



WELCOME NEW IEEE UNITS

- The Computer Chapter of the Israel Section was established on May 25, 1981.
- The Communications Chapter and the Vehicular Technology Chapter of the Dallas Section were changed from single Chapter status to Joint Chapter status on May 29, 1981.
- The Saudi Arabian Section was established on June 5, 1981. The territorial limits of this Section are defined as follows: The national boundaries of Saudi Arabia.
- The Kharagpur Subsection of the Calcutta Section was established on June 5, 1981. The territorial limits of this Subsection are defined as follows: The District of Midnapore in the State of West Bengal (India).
- The Hyderabad Subsection of the Bombay Section was established on June 5, 1981. The territorial limits of this Subsection are defined as follows: The State of Andhra Pradesh in India.
- The second Chapter of the Electromagnetic Compatibility Society of the Denver Section to be known as the Electromagnetic Compatibility/Littleton Chapter was established on June 8, 1981.
- The Computer Chapter of the Northern Virginia Section was established on June 18, 1981.
- The Joint Geoscience & Remote Sensing Chapter, encompassing the Oakland-East Bay/Santa Clara Valley Sections, with the Oakland-East Bay as the Parent Section, was established on June 18, 1981.
- The Engineering Management Chapter of the Sao Paulo Section was established on June 25, 1981.
- The Joint Antennas and Propagation/Electron Devices/Microwave Theory and Techniques Chapter of the Utah Section was established on June 29, 1981.
- The Education Chapter of the Tokyo Section was established on July 1, 1981.
- The Quantum Electronics and Applications Chapter of the Dallas Section was established on July 7, 1981.
- The Engineering Management Chapter of the Milwaukee Section was established on July 17, 1981.
- The Nuclear and Plasma Sciences Chapter of the Tokyo Section was established on July 20, 1981.

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During the Annual Awards Presentation in New York we snapped this photo of seven Institute Presidents. *Left to Right* Dr. Leo Young IEEE — 1980; Mr. Donald G. Fink IRE — 1958; Mr. Arthur P. Stern IEEE — 1975; Mr. Robert H. Tanner IEEE — 1972; Mr. Joseph K. Dillard IEEE — 1976; Dr. Donald B. Sinclair IRE — 1952; Dr. Richard W. Damon IEEE — 1981; Dr. Ernst Weber IEEE — 1963.

NEWS SUMMARY

NEW AND REVISED BYLAW CHANGES AND POLICY STATEMENTS

At its June meeting, the Board of Directors adopted the following New and Revised Bylaws and Policies. For details on these changes please contact the respective functional department at headquarters and request ADDENDUM #2 to the 1981 Bylaws.

Bylaws:

109.5 — Dues, Fees and Regional Assessments. The clarification of conditions of unemployment which allow members to pay one-half of the annual dues, fees, regional assessments, and subscriptions.

307.4 Publications Board. To provide that the Editor of THE INSTITUTE serve as nonvoting Chairman of THE INSTITUTE Editorial Board.

310 — United States Activities Board. The organization of USAB including methods for appointments to that body.

311.12 — Individual Benefits and Services Committee (IBSC). To clarify the responsibilities and coordinating role of the IBSC relative to programs for individual member benefits and services.

302.4 — Executive Committee. The revisions set forth the long established practice that, as a general rule, all Executive Committee decisions can be overruled by the Board of Directors, and further set forth an exception when a specific Bylaw takes precedence over the general rule.

311.7 — *Nominations and Appointments Committee*. To more clearly define responsibilities of the Nominations and Appointments Committee and include the Past Chairman as a member of the Committee.

311.8 — *Tellers Committee*. Reflects what are considered to be traditional functions of a Tellers Committee.

311.13 — *Credentials Committee*. Clearly defining the jurisdiction and responsibilities of the Credentials Committee and the role of the Executive Committee with respect to the Credentials Committee determinations.

313.11 — *Nominations and Elections*. Clarifying the role of the Tellers Committee in conformity with Bylaw 311.8.

315.2 — *Amendments*. The traditional functions of a Tellers Committee, and identifying the date of adoption of an approved Constitutional amendment.

315.3 — *Amendments*. (NEW) Provides the interpretation of the IEEE Constitutional amendment balloting.

305.8 — *Society and Other Awards Committee*. Changing the name of the Committee to Awards Planning and Policy, and providing a clearer definition of the responsibility of this Committee of the Awards Board.

311.11 — *Audit Committee*. Modifications to indicate that the function of the Audit Committee is to address matters which substantially impact the finances of the Institute.

Policy Statements:

6.12.A (1) — *Guidelines for IEEE Magazine Publications*. Specifies that a request for PUB approval of a Magazine be accompanied by a three-year financial plan.

6.13.A. — *Requirements for Starting New Publications*. Specifies that requests for approval of new publications include scope, need, administrative and editorial responsibility, as well as a three-year financial plan.

At the August meeting of the Board, the following New and Revised Bylaws and Policies were adopted. For details on these changes please contact the respective functional department at headquarters and request ADDENDUM #3 to the 1981 Bylaws.

Bylaws:

109.1 — *Dues, Fees and Regional Assessments*. Revisions relative to Society fees for Student members. Adopted as recommended by TAB and the Executive Committee.

305.14 — *Presentation of IEEE Awards*. Provides for announcement of the Medal of Honor and the IEEE Major Annual Medal recipients at relevant Society, Section and Regional meetings, and moved for their adoption, subject to editorial changes to be incorporated by staff.

106.2, 106.3, 106.5, 107.2, 304.2, 308.2, and 311.1 — *Transfer of Admission and Advancement Committee to RAB*. The proposal to transfer the operational functions of the Admission and Advancement Committee to RAB was approved in principle, with all related policy decisions to be retained by the Executive Committee. Action on proposed revisions to be deferred until the December meeting, pending further necessary revisions.

403.5 (*Councils*), 404.5 (*Sections*), 405.4 (*Subsections*), and 406.12 (*Chapters*). Provides for uniformity in the consecutive terms of office for Council, Section, and Chapter officers. Recommendation that such terms be limited to three years with extensions beyond that period to be approved under rulings proposed by RAB.

306.1 — *Educational Activities Board*. Clarifies the EAB membership of the chairman of the Electrical/Electronics Engineering Technology Department Heads Association (if an IEEE member).

Policy Statements:

9.19 — *Use of Robert's Rules of Order*. At meetings of the Board of Directors, Executive Committee, and all IEEE Standing Boards and Committees, unless specified otherwise by the Constitution, Bylaws or Statement of Policy and Procedure, or unless otherwise agreed upon by the respective members thereof, the rules of procedure shall be Robert's Rules of Order.

12.5 — *Publication of Results of Annual IEEE Elections*. The IEEE President or an individual designated by the President shall make a public announcement of the results of the IEEE elections and referenda, which shall be published, with counts, in the first available issue of IEEE SPECTRUM or THE INSTITUTE.

TECHNICAL ACTIVITIES NEWS

The Power Engineering Society annual awards were presented at the Summer Power Engineering meeting in Portland, Oregon in July. The recipients are:

Power-Life Award Dr. Merrill Eisenbud

Uno Lamm High Voltage

Direct Current Award . . . Dr. Erich Uhlmann

The United States Activi-

ties Board Award for

Professionalism Hilton U. Brown, III

The Outstanding Chapter

Award The Boston Chapter

The Prize Paper Award Anthony F. Armor

"Transient Three-Dimensional, Finite-Element Analysis of Heat Flow in Turbine-Generator Rotors"; and to

Jorge F. Dopzso, Guillermo Irisarri and Alberto M. Sasson

"Real-Time External System Equivalent for On-Line Contingency Analysis."

The Working Group

Recognition Award The Working Group on Insulator Contamination

OPPORTUNITY FOR IEEE MEMBERS TO APPLY FOR ENGINEERING RESEARCH INITIATION GRANTS ANNOUNCED BY THE ENGINEERING FOUNDATION

The Engineering Foundation has announced the availability of Engineering Research Initiation Grants for 1982-1983.

A maximum of three \$16,000 grants will be awarded on a competitive basis to members of each Founder Society for proposed research projects in fields of mutual interest to the Founder Society and to the engineering Foundation.

The grant program is aimed at the starting full-time engineering faculty member who is without research financial support. Particular encouragement to apply given to faculty at the beginning of an academic career and with industrial-type experience.

For further information on these grants, please contact Dr. Irving Engelson, Staff Director, Technical Activities, at Corporate Headquarters.

Irving Engelson
212-644-7863



Membership Development

Contact: Bill Hunter
(201) 981-0060
Ext. 132

Now is the time to organize your membership development committee to be prepared to begin your membership efforts with the resumption of the meeting season in the fall.

Have on hand or order now, ample supplies of Membership brochures and other promotional material.

All MD officers are encouraged to communicate with their Regional or Divisional MDC representatives to use their resources and information to the fullest extent and to let them know what efforts you're planning locally. (Please refer to the next page to contact your MDC representative).

BONUS PERIOD

Autumn is an excellent time for new membership campaigns. The 12 month dues payment required with the application is applied through December 31, 1982. Up to 15 months of benefits and services can be enjoyed for only 12 months dues. This same "Bonus" of extended services are received from IEEE Societies which new applicants should be encouraged to join simultaneously.

The Bonus Time Bargain is an excellent incentive in encouraging applicants for membership.

"THE VALUES OF MEMBERSHIP"

In planning your fall membership campaigns you'll want to use the very attractive Slide/Tape Presentation "The Values of Membership". The presentation kit consists of professionally prepared 35mm color slides and a 14-minute audio cassette tape. The tape will have provisions for both automatic and manual slide cueing. This will permit the use of various types of tape player/slide projector systems. The tape, in conjunction with the slides, explains the many benefits of IEEE membership and how the Institute is working today to advance the profession and benefit the individual engineer.

The kit comes complete with presenter's instructions and membership applications for enrolling new members. It can be shown at meetings, conferences and professional gatherings and convincingly presents why the non-member should become an IEEE member now. Current members will also be reminded of just how valuable it is for them to remain active in their professional society.

Beginning in September "The Values of Membership" kit will be available on loan for use up to 60 days free of charge.

In planning your membership campaigns and professional activities for fall and winter, plan to use "The Values of Membership", Slide/Tape Presentation. For further details and information, please contact Membership Development, 445 Hoes Lane, Piscataway, NJ 08854
(201) 981-0060 Ext. 189

<p><u>Chairman*</u></p> <p>Calvin O. Stoutz 21 Stoney Clover Lane Pittsford, NY 14534 (716) 722-0808 (O) (716) 381-2177 (H)</p>	<p><u>Vice Chairman*</u></p> <p>C. E. Spike Univ. of Waterloo, Dept. of EE Waterloo, Ont., Canada N2L 3G1 (519) 885-1211 (O) (519) 884-2129 (H)</p>	<p><u>Region 1 Representative</u></p> <p>Duane Matthiessen Mail Stop H040 Mitre Corp. Post Office 208 Bedford, MA 01730 (617) 271-2309 (O)</p>
<p><u>Region 2 Representative</u></p> <p>Melvin Hotz 3710 Gardenview Rd. Baltimore, MD 21208 (301) 765-2368 (O) (301) 484-0778 (H)</p>	<p><u>Region 3 Representative*</u></p> <p>Ensign Johnson Vanderbilt Univ., Dept. of EE Box 1722, Station B Nashville, TN 37215 (615) 322-2771 (O) (615) 292-2961 (H)</p>	<p><u>Region 4 Representative</u></p> <p>Dr. Abraham Franck 6514 Fifth Ave., S. Minneapolis, MN 55423 (612) 376-1023 (O) (612) 869-3811 (H)</p>
<p><u>Region 5 Representative</u></p> <p>John D. Freed 321 N. Harvey Box 321 Oklahoma City, OK 73101 (405) 272-3085 (O)</p>	<p><u>Region 6 Representative</u></p> <p>R. I. Thieme Pacific Northwest Bell Room 2802 1600 Bell Plaza Seattle, WA 98191 (206) 345-3860 (O)</p>	<p><u>Region 7 Representative</u></p> <p>Gary Mussar C/O Bell Northern Res., Dept. 2C21 PO Box 3511, Station C Ottawa, Ont., Canada K1Y 4H7 (613) 596-2210 (O)</p>
<p><u>Region 8 Representative</u></p> <p>C. J. M. van der Wulp TNO Research Unit, EEG Dept. Westeinde Hospital Lijnbaan 32 2512 VA, The Hague, Netherlands</p>	<p><u>Region 9 Representative</u></p> <p>Eduardo Bonzi Correa Casilla 9807 Santiago, Chile 398-452 (O) 255-883 (H)</p>	<p><u>Region 10 Representative</u></p> <p>Mt. T. V. Balan Cement House 121 M. Karve Rd. Bombay, 400020, India</p>
<p><u>Division I Representative</u></p> <p>Colonel Allen D. Dayton 10221 Raider Ln. Fairfax, VA 22030 (202) 692-0281 (O)</p>	<p><u>Division II Representative*</u></p> <p>Martin Plotkin Brookhaven National Labs. Upton, NY 11973 (516) 282-4717 (O)</p>	<p><u>Division III Representative</u></p> <p>William Hibbard 120 Piping Rock Rd. Silver Spring, MD 20904 (301) 344-7889 (O)</p>
<p><u>Division IV Representative</u></p> <p>Glen R. Thoren Raytheon Co. Missile Systems Div. Hartwell Road Bedford, MA 01730 (617) 274-7100 Ext 1410 (O)</p>	<p><u>Division V Representative</u></p> <p>Russell Theisen Martin Marietta 2667 Fitzhugh Rd. Winter Park, FL 32792 (305) 352-3176 (O) 352-3177 (O) 352-4177 (O) 671-4139 (H)</p>	<p><u>Division VI Representative</u></p> <p>Thomas H. Grim 3392 Avalon Rd. Shaker Heights, OH 44120 (216) 822-2378 (O) (216) 561-9110 (H)</p>
<p><u>Division VII Representative</u></p> <p align="center">TO BE ADVISED</p>	<p><u>Chairman 1981 RAB SAC</u></p> <p>Dr. Charles K. Alexander Dept. Chairman, Dept. of EE Tennessee Technological Univ. Box 5004 Cookeville, TN 38501 (615) 528-3397</p>	<p><u>IEEE Staff Secretary*</u></p> <p>Roseann Schulz IEEE Service Center 445 Hoes Ln. Piscataway, NJ 08854 (201) 981-0060 Ext 132</p>
	<p><u>Coordinator, Membership Dev.*</u></p> <p>Bill Hunter IEEE Service Center 445 Hoes Ln. Piscataway, NJ 08854 (201) 981-0060 Ext. 189</p>	

* Planning & Evaluation Committee

Rev. 7/23/81



Student Activities News

ABOUT THOSE STUDENT APPLICATIONS.....

To insure fast application processing, Member Services would appreciate the following:

- 1) Make sure the application is filled out completely and signed by the student.
- 2) Send the applications in weekly batches or let the students send them in individually.
- 3) Send the individual checks rather than one lump sum. If the total amount is short, processing is held up until Member Services knows how to correctly allocate the funds.
- 4) For non-U.S. Student Branches, application processing is started without funds due to international banking considerations. However, please send a list with the actual funds stating each student's name, address and requested transactions to help Member Services distribute the funds accurately.

There are some waiting periods. Students should plan to wait two weeks to be notified of membership, another two weeks for their membership card. They should receive their first issue of SPECTRUM eight to ten weeks after IEEE receives their application. (Everything does, regrettably, take longer for students outside North America.) After that time, please have the students contact Member Services for help at IEEE, 445 Hoes Lane, Piscataway, NJ 08854.

1981-82 COMPUTER SOCIETY SCHOLARSHIP WINNERS

Congratulations to these students! Each winner accepting the scholarship will receive \$3,000 for this year. The Computer Society offers these scholarships to recognize and reward students active in their Computer Branch Chapter and who show promise in their academic and professional efforts.

Rajive Bagrodia, Indian Institute of Technology, Bombay
(Advisor: Professor S.S.S.P. Rao)

Michael T. Lenz, Iowa State University
(Advisor: Professor Stanley G. Burns)

Robert L. Williams, University of South Florida
(Advisor: Professor Nancy McDonald)

First Alternate

Bhuwan K. Agrawal, Wayne State University
(Advisor: Professor Dharma Agrawal)

1981 STUDENT PAPER CONTEST WINNERS

Student Paper Contests are held each year on a Council, Section, Area, and Regional level. The Institute Life Member Fund generously contributes \$300, \$150, and \$75 for first, second, and third place, respectively in the Regional contests. Researching, writing, and presenting a paper provides the Student with invaluable early experience in expressing ideas related to engineering.

Congratulations to the following 1981 winners: REGION 1, first place, Alan P. Cavallerano, James P. Coghlan, and Rex H. Molisani of The Cooper Union; second place, John Barile and Richard D. Foley of The Cooper Union; third place, Gary D. Polhemus of Trenton State College. REGION 2, first place, Paul M. Embree of Lehigh University; second place, Scott D. Thompson and Edward J. Sager of Pennsylvania State University; third place, Wayne C. Pilkington of Lafayette College. REGION 3, first place, Carol Nunnally and Ray Webb of the University of North Carolina at Charlotte; second place, Harlan Yates of the University of Alabama in Huntsville; third place, James Vandiver of Christian Brothers College. REGION 4, first place, Larry T. Nitz and Edward R. Schifferns of General Motors Institute; second place, Robert Nash and Paul Leonard of the University of Windsor; third place, James Peterson, Jr. of North Dakota State University. REGION 5, first place, Sylva Steigerwald of the U.S. Air Force Academy; second place, Wendy K. Ludlum and Douglas R. Long of Texas Tech University; third place, Phillip Main of the University of Missouri at Kansas City. REGION 7, first place, Ronald F. Van der Meulen and Kevin J.M. Campbell of the University of Calgary; second place, Rod E. Bagg of Seneca College; third place, John E. Ens of the University of British Columbia. REGION 8, first place, Zeev Shpiro and Roni Waissman of Technion, Israel Institute of Technology; second place, F.J. Gielkens of Eindhoven University of Technology; third place, J. Godet of the Catholic University of Louvain. REGION 10, first place, Colin Phillip Grieshaber of James Cook University of North Queensland; second place, Masaya Watanabe of the University of Tokyo; third place, Yoshinori Kuno of the University of Tokyo.

CONCERNING STUDENT PINS

Just a reminder, new Students affiliated with a Student Branch receive their pins from the Branch. To order a supply, Student Branches must request them from Student Services; we will provide them free of charge. Plan on a four week lead-time as the student pins are not directly sent from Headquarters.

THANK YOU!

SHORT COURSE

Contact: Robert Wlezien
201-981-0060

IEEE Short Courses provide expert instruction plus member service

Choose the plan that best fills your capabilities and matches your needs

Co-Sponsored Plan

Most of the pre-course activities are completed by our Education Staff. The co-sponsor will establish course date, arrange for meeting place, develop local promotion program, and handle registrations on the day of the course. The EAB assumes the financial risks. Our normal tuition cost is considerably lower than most plans offered by universities and/or education enterprises.

Instructor/Notes Plan

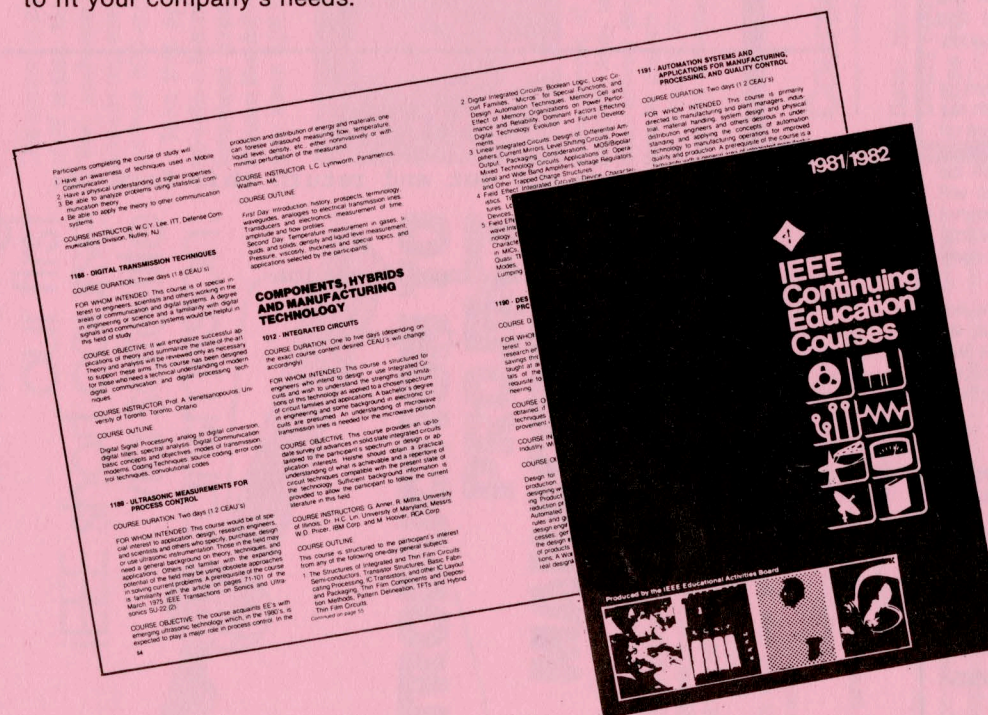
We arrange for the instructor and provide the course notes/text. All other arrangements are made by the participating unit. All surpluses will go to the participating unit. This plan will enable unit leaders an opportunity to provide the course at a much lower registration fee since the promotion costs can be absorbed by the local membership.

In-House Plan

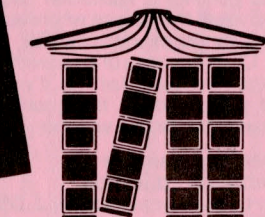
Avoid travel expenses and the loss of valuable working time. Courses can be planned around your EE's schedule and locale for minimal cost. We are flexible. If you don't see a course that suits your needs, let us know. Courses can be "tailor" made to fit your company's needs.

Low Cost Package Plan

For use by IEEE entities only! This innovative plan permits education chairmen to schedule proven effective short courses at a small fraction of their usual cost and with great scheduling freedom. IEEE provides the software. You provide the hardware and the instructor.



Write for catalog and complete information, including costs:
Manager
Continuing Education
IEEE
445 Hoes Lane
Piscataway, New Jersey 08854
(201) 981-0060 Ext. 175/177

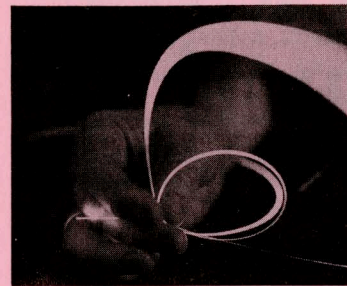


A Continuing Education Service of the IEEE Educational Activities Board.



Announcing IEEE 2 DAY

Fiber Optics Workshop A PRACTICAL INTRODUCTION TO LIGHTWAVE COMMUNICATIONS



"Fiber optics" communications systems will carry more information into offices and homes than is now possible with today's standard electronic transmission. IEEE's "A Practical Introduction to Lightwave Communications" two-day hands-on course describes and explores applications, technology, and methods of communications over optical fibers and through free space by considering the various light sources used.

Course content focuses on:

- Glass Fiber Optical Waveguide
- Application of Lasers & LED Light
- Demonstration Experiments
- Terminal Devices
- Systems Consideration & Design

Important distinctions and comparisons between optical and conventional communication systems are emphasized. Comparison will be made between the transmission medium (optical fiber) and conventional closed metallic wave-guides, including coaxial cable.

The course deals with the optimization of fiber characteristics illustrated by both ray theory and mode theory (with emphasis on the former), and the causes of fiber loss, strength, and cabling properties will be given focused attention. Participants will explore, in depth, selection of terminal components based on a clear understanding of the cost in dollars, trade-offs, complexity, and reliability of each option.

"A Practical Introduction to Lightwave Communications" can be scheduled as an "in-class" applications study, or as a lecture presentation in which the instructor performs numerous experiments with a complete demonstration package.

A CALL FOR STUDENTS

Your IEEE Continuing Education Department will present this course wherever the need exists, for sponsorship by IEEE units (Sections, Chapters, etc.) or by universities or companies (in-house training). If you are interested in sponsoring the course for local presentation, please write to:

Robert Wlezien, Manager
IEEE Continuing Education
445 Hoes Lane, Piscataway, N.J. 08854
(201) 981-0060 - Ext. 174

A Continuing Education Service of
the IEEE Educational Activities Board



Yes, I am interested in learning more about "A Practical Introduction to Lightwave Communications". I am tentatively interested in the _____ plan for my Section, Chapter, Company, etc. (For plan descriptions see the reverse page.) Please send me the appropriate budget information.

Yes, I would also like a copy of the new 1981/82 Short Course Catalog.

Name _____

Company _____

Address _____

City _____

State _____ Zip Code _____

Telephone _____

Please cut out and return this form to:

IEEE Continuing Education
445 Hoes Lane
Piscataway, NJ 08854

Announcing IEEE short course via satellite transmission: INTRODUCTION TO PROJECT MANAGEMENT

How do you bring one of the most important and popular of short courses to the widest possible audience at the lowest possible attendance fee?

By "hitching on" to Satcom I and Westar and presenting Merrill W. Buckley, Jr., as instructor in his timely and stimulating one-day short course: Introduction to Project Management.

Increase your company's
productivity through cost-effective
project management.

Designed for all project management personnel—including those responsible for new products, construction, research and development—the course explores the requirements for bringing a program in on time, within budget, based on accurate forecasting of manpower and materials. Topics include:

- Fundamentals
- Organization and Policies
- Human Factors
- The Project Schedule
- Implementing a Project Plan
- Managing the Base Line Plan
- Controlling Schedules and Costs
- Earned Value and Trend Analysis Reports
- Computer Support
- Future Developments

Other vital aspects will also be covered, such as the organizational conflicts inherent in project management.

CLASS SIZE: UNLIMITED

The course is currently scheduled for 55 locations in a total of 32 states. Mr. Buckley will conduct the course before a "live" audience in Columbia, SC, and will be prepared to answer representative questions from other locations via a toll-free 800 number.

Take this opportunity, now, to participate in an innovative learning experience conducted by one of the foremost experts in a subject of crucial importance. Return the Advance Registration Form today. Note that you save \$25.00 by registering in advance.



Instructor Merrill W. Buckley, Jr. (M.S.E.E.) is administrator of planning and measurement at RCA, Morristown, NJ. He has served in the logistical planning, management of the Minuteman and Talos missile systems, BMEWS, Atlas launch control and weapon checkout, and has been actively engaged in devising improved management systems for projects such as Apollo, Aegis and Tradex, and for industrial firms. Mr. Buckley has also provided specialized training services for a number of large corporations.



Introduction to Project Management ADVANCE REGISTRATION FORM

You save \$25.00 by registering in advance.

Check below the area (IEEE Section designation) wherein you wish to participate in this one-day course. A letter of confirmation will be mailed to you designating the exact location plus the phone number of a specific person to contact for further information.

- Alabama Huntsville
- Arizona Phoenix
- California Los Angeles
- Colorado Denver
- Connecticut Fairfield County
- Florida Orlando
- Georgia Atlanta
- Idaho Boise
- Illinois Chicago
- Indiana Fort Wayne
- Iowa Cedar Rapids
- Kansas Wichita
- Kentucky Louisville
- Louisiana New Orleans
- Maryland Baltimore
- Massachusetts Boston
- Michigan Detroit
- Minnesota Minneapolis
- Missouri St. Louis
- Mississippi Jackson
- Montana Helena
- New Hampshire Manchester
- New Jersey Atlantic City
- New Mexico Albuquerque
- New York New York City
- North Carolina Raleigh
- Ohio Columbus
- Oregon Portland
- Pennsylvania Allentown
- Rhode Island Providence
- South Carolina Columbia
- Texas Austin
- Virginia Richmond
- Washington Seattle
- Wisconsin Milwaukee
- Wyoming Cheyenne

At-the-door registration fee:

IEEE members \$125.00; nonmembers \$150.00

IEEE members \$150.00; nonmembers \$175.00

Companies wishing to sponsor the course "in-house" will be charged \$1,875.00 for up to 15 participants (\$30.00 additional for each person above that number).

*Yes, I will attend your 1-day short course Introduction to Project Management on January 12, 1982, in the area I have checked above.

Check appropriate box below:

Payment enclosed. (Make check payable to IEEE).

Charge to credit card indicated.

MasterCard Visa American Express

Card No. _____

Expiration Date _____

Signature _____

Name (print) _____

IEEE No. _____

Telephone No. (daytime) _____

Address _____

City _____

State/Country _____

Postal Code _____

MAIL TO: IEEE

Continuing Education Department
445 Hoes Lane, Piscataway, NJ 08854
(201) 981-0060 extensions 174, 175 and 177





IEEE

Contact: Dolores Wright
(212) 644-7750

Fellow Committee

ORDER FORM

IEEE FELLOW NOMINATION KITS

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

Please mail _____ IEEE Fellow Nomination Kits.

Ship to: (Please print)

Name

Address

City State/Country Zip Code

Date

Your Signature

PUBLISHING NEWS

The IEEE Press Issues Publication on Geometric Diffraction
The *Geometric Theory of Diffraction* has been recently published by the IEEE PRESS. The volume contains a collection of papers dealing with the development of the geometric theory of diffraction (GTD), canonical problems for both curved surfaces and edges/wedges, applications, including antennas on aircraft, satellites and other complex bodies and the combination of GTD with moment method.

The publication has been sponsored by the IEEE Antennas and Propagation Society and edited by Robert C. Hansen.

The 416-page *Geometric Theory of Diffraction* can be ordered from the IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. The cost is \$20.45 for the paperbound member edition.

NEW FELLOW NOMINATION KITS NOW AVAILABLE

New Fellow nomination kits are now available, upon request to the Staff Secretary, IEEE Fellow Committee, 345 East 47 Street, New York, N.Y. 10017. The kits include detailed guidelines to assist the nominator in the effective preparation of the Nomination Form.

The Fellow Nomination Form has been revised. It is important to note that only the new Nomination Form having the year code "1982" will be accepted by the Fellow Committee.

All organizational units and individual members are encouraged to actively participate in the nomination process. Order your new Fellow Grade nomination kits now. A form for this purpose is provided on page 95-2H of this issue.

IN A LETTER FROM ENGLAND

Robert C. Winton, Member of the Editorial Board, Secretary Region 8 wrote to us with a good idea. Mr. Winton suggested that ELECTRICAL ENGINEERING publish the traveling itineraries of members going to other countries and willing to lecture.

ELECTRICAL ENGINEERING would be happy to list the name, contact address and telephone number, dates of travel, and chosen subject. Interested parties will be asked to contact the members directly.

Please be aware that ELECTRICAL ENGINEERING is a bimonthly publication, so we will need plenty of time for an announcement.

Send your information to: The Editor, ELECTRICAL ENGINEERING, IEEE, 345 East 47 Stret, New York, N.Y. 10017.

CARNEGIE-MELLON GRADUATE RECEIVES 1981-82 FORTESCUE FELLOWSHIP

James Eric Dvorsky of West Mifflin, PA has been named the recipient of the 1981-82 Fortescue Fellowship. Mr. Dvorsky graduated Carnegie-Mellon in May, and plans to enter the graduate engineering program in the Fall 1981 semester.

Mr. Dvorsky is a student member of the IEEE and a member of the Eta Kappa Nu, an electrical engineering honor society. As an undergraduate, he was chosen to participate in the Honors Research Program which affords top engineering students the opportunity to conduct a year-long research investigation with a member of the engineering faculty.

The Fortescue Fellowship, named for noted electrical engineer, Charles LeGeyt Fortescue consists of \$8,500 and a certificate. It is awarded on the basis of Graduate Entrance Examination scores, college transcripts, application information and letters of recommendation.

ELECTION TIME ROLL AROUND: PLEASE GET OUT AND VOTE

Prior to September 1, IEEE ballots are going to be mailed to some 165,000 members eligible to vote. Historically, fewer than 30 percent of the members vote; 75 percent of these in the first four weeks of the two-month election period. Entities are urged to do all they can to encourage voting by their members — meeting announcements, newsletter announcements, word-of-mouth.

While the top IEEE offices are not being contested, division and regional offices do offer choices.

Ballots are mailed third class to regions 1 - 6; and first class and/or air to regions 7 - 10. Three weeks should be allowed by members to receive ballots. If you or members do not receive a ballot, contact: Brenda Smith, Independent Election Corporation of America, Delaware Drive, Lake Success, New York 11042. Telephone: 516-437-4900 TWX: 5102230469.

PUBLIC RELATIONS GUIDE NOW AVAILABLE

The Public Relations Department has prepared a *Public Relations Guide* for the use of volunteers who perform a public relations function for their IEEE entity.

If any members belong to this group and haven't received their *Guide*, please contact the Public Relations Office at 212-644-7866 and request one.

UNITED STATES ACTIVITIES NEWS

On June 5, USAB Representatives met Norman Ture, Undersecretary of the Treasury for Tax Policy. Treasury has historically opposed expansion of IRAs because of projected revenue losses. USAB Pension Task Force Leader, David C. Lewis and representatives of AIAA, ASME, and ASCE attempted to iron out differences with Dr. Ture.

Both the House Ways & Means Committee and the Senate Finance Committee have voted to expand IRA coverage to participants in employer pension plans and to raise investment limits to those without such plans. Increased efforts will be needed to assure passage as these bills go to floor votes and a conference committee.

WASHINGTON SCENE

• Congressman George E. Brown (D-CA) re-introduced a bill (H.R. 3729) on June 2 calling for the establishment of a National Technology Foundation. The concept, as well as Rep. Brown's specific bill, gained support from IEEE and other societies last year.

- Rep. Brown also introduced H.R. 3137 in April, to create an Institute of Information Policy and Research, Armig Kandoian, chairman of the IEEE Telecommunications Policy Committee, offered IEEE expertise to Brown during the hearing process.

An array of telecommunications issues is currently before the Congress. The most far-reaching is a Senate bill to amend the Communications Act of 1934.

TESTIMONY

- USAB is supporting S.255, a bill introduced by Sen. Charles Mathias, which would extend patent terms to seven years for those products subject to regulatory review. A written statement was sent to the Senate Judiciary Committee for inclusion in the hearing record.

- A request to testify has been sent to Sen. William V. Roth, Jr., in support of S. 970, a bill to establish a new cabinet-level Department of International Trade and Investment. IEEE supported similar legislation in the 96th Congress.

- Russell C. Drew, Vice Chairman of USAB testified in support of adequate funding for NASA and NSF before a subcommittee of the House Appropriations Committee on May 8. Copies of the testimony are available from the Washington Office.

- J. Leon Shohet testified again on May 1 in support of the basic philosophy expressed in the Department of Energy's budget requests, bringing to three the number of times he has offered statements this year.

POSITIONS

- USAB recently approved a position statement in support of funding for space programs that will "lead to an expansion of earth-orbit commercial activities, the exploration of our solar system and the universe beyond, and the extension of shuttle capability." Copies of the position are available from the IEEE Washington Office.

USAB also approved a position statement entitled "The Need for Tax Incentives to Promote a Healthy R & D Effort," which was sent to Rep. Dan Rostenkowski, Chairman of the House Ways & Means Committee, and Sen. Robert Dole, Chairman of the Senate Finance Committee. The complete statement is available from the IEEE Washington Office.

CAREER ACTIVITIES

Emergency Detroit Hiring Project: The IEEE Washington Office is accepting calls from prospective employers who have job openings that they would like to have aired on the S.E. Michigan Section "Jobs Hotline." If you have a job opening, call the Washington Office to place your ad. Taped messages of openings can be heard by calling (313) 977-3566.

IEEE Careers Conference: October 22-23 Denver, Colorado. The program will focus on the large majority of the million-plus engineers at work in the U.S. who are not in management but are working as technical contributors. Special emphasis will be placed on the features necessary to a long and satisfying career for those engineers.

Following the Conference, a closely related activity, a "Career Strengthening Workshop," will take place in the afternoon and evening of October 23.

For more information on the Conference and the Workshop, please contact Jill Gerstenzang at the Washington Office.

VINES TO SERVE VISITING PROFESSORSHIP AT AIR FORCE ACADEMY

Darrell L. Vines, chairman of USAB's Member Activities Council, has been selected to serve as Distinguished Visiting Professor at the U.S. Air Force Academy. He is on leave from Texas Tech's Electrical Engineering Department from July 1, 1981 to June 30, 1982.

Gloria Aukland
202-785-0017

E.K. GANNETT NAMED DEPUTY GENERAL MANAGER OF IEEE

Eric Herz, Executive Director and General Manager, recently announced the appointment of Elwood K. (Woody) Gannett to the newly created post of Deputy General Manager. The appointment takes effect December 1, 1981.

Woody is currently IEEE Staff Director for Publishing Services, and responsible for the production of 40 journals, the IEEE PRESS book program, and the indexing of all IEEE technical literature.

We all wish Woody well in his new position.

CONSOLIDATED INVESTMENT OPTIONS

The recent performance of the cash management investment options available to IEEE's organizational units is reported below. All units are urged to examine their available cash for optimum returns.

Investment Option 1 — Short-Term Bank Deposits*:

April	13.60%
May	15.52%
June	14.70%
July - September	14.00% Estimated

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

April	15.82%
May	16.29%
June	15.78%
July - September	15.50% Estimated

Investment Option 3 — Bond Plan†

April	12.30%
May	12.90%
June	12.80%
July - September	12.50% Estimated

* Percentages refer to amounts actually earned by all depositors in that month.

† Percentages are estimated average return over total period of the investment on funds deposited during the respective months.

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201-981-0060

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