

R. TABAK

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ANNUAL ASSEMBLY ELECTS SEVEN 1978 BOARD MEMBERS AT BOB MEETING IN SAN DIEGO, CALIF.; BOARD HALTS ACTION ON REGISTRATION POLICY

Seven key seats on the IEEE Board of Directors for 1978 have been filled by the Annual Assembly. The 19-member body comprised of IEEE membership-elected Directors and officers chose the following slate:

- Eric Herz--Vice President for Technical Activities
- Bruno O. Weinschel--Vice President for Professional Activities
- Paul F. Carroll--Vice President for Regional Activities
- Jerome J. Suran--Vice President for Educational Activities
- Robert W. Lucky--Vice President of Publications Activities
- Robert D. Briskman--Secretary/Treasurer
- Joseph L. Koepfinger--Director of Standards Activities

Six of the seven new Directors will serve on both the Executive Committee and the Board of Directors. The seventh, the recently created Director of Standards Activities, will serve only on the Board.

After several hours of debate by the Annual Assembly, the slate that they elected was identical to the one submitted to them by IEEE's Nominations and Appointments Committee. (Profiles of the new officers will appear in future EE issues.)

BOARD ACTIONS

At its November 18-19 meeting in San Diego, IEEE's Board of Directors voted to "hold in abeyance" the implementation of its Policy Statement 7.3, Registration of Engineers, pending the report of the Board's own ad hoc committee on registration. Policy 7.3, among

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ELECTION RESULTS

Ivan A. Getting, former president of Aerospace Corporation, won the third contested presidential election held by the IEEE, to become the Institute's 1978 President. Dr. Getting was the Board of Directors' candidate. Elected 1978 Executive Vice President was C. Lester Hogan.

Of the three constitutional amendments on the ballot, Proposition One, calling for earlier submissions of all Board-nominated election candidates, was passed. Proposition Two, which consolidated all regions outside the U.S. into one region, and Proposition Three, requiring dues or assessment increases to be passed by a majority vote of the membership, were both defeated.

Also elected were five Regional Directors and four Divisional Directors. For election details see December The Institute.



A WORD FROM IEEE'S PRESIDENT ELECT

Now that the election is over, I look forward with anticipation toward contributing to the solutions of problems facing the IEEE. Consistent with the tradition of IEEE, I will stress

the importance of scientific and engineering advancement through publications, meetings, seminars, and continuing education. I also

plan to address the professional problems of the U.S. engineer. The most important issues are those that affect the employment opportunities for engineers to which an expanding economy coupled with a growth in electronics and use of electric equipment can contribute. In particular, the energy crisis gives us all an opportunity at conservation, more efficient use of electric power, and alternate sources of energy. The IEEE, with its solid base, is in a strong position to help both its membership and the public.

Ivan A. Getting



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BoD (cont'd.)

other things, calls for the elimination of the industrial exemption in state laws as one means of achieving broadened registration of engineers. The recently revised registration policy statement has met with considerable controversy. The Board's action to hold it in abeyance was precipitated by a Computer Society resolution calling for the Board to withdraw the current version of Policy 7.3 altogether and revert to the prior version, which merely recommended the registration of engineers.

In other actions, the Directors voted to restructure USAB to give the Board greater control of USAB's makeup. This involved a revision of Bylaw 310.2 relating to USAB's composition. The responsibility for choosing USAB's six at-large members was transferred from the Vice President for Professional Activities (with the concurrence of the elected members of USAB) to the Board of Directors (aided by recommendations from IEEE's Nominations and Appointments Committee).

The Board also voted to place before the membership on the 1978 ballot a referendum on the concept of a President-Elect. 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, he [the elected IEEE President] shall be the President-Elect and Executive Vice President. During the second year following election, he shall serve as President."

Finally, the Board took action in two areas related to professional activities: It voted to withhold approval from a USAB proposal to establish an IEEE political action fund; and it postponed action that would create formal IEEE procedures for handling matters of engineering ethics. Implementation procedures for IEEE's Code of Ethics had been proposed by USAB's Ethics Task Force and by the Board of Directors' newly created Committee on Member Conduct.

The next scheduled meeting of the Board of Directors will be held February 18-20, probably in Miami, Fla.

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.

EE's READERS RESPOND

According to the survey published in the October issue of Electrical Engineering, the general preponderance of survey respondents report that they read the entire issue and they feel that the quality of the news coverage and the inserts is satisfactory. Readers think that IEEE should publish both The Institute and Electrical Engineering, and they feel EE warrants its annual budget allocation.

Of the 3823 reader surveys mailed, 262 had been returned by late November. Answering that "I generally read the entire issue" were 67 percent of the respondents. EE's news coverage was judged satisfactory by 59 percent of the readers, excellent by 27 percent; similarly, the inserts were judged satisfactory by 60 percent of the respondents, and excellent by 23 percent. Only 2 percent of the respondents felt the news coverage or the inserts to be of poor quality.

While 39 percent of the readers said IEEE should publish both EE and The Institute, half that number, or 19 percent, felt it should publish The Institute alone, and half again, or 10 percent, favored publication of EE only. A full 30 percent of the readers had not made up their minds on this issue.

Fifty-six percent of the readers felt that EE is worth its annual publication cost. Only half as many, 28 percent, said it isn't worth the cost.

Most of the readers who took the time to respond to EE's survey had read the publication for four or more years, and most were either Group/Society officers, Section officers, or Committee officers. All of the reader responses and comments received will be useful in charting the course Electrical Engineering will follow in future issues.

USAB NEWS

Employment guidelines for engineers were strengthened in a 1976 action by the IEEE Board of Directors. This initial action, and a continued participation by the USAB on the two intersociety ad hoc committees on review and implementation, have led to a substantive

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Contact: Emily Sirjane

Fellow Committee

IEEE FELLOWS ELECTED AS OF JANUARY 1, 1978 GEOGRAPHICAL LIST BY SECTION AND SUBSECTION

BOSTON

Jonathan Allen	For contributions to the design of computer architecture for signal processing and to the synthesis of speech from text.
Jerome Freedman	For contributions to the development of radar systems.
Robert J. Mailloux	For contributions to enhancing the performance of phased array antennas.
Frederic R. Morgenthaler	For contributions to the theory and applications of microwave magnetics.
John M. Osepchuk	For contributions to microwave technology and to microwave safety.
Charles M. Rader	For contributions to digital signal processing.
Ernst F. R. A. Schloemann	For contributions to the theory and development of microwave ferrite materials and devices.
Charles A. Zrakat	For technical management and contributions in the application of systems engineering to large military and civilian problems.

MERRIMACK VALLEY SUBSECTION

Joseph F. White	For contributions to the development of diode phase shifters for microwave array antennas.
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CENTRAL ILLINOIS

Franco P. Preparata	For contributions to coding theory.
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CENTRAL INDIANA

George N. Saridis	For contributions to the theory of self-organizing control systems.
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CENTRAL PENNSYLVANIA

David B. Geselowitz	For contributions to the application of electromagnetic theory in electrocardiography.
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CENTRAL VIRGINIA

Ernst O. Attinger	For pioneering applications of electrical engineering methods to medicine.
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CHICAGO

Wallace B. Behnke, Jr.	For contributions in developing economical nuclear power and the fast breeder reactors.
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CLEVELAND

Wen H. Ko	For leadership and contributions in the field of microelectronics for biomedical instrumentation.
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Yoh-Han Pao	For contributions to laser and electrooptic research and for leadership in engineering education.
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CONNECTICUT

Anthony J. DeMaria For pioneering contribution to acoustic-optics and picosecond pulse laser development.

FAIRFIELD COUNTY SUBSECTION

Lee L. Davenport For leadership in industrial research and advanced development.

Steward S. Flaschen For leadership in consumer, industrial, and component electronics development.

DALLAS

Carlos O. Love For contributions to utilizing alternate fuel resources and to creating an effective interconnected system.

DENVER

James A. Barnes For contributions to and leadership in measurements of time and frequency and the promulgation of standards.

EASTERN NORTH CAROLINA

Ralph A. Evans For contributions to the practice and advancement of reliability theory.

FORT WORTH

Mo-Shing Chen For contributions to education and research in power system engineering.

FRANCE

Michel H. Carpentier For pioneering work in the fields of radars and information processing.

Michel J. Pouard For contributions to the development and testing of high-voltage switchgear and to high-voltage and high-current testing.

GAINESVILLE

Fredrik A. Lindholm For contributions to transistor and solar cell modeling.

GERMANY (West)

Adolf Goetzberger For contributions to the understanding of semiconductor/oxide interfaces.

Dieter H. Kind For development of high-voltage measurement and test methods.

Hans Marko For contributions to digital communication transmission systems.

HAMILTON

John W. Bandler For contributions to computer-oriented microwave and circuit practices.

ISRAEL

Uziah Galil For the pioneering contribution to the establishment of a modern electronic industry in Israel.

ITHACA

Toby Berger For contributions to information theory and engineering education.

LEHIGH VALLEY

Robert W. Werts For contributions in the planning and developing of large-scale electric power systems.

NEW YORK

Gregory S. Vassell For contributions to the planning of reliable and economic electric power systems.

WESTCHESTER SUBSECTION

Frederick H. Dill, Jr. For contribution to semiconductor device and process research.

Alan B. Fowler For contributions to the understanding of charge carriers' behavior in inversion layers.

Merlin G. Smith For contributions to the development of large-scale integration.

NORTHERN VIRGINIA

Thomas F. Curry For the development of remotely controlled electronic reconnaissance systems.

Donald L. Feucht For contributions to semiconductor heterojunctions research.

Herman Garlan For the development of regulations to control radio frequency interference.

NORTH ITALY

Alessandro Alberigi-Quaranta For contributions and technical leadership in the fields of nuclear electronics and charge transport in semiconductors.

Pietro P. Lombardini For contributions to radar astronomy, artificial ion cloud communication, and far infrared radiometry.

NORTH JERSEY

Joseph A. Giordmaine For pioneering contributions to nonlinear optics.

Robert M. Lauver For contributions to ocean acoustic surveillance systems.

Gentaro Miyazaki For contributions to color television receiver development and leadership in international communications.

Neil J. A. Sloane For contributions to the theory of error correction in communication systems.

OAKLAND-EAST BAY

R. Carroll Maninger For contributions to the development of measurement techniques used in the nuclear and environmental sciences.

Chittoor V. Ramamoorthy For contributions to computer architecture and software engineering.

Shyh Wang For contributions to the theory and technique of integrated optics devices.

Sander Weinreb For contributions to instrumentation in radio astronomy.

OTTAWA

Robert M. Morris For contributions to the understanding of radio noise and corona on high-voltage transmission lines.

PHILADELPHIA

Milton Berkowitz For leadership and contributions to space communication and aerospace electronic systems development.

David Garfinkel For contributions to computer simulation of biological systems.

LONDON

Ion I. Inculet For contributions to the applications of electrostatics in mineral separation and gas cleaning.

LONG ISLAND

Howard Frank For contributions to large-scale network design and analysis.

MADISON

J. Leon Shohet For leadership in plasma science and engineering.

MAINE

Clark Nichols For contributions to and leadership in the design of computer-control systems for electric power applications.

METROPOLITAN LOS ANGELES

William H. Louisell For contributions to quantum statistical properties of radiation.

Jerry M. Mendel For contributions to system identification, state estimation, and their application to aerospace technology.

R. David Middlebrook For contributions to electronic circuit analysis.

Robert C. Tausworthe For contributions to communication theory and development of deep space communication and tracking systems.

MICHIANA

James L. Melsa For educational leadership in the information and control sciences.

Michael K. Sain For contributions to the theory of multivariable control systems.

MIDDLE and SOUTH ITALY

Giorgio Barzilai For contributions to the field of electromagnetic theory and to engineering education.

MILWAUKEE

Gustav W. Staats For contributions to the development, design, and construction of very large conductor-cooled steam turbine generators.

MONTREAL

H. Brian White For contributions to the development of extra-high-voltage transmission line structures.

NEW JERSEY COAST

Ta-Shing Chu For contributions to dual-polarization radio transmission, and to propagation of radio and light waves in precipitation.

Erich Hafner For contributions to the improvement of piezoelectric crystals and frequency control devices.

John O. Limb For contributions to efficient coding of color and monochrome video signals.

Peter W. Smith For contributions to tunable gas lasers.

PHILADELPHIA (Continued)

Fred Haber For contributions to electromagnetic compatibility measurement techniques.

Anthony H. Lind For technical leadership in the design and product development of video tape recorders and color television cameras.

Walter W. Weinstock For contributions to radar systems and for leadership in development of modern air defense systems.

PITTSBURGH

John C. Botts For contributions to the development, testing, application, and standardization of insulation systems for rotating apparatus.

Stephen W. Director For pioneering work in computer-aided circuit design and for contributions to engineering education.

Ching-Chung Li For contribution to biocybernetics.

PORTLAND

Stig A. Annestrand For leadership and contributions to the art of high-voltage ac and dc power transmission.

PRINCETON

Harvey J. Brudner For leadership in the development and application of computers and electronic, audio-visual systems in education and training.

George Karady For advancement in the art of high-voltage dc transmission.

PROVIDENCE

Maurice Glicksman For contributions to the understanding of transport, optical, and plasma phenomena in semiconductors.

ROCHESTER

John V. Bouyoucos For contributions to the field of hydrodynamic energy conversion devices.

SAINT LOUIS

William S. C. Chang For contributions to optoelectronics and integrated optics.

Robert W. Harmon For developments in UHV insulation and suspension systems.

Charles M. Wolfe For contributions to the development of high-purity gallium-arsenide for microwave and optical device applications.

SAN DIEGO

Harold W. Sorenson For contributions to control, estimation, and optimization of stochastic dynamic systems.

SAN GABRIEL VALLEY

Marvin K. Simon For analytical contributions to communication system design.

SANTA CLARA VALLEY

Gilbert F. Amelio For pioneering technical and managerial contributions in the field of charge-coupled devices.

Gene F. Franklin For leadership in engineering education and for outstanding contributions in control theory and applications.

James E. Solomon For contributions in research, design, and application of analog integrated circuits.

SANTA MONICA BAY

Wesley W. Chu For contributions to multiplexing techniques of and file allocation in computers.

Alan N. Willson, Jr. For contributions to circuit and system theory in the area of nonlinear circuits.

SASKATCHEWAN

Roy Billinton For contributions to development and education in power system reliability evaluation.

SCHENECTADY

Donald N. Ewart For pioneering contributions to the analysis of the control and dynamics of large-scale electric power systems.

Fred E. Luborsky For contributions toward the theoretical understanding of magnetic properties and the practical utilization of this knowledge.

Jennings A. Massingill For contributions to the design of large steam turbine generators.

John M. Ungrill For development of interactive simulation methods and analysis techniques for electric power systems.

David M. Willyoung For contributions to the design of large steam turbine-driven generators.

SEATTLE

John M. Fluke For contributions to electronic instrumentation.

SOUTH BAY HARBOR

David W. Borst For contributions in the application of power semiconductor devices.

SOUTHEASTERN MICHIGAN

William G. Meese For research management in the electric power industry.

SOUTHERN ALBERTA

Thomas H. Barton For contributions to the field of rotating machine theory and electronic drive dynamics.

SOUTH PLAINS

Magne Kristiansen For contributions to plasma technology and pulsed power.

SUSQUEHANNA

Robert C. Byloff For contributions and technical leadership in applied magnetics and in the development of ultra-high-speed rotating machinery.

SWITZERLAND

George S. Moschytz For contributions to the theory and the development of hybrid-integrated linear communication networks.

TOKYO

Morio Akiyama For contributions to the analysis of variable parametric networks and applications of the method to power engineering and electrodynamics.

Hiroshi Inose For contributions to the development of digital switching, digital modulation, and road traffic control systems.

Senichi Masuda For contributions to the understanding and application of electrostatic precipitation technology.

TOKYO (Continued)

Kunio Nakanishi For contributions to the understanding of switching phenomena in high-power switchgear.

Kenji Ogata For contributions to and leadership in telecommunications research and development.

Yukio Saito For contributions to the understanding of electrical insulating materials.

Isao Someya For contributions in the use of sampling theory in development of microwave communications systems.

TORONTO

Edward J. A. Davison For contributions to control system theory.

Kenneth C. Smith For contributions to digital circuit design.

TUCSON

Douglas J. Hamilton For contributions to education in solid-state electronics.

Lawrence P. Huelsman For contributions to electrical engineering education and circuit theory.

TWIN CITIES

Belle A. Shenoi For contributions to the theory of active filters.

UNITED KINGDOM and REPUBLIC of IRELAND

Harvey F. Schwarz For contributions to electronic navigation systems.

VANCOUVER

Yao-nan Yu For contribution to the development of analysis and testing techniques applied to stability in large electric power systems.

VERMONT

W. David Pricer For contributions to the development of computer memory technology.

WASHINGTON

David F. Barbe For contributions to the theory, understanding, and development of charge-coupled devices.

Albert Brodzinsky For technical contributions and leadership in government electronics research.

Samuel J. Campanella For contributions to signal processing and satellite communications.

Judson C. French For contributions to the understanding and measurement of semiconductor devices and materials.

Irwin L. Lebow For contributions to satellite communications technology.

John B. Slaughter For contributions to the design of digital, sampled-data control systems.

Archer S. Taylor For leadership in the development of professional engineering procedures and standards for the cable television industry.

Leonard W. Thomas, Sr. For leadership in electromagnetic compatibility and development of interference measurement instrumentation and standards.

Leonard R. Weisberg For contributions in semiconductor compound device research.

Lawrence R. Whicker For contributions to the development of microwave and millimeter-wave nonreciprocal components.



United States Activities Board

THE GUIDING FORCE BEHIND THE GUIDELINES

In the late 1960's scores of engineers were laid off their jobs. Government contracts ended. There was no longer a demand for their services. They were told they weren't needed. No effort was made to relocate them. They lost their pension rights. It seemed grossly unfair.

Out of this experience grew the first set of Guidelines of Professional Employment for Engineers and Scientists. The guidelines were to benefit both the employee and the employer. It wasn't to be a one-sided situation. Each had a set of concerns and a set of responsibilities as well. Most of all, the guidelines created an ambience in which a dialogue could now take place between the two parties.

Someone could easily draw a cartoon depicting management and labor sitting on a see-saw each vying for the upper position. Where there are unions, this see-saw is in almost constant motion. In essentially nonunion situations it is apt to remain more static with management sitting on top -- unless some other means of "bargaining" exists. The guidelines enable the engineer or scientist to relate directly to the employer without the necessity of involving a third person. It retains the one-to-one relationship between employer and employee that the engineer feels is so important.

The original set of guidelines was established in January 1973. At the time it was generally understood that they were not to be considered final and complete in that form. They were to change with the times. In December 1976 IEEE decided that the time had come for some of those changes. At their December Board of Directors meeting they introduced a revised set of guidelines. They then told the Intersociety Guidelines Committee that they would formally adopt this new version unless the latter made some substantive move to update the original guidelines. The Committee met on April 2, 1976 and established an Ad Hoc Review Committee and an Ad Hoc Acceptance (Implementation) Committee.

In the months that followed, Committee members wrote to the original 31 endorsing societies soliciting comments and suggestions that would be helpful in the revision of the guidelines. Twenty-two replies were received, representing 12 (40%) of the societies. The Committee then took the various suggestions and formulated

a proposed second edition of the guidelines. This draft was distributed to the endorsing societies in early August 1977 for review. On October 14, 1977, a meeting was held in Washington, D.C. to discuss the new second edition and to begin the endorsement process. Additionally, attention would be focused on guidelines acceptance or implementation.

Fifteen of the 31 endorsing societies were represented at the meeting. Charles H. Samson, Jr., Chairman of the Guidelines Acceptance Committee outlined the day's agenda and John A. Babcock, Chairman of the Review Committee presented some background information. Basically, two questions confronted the group: 1) Should the Committee accept the second set of guidelines and not wait for more changes and 2) What should the voting procedure be? It was generally felt that the societies had had ample time to submit their suggestions. Unless a definite cutoff date was established there would be no end to the revisions. A vote was taken to see whether the societies wanted to freeze the document and let it stand in that form. Seven voted yes. Five voted no and two abstained. Some members felt the outcome would have been different if they themselves had been allowed to make some changes in the guidelines. After some discussion it was decided that Committee members would have a chance to do this -- as long as the changes were of a minor and not a substantive nature. Once these were made, a second vote was taken. This time they voted as members of the Committee (unofficially) on the document with its latest changes. It met with unanimous approval. Finally, a vote was taken to determine the societies' positions on the guidelines. Three voted affirmatively. One voted negatively. The rest abstained because their Boards of Directors had not yet met and indicated the dates of their next Board Meetings. The last one -- that of ASCE (American Society of Civil Engineers) is scheduled for April 26, 1978.

The next step would be to revise the guidelines to include these minor changes and reissue them to the endorsing societies once more for their approval.

With the three affirmative votes, the endorsing process had been set in motion. Hopefully, by the end of May it would be completed and the actual printing of the new version can take place.



Technical Activities Board

MAXIMUM RATES OF PER DIEM ALLOWANCES FOR TRAVEL IN FOREIGN AREAS

The maximum allowable per diem rates have recently been revised. This supersedes the insert in Electrical Engineering published in issue No. 69-2C, April 1977.

LOCALITY	MAXIMUM PER DIEM RATES	LOCALITY	MAXIMUM PER DIEM RATES	LOCALITY	MAXIMUM PER DIEM RATES
Afghanistan		Bolivia		Brunei	48
Bamiyan	\$ 39	Cochabamba	30	Bulgaria	58
Kabul	46	La Paz	45	Burma (e)	19
Other	23	Oruru	22	Burundi	50
Algeria		Santa Cruz	30	Cameroon	51
Algiers	84	Other	18	* Canada	
Other	56	Botswana	31	Baie Comeau	50
Andorra	30	Brazil		Banff (Alberta)	50
Angola		Belem	51	Calgary	55
Cabinda	34	Belo Horizonte	49	Chicoutimi (incl. Bagotville)	48
Other	30	Brasilia	53	Edmonton	52
Argentina	50	Manaus	49	Fort Churchill	55
Ascension Island	22	Recife	44	Frobisher Bay, Baffin I.	60
Australia		Rio de Janeiro	63	Great Bear Lake (Northwest Terr.)	70
Canberra	54	Salvador	49	Halifax	56
Melbourne	48	Sao Paulo	68	Inuvik (NWT)	64
Sydney	58	Other	40	Montreal	46
Other	44	British West Indies (See also Turks & Caico Is.)		Niagara Falls	50
Austria	51	Antigua (May 1-Nov. 30, incl.)	44	Ottawa	58
Azores	27	(Dec. 1-Apr. 30, incl.)	59	Port Cartier	50
Bahamas		Cayman Islands (Apr. 16-Dec. 14, incl.)	42	Quebec	52
Andros Island (May 1-Dec. 14, incl.)	48	(Dec. 15-Apr. 15, incl.)	64	St. John's, Nfd.	46
(Dec. 15-Apr. 30, incl.)	53	Dominica (May 1-Nov. 30, incl.)	29	Sudbury (incl. Falconbridge)	46
Nassau (May 1-Dec. 14, incl.)	53	(Dec. 1-Apr. 30, incl.)	33	Toronto	52
(Dec. 15-Apr. 30, incl.)	61	Montserrat (May 1-Nov. 30, incl.)	21	Trois-Riviers/Nicolet	48
San Salvador I. (May 1-Dec. 14, incl.)	57	(Dec. 1-Apr. 30, incl.)	33	Vancouver	58
Other (May 1-Dec. 14, incl.)	48	St. Christopher-Nevis-Anguilla (May 1-Nov. 30, incl.)	25	Victoria	42
(Dec. 15-Apr. 30, incl.)	67	(Dec. 1-Apr. 30, incl.)	32	Winnipeg	44
Bahrain	110	St. Lucia (May 1-Nov. 30, incl.)	25	Yellowknife (NWT)	64
Balearic Islands	27	(Dec. 1-Apr. 30, incl.)	47	Other	36
Bangladesh	46	St. Vincent (May 1-Nov. 30, incl.)	34	Canary Islands	27
Barbados (Apr. 16-Dec. 14, incl.)	46	(Dec. 1-Apr. 30, incl.)	44	Cape Verde, Rep. of	26
(Dec. 15-Apr. 15, incl.)	70	Virgin Islands (Br.) (May 1-Nov. 30, incl.)	25	Central African Empire	44
Belgium (Dec. 15-Apr. 15, incl.)	70	(Dec. 1-Apr. 30, incl.)	39	Chad	44
Antwerp	60	Other (May 1-Nov. 30, incl.)	25	Chagos Archipelago	12
Brussels	60	(Dec. 1-Apr. 30, incl.)	30	Chile	50
SHAPE/Chievres	49	(Mar. 16-Nov. 30, incl.)	88	China	
Other	36			Kaohsiung	38
Belize	30			Penghu Is.	18
Benin	50			Quemoy-Matsu	18
Bermuda (Dec. 1-Mar. 15, incl.)	60			Taipei	54
(Mar. 16-Nov. 30, incl.)	88			Other-Taiwan	30
				Peking	22

*Effective September 1, 1977

Essentially the second set of guidelines is not drastically different from the first. The same topics are covered: Recruitment; Terms of Employment; Professional Development and Termination and Transfer. Yet, the second edition seems stronger and better defined. As stated in the Foreword, the principles outlined in the first edition have been retained; but changes and additions have been made to increase clarity and reflect experience. Again, the guidelines should benefit both the employee and the employer. Specifically, the Foreword states: "It is anticipated that the Guidelines will continue to be used by employers in evaluating their own practices, by professional employees in evaluating their own responsibilities and those of their employers, and by new graduates and other employment seekers in evaluating their prospective employers."

The new guidelines should clarify some of the ambiguities regarding patents, control of proprietary information and the use of engineering titles. A distinction is made between evaluation of the employee for salary purposes and his evaluation in terms of his own standing within the company. Still, the second edition does not or will not answer all questions. No single document ever seems to accomplish this end. Where it fails, it is hoped that it will at least open up a discussion so that employer and employee can reach a mutually satisfying agreement.

Finally, the Foreword recommends viewing the guidelines as "desirable general goals rather than as a set of minimum standards." Once again the document is subject to periodic review by the endorsing societies so that it remains current with the times.

Committee members present at the October 14th meeting then turned their attention to another important consideration -- namely implementation of the guidelines. There was a realization that even the best guidelines in the world aren't going to do any good unless people know about them.

"Visibility is the key word," explained Chairman Samson. "Unfortunately," he continued "surveys have shown that many companies don't even know that the guidelines exist. Maybe this is due in part to the large volume of mail they receive."

The discussion turned to ways of possibly increasing guideline awareness. Suggestions included a film, a slide show, a logo. Basically, there were two considerations: What the Intersociety group as a whole could do and what the individual endorsing societies could do. It was felt that a film or slide show would reach a large audience and promote general interest in the guidelines. Specific production figures were mentioned. EJC (Engineers Joint

Council) tentatively volunteered to fund the initial cost of the film and slide presentation. Hopefully, they would recover their money through sale of copies to the individual endorsing societies.

Several additional approaches were suggested in a report prepared by the Committee on Guidelines Acceptance. At one point, Chairman Samson mentioned some of the things that have already been accomplished. Many societies have published articles on the guidelines for their journals or newspapers. Other societies have focused on students. NSPE (National Society of Professional Engineers) for example includes a copy of guidelines in approximately 30,000 kits distributed to seniors at colleges of engineering. The same NSPE in 1976 directed its attention to the employer in "an Employer Recognition Program." Award certificates are given to employers "who recognize that the guidelines provide desirable criteria for fair and equitable practices for both employees and employers."

In the future the Guidelines Implementation Committee and the individual endorsing societies will focus on the engineering student, the engineering educator, the employer and the employee in an all out effort to cover all fronts. They will encourage meetings on a local and national level to discuss the guidelines and their implications. Taking part in those meetings will be the people directly involved: the engineers and scientists, the employers, the students and the educators.

With these combined efforts, guidelines visibility ought to increase. Surveys have been conducted in the past to evaluate recognition and acceptance of the guidelines by employers and employees. The surveys have been done at random with no overall or constant format. Samson's committee suggests developing a standard survey that can be used by all the endorsing societies. These coordinated surveys, he feels, should be done periodically to measure progress.

At 3:30 p.m., the October 14th meeting adjourned. It had been a long day. Still, many accomplishments had been made. The endorsement process was initiated. Both Ad Hoc Committees had been extended with specific task assignments. A commitment had been made to look into guidelines acceptance and EJC had tentatively made an offer to assist with the funding of the film or slide show. Members of the committee could go home feeling pleased with what had been accomplished. In the months ahead, they can turn their attention to what still needs to be done. It's not the job of any one man or a single committee. It will take the cooperation and the effort of everyone to make the new guidelines a living, viable concept and reality.

LOCALITY	MAXIMUM PER DIEM RATES	LOCALITY	MAXIMUM PER DIEM RATES	LOCALITY	MAXIMUM PER DIEM RATES
Peking	1/ 40	Munich	53	Tokyo	5/ 73
Canton	29	Nurnberg	51	Other	46
Other	22	Stuttgart	59	Jerusalem	58
Cocos (Keeling) Is.	21	Tubingen	45	Jordan	
* Colombia		Wiesbaden	45	Amman	62
Bogota	40	Other	37	Agaba	62
Cali	46	German Democratic Republic		Other	22
Cartagena	36	Berlin (Eastern Sector)	3/ 37	Kenya	
San Andres I.	36	Other	4/ 55	Mombasa	40
Other	30		3/ 37	Nairobi	49
Comoro Islands	36		4/ 55	Nanyuki	35
Congo (Cap. Brazzaville)	30	Ghana	65	Other	20
Costa Rica	42	Gibraltar	33	Khmer Republic	26
* Cuba		Gilbert & Ellice Is.	30	Korea	
Guantanamo Bay	16	Greece		Pusan	36
Havana	75	Athens		Seoul	54
Other	12	(Dec.1-Mar.31, incl.)	40	Other	33
Cyprus	53	(Apr.1-Nov.30, incl.)	44	* Kuwait	130
Czechoslovakia	50	Thessaloniki		Lampedusa Island	31
Dahomey (See Benin)		(Dec.1-Mar.31, incl.)	31	Laos	33
Denmark (see also Faeroe Islands and Greenland)	68	(Apr.1-Nov.30, incl.)	28	Latvia	25
Dominican Republic		Other	26	Lebanon	46
La Romana		Greenland	26	Lesotho	28
(Apr.16-Dec.14, incl.)	58	Grenada		Liberia	
(Dec.15-Apr.15, incl.)	66	(May 1-Nov.30, incl.)	40	Monrovia	40
Santo Domingo	42	(Dec.1-Apr.30, incl.)	55	Other	27
Other	30	Guatemala	41	Libya	
Easter Island	46	Guinea (e)	49	Benghazi	38
Ecuador		Guinea-Bissau (formerly Portugese Guinea)	42	Tripoli	38
Guayaquil	45	Guyana	39	Other	22
Quito	40	Haiti		Liechtenstein	54
Other	33	Port-au-prince		Lithuania	25
Egypt (e)		(incl. Petionville)	42	Luxembourg	50
Alexandria	2/ 29	Other	26	Macao	47
Aswan	2/ 31	Honduras (see also Swan Is.)	43	Madagascar	47
Cairo	2/ 58	Hong Kong	62	Madeira Islands	37
Luxor	2/ 31	* Hungary		Malagasy Rep.-see Madagascar	
Other	2/ 19	(Mar.15-Jan.1, incl.)	52	Malawi	27
El Salvador	32	(Jan. 2-Mar.14, incl.)	47	Malaysia	40
Equatorial Guinea	26	Iceland		Maldives Islands	25
Estonia	25	(Oct.1-Apr.30, incl.)	42	Mali	
Ethiopia	32	(May 1-Sep.30, incl.)	57	Bamako	53
Faeroe Islands	34	India (e)		Other	31
Falkland Islands	21	Bombay	52	Malta	31
Fiji	47	Calcutta	42	Mauritania	
Finland	64	New Delhi	38	Nouadhibou	88
France		Other	30	Other	60
Cannes	48	Mauritius	39	Mexico	
Lyon	57	Mexico		Acapulco	
Nice	58	Indonesia		(Apr.15-Dec.15, incl.)	34
Paris (City of)	70	Jakarta	50	(Dec.16-Apr.14, incl.)	60
Paris (Environs)	70	* Iran		Can Cun/Cozumel	
(Comprised of: Essone, Hauts-de-Seine, Seine St. Denis, Val-de-Marne, Val d'Oise and Yvelines Departments)		Tehran	7-	(Apr.15-Dec.15, incl.)	48
Strasbourg	52	Other	61	(Dec.16-Apr.14, incl.)	54
Other	43	Iraq	55	Mazatlan	40
French Guiana	37	* Ireland	55	Mexico, D.F.	39
French Polynesia	59	Israel	48	Puerto Vallarta	48
French Territory of Afars and Issas	90	* Italy (see also Lampedusa I.)		Other	33
French West Indies		Bologna	50	Monaco	
(Apr.16-Dec.14, incl.)	60	Florence	62	(Oct. 20-Apr.1, incl.)	55
(Dec.15-Apr.15, incl.)	82	Genoa	48	(Apr. 2 -Oct.19, incl.)	91
Gabon	70	Leghorn	32	Morocco (e)	
Gambia, The	46	Milan	54	Casablanca	38
Germany		Naples	45	Rabat	34
Federal Rep. of Germany		Rome	54	Other	26
Augsburg	53	Sicily, Island of	45	Mozambique	27
Berlin (Western Sectors)	59	Taranto	40	Nauru	34
Bonn	59	Trieste	41	Nepal	
Bremen	45	Turin	54	Kathmandu	32
Cologne	66	Venice	52	Pokhara	32
Dusseldorf	59	Verona	44	Other	12
Frankfurt am Main (incl. Rhein Main AB)	59	Other	31	Netherlands	
Hamburg	66	Ivory Coast		Amsterdam	58
Hanover	53	Bonn	68	Rotterdam	58
		Other	40	The Hague	58
		Jamaica	57	Valkenburg NAS	58
		Japan (see also Ryukyus)		Other	46
		Fukuoka	75		
		Kyoto	69		
		Osaka-Kobe	69		
		Sapporo	69		

*Effective September 1, 1977

LOCALITY	MAXIMUM PER DIEM RATES	LOCALITY	MAXIMUM PER DIEM RATES	LOCALITY	MAXIMUM PER DIEM RATES
Netherlands Antilles		Somalia	29	Edinburgh	58
Aruba		South Africa	29	Glasgow	58
(May 1-Dec.14, incl.)	55	Southern Rhodesia	18	Inverness	58
(Dec.15-Apr.30, incl.)	81	South West Africa	35	Liverpool	45
Bonaire		Spain (see also Balearic Islands & Canary Islands)		London	58
(May 1-Dec.14, incl.)	40	Barcelona	39	Manchester	51
(Dec.15-Apr.30, incl.)	54	Bilbao	39	Newcastle Upon Tyne	39
Other		Madrid (incl. Getafe C.A.S.A. Getafe), Loeches POL Site, Torrejon AB)	41	Northern Ireland	42
(May 1-Dec.14, incl.)	53	Other	27	Nottingham	38
(Dec.15-Apr.30, incl.)	64	Spanish Sahara	28	Other	34
New Caledonia	50	Sri Lanka		Upper Volta	43
New Hebrides	52	Colombo	8/ 40	Uruguay	37
New Zealand	38	Kandy	8/ 20	Venezuela	
* Nicaragua	52	Other	8/ 14	Caracas	70
Niger		Sudan (e)		Other	47
Arlit	30	Khartoum	60	Viet-Nam	
Ayorou	30	Juba	27	Da Nang	18
Agadez	30	Kosti	18	Saigon-Cholon Areas	24
Dosso	30	Malakal	18	Other	14
Maradi	30	Port Sudan	27	Western Samoa	34
Niamay	43	Wau	18	Yemen (Aden)	19
Tanoua	30	Other	16	Yemen Arab Republic	
Zinder	30	Nigeria	58	Sana	28
Other	16	Norway	62	Other	26
Oman		Other	58	Yugoslavia (e)	
Muscat	100	Surinam	44	Skopje	23
Salalah	67	Swan Islands	12	Zagreb	37
Other	44	Swaziland	32	Other	35
* Pakistan (e)		* Sweden	69	* Zaire	
Karachi	72	* Switzerland	68	Bukavu	34
Islamabad/Rawalpindi	62	Syria (e)		Kinshasa	60
Lahore	60	Damascus	52	Kisangani	60
Other	46	Other	25	Kolwezi	60
Panama		Tanzania		Likasi	60
Colon	42	Arusha	42	Lubumbashi	80
Contadora	50	Dar es Salaam	42	Other	52
Panama City	48	Zanzibar	42	Zambia	51
Other	30	Other	22	Other Foreign Localities	12
Papua New Guinea	60	Thailand			
Paraguay	32	Bangkok	42		
Peru		Other	28		
Chilca Range	30	Togo	46		
Lima	46	Tonga	34		
Piura	29	Trinidad & Tobago			
Other	25	Tobago			
Philippines		(Apr.16-Dec.15, incl.)	60		
Manila	44	(Dec.16-Apr.15, incl.)	98		
Other	23	Other	53		
Poland (e)	6/ 40	Trust Territory of the Pacific Islands			
	7/ 21	Palau	39		
Portugal (see also Azores and Madeira Islands)		Saipan	43		
Alverca	37	Other	27		
Lisbon	37	Tunisia (e)			
Oeiras	37	Carthage	54		
Other	30	Gammarth	54		
Qatar	107	Lamarsa	54		
Reunion	51	Sidi Bou Said	54		
Romania	59	Tunis	54		
Rwanda	48	Other	33		
Ryukyus	51	Turkey			
San Marino	32	Ankara	46		
Sao Tome & Principe	23	Istanbul	43		
Saudi Arabia		Izmir-Cigli	30		
Dhahran	90	Other	28		
Jidda		Turks & Caicos Islands			
(Jan.16-Sept.30, incl.)	100	Grand Turk Island			
(Oct.1-Jan15, incl.)	180	(May 1-Nov.30, incl.)	32		
Riyadh	102	(Dec.1-Apr.30, incl.)	38		
Taif	97	Other			
Other	64	(Apr.15-Dec.14, incl.)	37		
Senegal	55	(Dec.15-Apr.14, incl.)	41		
Seychelles	40	Uganda	30		
Sierra Leone	43	U.S.S.R.	9/ 53		
Sinai Field Mission	42	United Arab Emirates	110		
Singapore	50	* United Kingdom			
Solomon Islands	34	Aberdeen	58		
		Bristol	36		
		Cambridge	36		

*Effective September 1, 1977

TRAVEL PER DIEM SUPPLEMENT 161
EFFECTIVE OCTOBER 1, 1977

LOCALITY	FROM DOLS 110	TO DOLS 125
BAHRAIN		
BELGIUM		
Antwerp	60	63
Brussels	60	72
Shape/Chievres	49	51
Other	36	38
CANADA		
London	---	43 New listing
Sept Iles	---	48 New listing
Sydney	---	46 New listing
Windsor	---	54 New listing
(no other changes for Canada)		
CONGO (Cap: Brazzaville)	30	70
(Effective September 30, 1977 by prior approval)		
CUBA	75	84
Havana		
(Effective September 9, 1977 through September 30, 1977 by prior approval and continuation of dols 84 rate on 10-1-77. No other changes for Cuba)		
ETHIOPIA	32	DELETE
Addis Ababa	---	32 New Listing
Other	---	20 New Listing
FRANCE	---	52 New Listing
Marseille		
(no other changes for France)		
GUINEA-BISSAU (formerly Portugese Guinea)	42	45
ITALY (see also Lampedusa Is.)	54	65
Milan		
(no other changes for Italy)		
LEBANON	46	57
LIBERIA	40	45
Monrovia		
(no other changes for Liberia)		
LUXEMBOURG	50	56
MALAYSIA	40	42
MOROCCO (e)	---	32 New Listing
Marrakech		
(no other changes for Morocco)		
NIGERIA	58	DELETE
Lagos	---	71 New Listing
Other	---	58 New Listing
SOUTHERN RHODESIA	18	52 New Listing
SUDAN (e)	60	73
Khartoum	27	29
Juba	27	55
Port Sudan		
(no other changes for Sudan)		
VENEZUELA	70	72
Caracas		
(no other changes for Venezuela)		
ZAIRE	60	66
Kinshasa		
(no other changes for Zaire)		

EXPLANATORY FOOTNOTES

- 1/ Only if required to use new wing of Peking Hotel.
 - 2/ The Maximum rate when travelers receive per diem in Egyptian pounds is 19.7 for Alexandria; 21.1 for Aswan and Luxor; 39.4 for Cairo and 12.9 for other locations.
 - 3/ Rate for those employees who have been given German Democratic Republic documentation. In addition, the rate for the first day in any hotel in the German Democratic Republic may be increased by the amount of a mandatory room reservation fee, if levied.
 - 4/ Rate for those employees who have not been given German Democratic Republic documentation. In addition, the rate for the first day in any hotel in the German Democratic Republic may be increased by the amount of a mandatory room reservation fee, if levied.
 - 5/ Tokyo, Japan: The term "Tokyo" is limited to that area falling within the following named special wards (KU): Chiyoda, Chuo, Minato, Shinjuku, Bunkyo, Taito, Sumida, Koto, Shinagawa, Merguro, Ota, Setgaya, Shibuya, Nakano, Suginami, Toshima, Kita, Arakawa, Itabashi, Nerima, Adachi, Katsushika, and Edogawa.
 - 6/ Maximum rate for personnel not accredited to Poland. For travelers receiving per diem in zlotys, the maximum rate is 1800 Zlotys.
 - 7/ Maximum rate for personnel accredited to Poland. For travelers receiving per diem in Zlotys, the maximum rate is 945 zlotys.
 - 8/ The maximum rates when travelers receive per diem in Sri Lanka rupees is 478 for Colombo, 239 for Kandy and 167 for Other.
 - 9/ The rate for the first day in any hotel in the U.S.S.R. may be increased by the amount of a mandatory room "reservation" fee, if levied. Also, when there is a required fee for processing requests for travel and hotel reservations in the U.S.S.R., the per diem rate may be increased by the amount levied.
- (e) This symbol denotes excess or near-excess currency countries. Travelers should minimize the use of U. S. dollars for travel and per diem expenses, e.g., purchase of foreign currency only from U. S. Government disbursing facilities and the elimination of any use of dollars.
- (*) One or more asterisks denote changes in rates effective as of the date or dates shown at the bottom of the page on which the change occurs.

Extracted from: Standardized Regulations
(Government Civilians,
Foreign Areas)
Department of State
Washington, D. C.



Contact: Mark M. Lucas

Membership Development Committee

NEW MD SERVICES, TOOLS AND RESOURCES PLANNED FOR 1978 ADMINISTRATOR NOW ABOARD

"EE" readers can look forward to an increasing level of MD support and activity from IEEE Headquarters in 1978. Initial efforts have already begun in order to provide more resources, tools and services to accomplish MD objectives...gaining new members and retaining and upgrading current members.

Included in the support efforts now being created are...

...A new simplified system for ordering the conference materials you need to operate a Membership Development booth at a local or Regional Convention...

...An attractive and functional literature and information display for use at meetings...

...A program of regular mailings intended to provide MD Chairmen with successful ideas and useful information for local programs...

...Revised and improved Membership Brochures providing more up-to-date information about IEEE and its services to members...

...Improved operational and administrative systems and procedures which will enable MD Staff to increase efficiency and immediacy to contact with field MD volunteers...

...Additional services now under consideration and on the drawing board.

We encourage not only the utilization of these new MD tools, but also your feedback on their effectiveness. It is our best guideline for their improvement and enhancement.

* * * * *

To carry out the staff Administration of the MD function, the position of Membership Development Administrator has been established and staffed within the Field Services Department. The newly selected MD Administrator is Mark M. Lucas. Since earning his BA from Duke University, Mark has worked in promotion and communication management for leading service organizations. You are encouraged to contact him for any assistance you may require. (At IEEE Headquarters, Telephone (212) 644-8080).



IEEE

continuing education services

GET ON TARGET
WITH
CONTINUING EDUCATION COURSES

INCREASING THE PRODUCTIVITY OF THE HUMAN MIND - 2 Day
Professor Irwin Gray

The development and working structure of the human mind are examined; how to use it more effectively to make future decisions. Participants are taken thru seven basic steps in the thinking mind dealing with the outside world to learn to ideate and process their thinking in an effective manner.

TUTORIAL ON OCEANOGRAPHIC APPLICATION FOR MICROCOMPUTERS, Thomas Williams and Stephen D. Rearwin

An over-view of design concepts and component selection criteria appropriate for development of Micro-Comp Based systems in Oceanographic Applications. Topics cover: Micro. Tech's (ADP roles in micro-comps); chip architectures; rep. processor families; software and development; and interconnection methods.

OSHA ELECTRICAL - 2 Day
Ralph Lee and William S. Watkins

The course deals with the OSHA Section of the US Dept. of Labor and its interpretation of the Nat'l Electric Code. Violations are often treated severely by OSHA and penalties can be harsh. Participants in this course will learn how to maintain safe plant conditions, prevent accidents, and thus avoid penalties by OSHA.

PHASE-LOCKED LOOPS: DESIGN AND APPLICATION - 1 Day
Floyd M. Gardner and Eric Klapper

The course covers a rapid tour of the design principles and shows you the main points that experience has revealed to be important. After a brief fundamental lecture, selected applications show how Phase-Locked Loops can be applied in common esoteric ways.

3-DAY MICROPROCESSOR COURSE
William Eccles and Associates

An intensive hands-on course in programming a Micro-processor in machine language. Each student uses a personal computer which can be taken home at the end of the course. Extensive laboratory programming exercises are available. The Motorola M6800 Microprocessor family is the base unit used.

LINEAR INTEGRATED CIRCUIT APPLICATIONS - 5 Day
Robert R. Atherton

An intensive instruction of the application of Linear Integrated Circuits, particularly Operational Amplifiers. An important discussion features a working model of various circuits demonstrating the theoretical and practical aspects.

PRINCIPLES OF SAFE OPERATION OF MEDICAL ACCELERATORS AND DIAGNOSTIC X-RAY SYSTEMS - 1 Day
Dr. Paul L. Carson, Ph. D.

The course will acquaint engineers and scientists with basic principles and engineering sophistication of modern diagnostic X-ray equipment and radiation therapy accelerators, and cover basic safety considerations.

ENERGY CONSERVATION IN INDUSTRY - 2 Day
Dr. Herbert M. Eckerlin

Participants in this course, upon completion, will be able to establish an effective energy conservation program, following procedures in NBS Handbook 115, and to assess its costs and benefits. They should be able to save their company 10% to 20% of their energy bill.

ENGINEERING ECONOMICS - 2 Day
Dr. William G. Sullivan

Participants in this course will gain a working knowledge of the concepts and techniques of economic evaluation required to compare engineering alternatives in equipment and facilities selection, new manufacturing processes, plant expansion and product redesign.

Please review this list of courses and indicate your choices on the next page, or telephone Vincent J. Giardina - (201) 981-0060 ext. 174 or 177.

Computer and Information Sciences

1. CAMAC - 1 Day
2. Electronic Information Processing - 2 Days
3. Computer Aided Filter Design - 1 Day
4. Computer Networks - 1 Day
5. Intro to Microprocessors - 1 Day
6. Microprocessors Seminar - 2 Days
7. Microprocessors "Hands On" - 5 Day
8. Minicomputers - 2 Days
9. Mini/Microcomputer Applications - 1 Day
10. Microprocessor Workshop with a Take-Home Microprocessor (MEK6800D2) - 3 Days

Electrical and Electronics Engineering

11. Infrared Testing - 2 Days
12. Integrated Circuits - 5 Days
13. Numerical and Asymptotics Techniques for Electromagnetics and Antennas - 5 Days
14. National Electrical Safety Code - 1 Day
15. Osha Electrical - 2 Days
16. Energy Conservation in Industry - 2 Days

Business and Management

17. Communicate for Results - 1 Day
18. Converting Your Ideas Into a Profitable Business - 1 Day
19. How to Analyze and Solve Organizational Problems - 2 Days
20. How to Start a Business and Make it Grow - 1 Day
21. The John C. Crystal Life/Work Planning Process - 1 or 2 Days
22. Managing Your Career Assets - 2 Days
23. Basic Project Management-Planning, Scheduling and Control - 2 Days
24. Engineering Economics - 2 Days

Communications

25. Engineering Considerations for Microwave Communication Systems - 3 or 5 Days
26. Applied Principles of Cost-Effective Control of Interference and Hazards (in the Non-Military Domain) - 2 Days

Power

27. Introduction to Solid State Power Electronics - 2 Days
28. Power Systems Planning - 2 Days
29. Power Systems Relaying - 2 Days
30. Power Systems Interconnections - 2 Days
31. Fundamentals of Applications of Protection Relays - 2 Days
32. Protective and Grounding of Distribution systems - 2 Days
33. Transient Phenomena in Power Systems - 2 Days

USE THIS FORM TO COMMUNICATE WITH US

Please check the subjects of interest to you or your Region, Group/Society, Section or Chapter members. Complete the remainder of this form giving us your name, address and telephone number and return it to us today. The stronger our lines of communication the more viable programming we can do for you.

Yes I am currently receiving CE Newsletter. I would like my colleague _____ to be placed on your mailing list. His address is _____

My Education Coordinator is:
 Name _____
 Address _____
 City _____ State _____ Zip _____
 Telephone No. _____

I have reviewed your 1977 Short Course Catalog and feel that we should develop additional courses such as:

 Course Title

 Course Title

 Course Title

Call me at _____
 I am interested in an EAB-sponsored course for my unit: or
 "in-house" course for my company

I am interested in receiving a copy of your 1977 Course Catalog.
 I am interested in programming a short course for Spring 1978 Fall 1978

Yes, I can participate in your TRAVELLING INSTRUCTOR program. Please consider me for the following locations:
 _____ location _____ date
 _____ location _____ date
 _____ location _____ date

Please print or type
 NAME _____
 Section Affiliation _____
 Company _____
 Address _____
 City _____ State _____ Zip _____
 Company Phone _____
 Home Phone _____
 I have attended other IEEE Short Course programs.

USAB NEWS (cont'd.)

revision of the first issue of the intersociety employment guidelines. The Intersociety Guidelines Committee met October 14, 1977, to initiate the process of endorsement of the guidelines by the 31 endorsing societies. See the insert on pp. 2I-2J for a background report on the employment guidelines revisions.

Age discrimination was the subject of a three-day conference jointly sponsored by USAB and the National Science Foundation, and held December 7 through 9 in Arlington, Va. The conference, entitled "Discrimination or Utilization: The Engineer at Mid-Career," had a dual purpose: to raise public awareness of the age discrimination problem to which today's engineer is particularly susceptible, and to identify potential courses of action by industry, the Government, and professional societies to reduce the waste of human resources that results from age discrimination.

Up-to-date information on salaries of engineers will be found in "The IEEE 1977 U.S. Membership Salary and Fringe Benefit Survey," a USAB publication available as of mid-December. The two-volume booklet can be ordered from the IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854.

Call USAB's Information line, (202) 785-2180, to keep up with profession-related news.

PUB NEWS

IEEE Press has published two new books. "Digital Signal Computers and Processors," edited by Andres C. Salazar, is an up-to-date compilation of 44 selected papers dealing with the hardware aspects of digital signal processing. The emphasis is on the architecture and applications of high-speed computers and processors that implement digital signal algorithms. The 352-page volume, sponsored by the IEEE Computer Society, and the Acoustics, Speech and Signal Processing Society, is priced at \$12.95 for the paperbound member edition; clothbound \$25.95 (\$19.45 for IEEE members). "Systems Engineering: Methodology and Applications," edited by Andrew P. Sage, provides an overview of systems engineering in 38 reprinted papers. The 408-page volume, sponsored by

the Systems, Man and Cybernetics Society, is priced at \$14.95 for the paperbound member edition; clothbound \$29.95 (\$22.45 for IEEE members). Both books can be ordered postpaid from the IEEE Service Center, 445 Hoes Lane, Piscataway, N.J. 08854. Payment should accompany the order.

Spectrum January will offer a review of technology in 11 key areas of electrical engineering. This fourth annual technology update explores the major developments during 1977 in hardware and software, looking to identify ongoing trends. Of particular interest are the articles covering the use of electronics to automate in the industrial/manufacturing area; developments in biomedical electronics such as CAT scanners and ultrasonic diagnostic equipment; and the burgeoning area of consumer electronics, from electronic games to microwave ovens and home appliance controls.

Time trials for entrants in Spectrum's Amazing Micro-Mouse Contest" will be held in June 1978, at the National Computer Conference at Disneyland, Calif. The contest challenges Spectrum readers to create self-contained electronic units capable of negotiating a "mystery maze." For further information, contact Roger Allan at Headquarters.

CONVENTION NEWS

At MIDCON's debut appearance this November in Chicago, Ill., several IEEE entities, including Field Services, Membership Development, Publications, Educational Activities, Technical Activities, and Spectrum, joined forces in one enormous exhibition booth. This effective united-front presentation will be repeated at ELECTRO '78 and WESCON '78.

The WESCON '78 Professional Program Committee is looking for high-quality professional proposals. Interested participants should send session proposals to the Wescon Professional Program Committee Chairman, Joe Statsinger, at 445 Hoes Lane, Piscataway, N.J. 08854.

RAB NEWS

Winding up 1977, all Sections are reminded of the Annual Meeting Reports and Financial Statements that are compiled on the basis of year-end data. To insure rebate credit, the reports and statements are due at Headquarters.

(continued p. 4, col. 1)

RAB NEWS (cont'd.)

ters not later than February 1, 1978 (Bylaw 402). Also, names of all new officers and committee chairmen taking office on January 1 should be reported to the Field Services Department promptly. At its November 16 meeting, the Regional Activities Board approved its 1978 budget of \$1078k, incorporating a Section Rebate Schedule to provide the same parameters of support as in 1977. The rebate schedule, with clarifying amendments, had been approved by the Board of Directors at its November 12 meeting.

Speakers and tours information is wanted by the Field Services Department for its annual Directory of Speakers and Tours. Names and addresses of recommended speakers and tour contacts are sought through the annual meeting report forms provided to all Sections, Chapters, and Branches.

Mail coordination to amend the proliferation of paper that inundates Section Chairmen is under way. The Field Service Department has supplemented its regular monthly mailing and is seeking to consolidate most mail sent independently to Section, Council, and Area Chairmen in its scheduled biweekly mailings.

The Planning and Priorities Committee has been established by RAB to review program and financial planning and priorities of the geographical units in terms of their missions, and the establish mechanisms for long-term planning. The Committee seeks interested Section and Chapter Chairmen to work on developing the role of this committee, and its two-four-year plan of activities, within the geographic framework of the Institute. For further information, contact RAB Finance Chairman Cyril Tunis, Endicott, N.Y., (607) 755-4914.

STUDENT NEWS

IEEE Vincent Bendix Award Proposals were submitted this year in record numbers, due to the support and promotional efforts of the IEEE leadership. The Student Services Department hopes the 1978 Student Papers Com-

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

NEW FELLOWS

The Board of Directors has honored 129 members by electing them Fellows of the Institute. The names of the new Fellows and their citations appear as an insert on pages 2A-2H. The newly elected Fellows have been requested to advise IEEE by December 30, 1977, whether they would like to have their certificates presented by the local IEEE Section or by an IEEE Group or Society. Soon after that date, the certificates will be furnished to the designated unit of the Institute for presentation at the appropriate ceremonies.

Fellow nomination kits for future nominations or for resubmission of prior nominations are available upon request to the Staff Secretary of the Fellow Committee at Headquarters.

CHAPTER/SECTION NEWS

The Industrial Applications Chapter of the Columbus Section was established.

The Joint Industrial Electronics & Control Instrumentation/Computer Chapter of the Lehigh Valley Section was established.

The Joint Industrial Electronics & Control Instrumentation/Industry Applications Chapter of the Connecticut Section was established by merger by the former single Chapters.

The Kingdom of Thailand Section was established.

Centerfold inserts		
Canary--	Newly elected Fellows	2A-2H
Blue--	USAB: Employment guidelines	2I-2J
Green--	TAB: overseas travel allowance rates	2K-2N
Gray--	Membership Development Committee news	2O-2P
Pink--	Continuing education	2Q-2R



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.

345 EAST 47th STREET, NEW YORK, NEW YORK 10017

January 23, 1978

DIRECT NUMBER
(212) 644- 7759

TO: BOARD OF DIRECTORS
(FEBRUARY 19-20, 1978 MEETING)

FROM: ROBERT K. ASDAL, DIRECTOR - FIELD SERVICES
NEIL D. PUNDIT, SECRETARY - TAB
R.K. Asdal
NDD

SUBJECT: VALUE OF ELECTRICAL ENGINEERING

At the July 19, 1977 meeting of the BOD (Minute Item 34), the RAB and TAB were requested to make a survey of their respective units to determine the value of ELECTRICAL ENGINEERING. This survey was designed and distributed by the SPECTRUM Staff in the October 1977 issue of ELECTRICAL ENGINEERING.

The results indicate an interest in and a continued need for a Management Newsletter. ELECRRICAL ENGINEERING, the survey indicated, has considerable value and should be continued. The analysis of the results published in the December 1977 issue is reproduced below for your information.

EE's READERS RESPOND

According to the survey published in the October issue of Electrical Engineering, the general preponderance of survey respondents report that they read the entire issue and they feel that the quality of the news coverage and the inserts is satisfactory. Readers think that IEEE should publish both The Institute and Electrical Engineering, and they feel EE warrants its annual budget allocation.

Of the 3823 reader surveys mailed, 262 had been returned by late November. Answering that "I generally read the entire issue" were 67 percent of the respondents. EE's news coverage was judged satisfactory by 59 percent of the readers, excellent by 27 percent; similarly, the inserts were judged satisfactory by 60 percent of the respondents, and excellent by 23 percent. Only 2 percent of the respondents felt the news coverage or the inserts to be of poor quality.

While 39 percent of the readers said IEEE should publish both EE and The Institute, half that number, or 19 percent, felt it should publish The Institute alone, and half again, or 10 percent, favored publication of EE only. A full 30 percent of the readers had not made up their minds on this issue.

Fifty-six percent of the readers felt that EE is worth its annual publication cost. Only half as many, 28 percent, said it isn't worth the cost.

Most of the readers who took the time to respond to EE's survey had read the publication for four or more years, and most were either Group/Society officers, Section officers, or Committee officers. All of the reader responses and comments received will be useful in charting the course Electrical Engineering will follow in future issues.