members for outstanding achievements in Electrical and Electronics Engineering. The Awards Board needs your sincere cooperation in this vital activity. (Contact Una B. Lennon, HQ, for nomination forms and further information.)

ACCOLADES TO SPECTRUM on article: "New Glasses Aid "Tunnel Vision" ("Focal Points," February 1975, p. 15.) Reports Dr. Arthur D. Zampella, Medical Director, the National Institute of Rehabilitation Engineering: "A number of handicapped arranged to come to the Institute to be evaluated and fitted, thanks to the article-- and their lives were changed (for the better)

as a result...."

FOR YOUR INFORMATION

ACTION REQUEST for knowledgeable people in Groups and Societies to program a suggested engineer's Career Path" to cover a 30-40 year period including a time frame as to where an engineer should be at a specific time in his career. (For further information, contact Jack Kinn, HQ.)

INTERSOCIETY RELATIONS COMMITTEE has established a subcommittee chaired by Mr. Douglas Hinton on United Nations liaison. (For further information contact Peter Edmonds, HQ.)

WELCOME ABOARD!

New Chapters in Sections:

- The Power Engineering and the Industry Applications chapters of the Virginia Mountain Section were established.
- The Computer Chapter of the Central Indiana Section was established.
- The Circuits & Systems and the Power Engineering chapters of the Princeton Section were established.
- The Industry Applications Chapter of the Oakland-East Bay Section was established.
- The Electromagnetic Compatibility Chapter of the Baltimore Section was established.

Centerfold Inserts

CANARY	-	EAB	4A, 4B
IVORY	-	Information Sheet on INSPEC Services	4C, 4D, 4E, 4F
WHITE	-	Aids for Engineers Week	4G, 4H
BLUE	-	Reference Cost Sheet	4I, 4J