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Official Publication of the Chicago Section • Institute Of Electrical & Electronics Engineers • January 1986

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 236-4609
(unless otherwise indicated)

Copy Deadline for February Scanfax is Dec. 23

HAPPY NEW YEAR!

1986 JAN.	8	"Advances in Optical Holography"	Indus. Appls./Industl. Electronics Society (j/w ISA)	Mr. Peter's Restaurant 1018 Mount Prospect Rd. Mount Prospect, IL	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
	8	"Design Liability"	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm., 8th Fl.	Social Lunch Meeting	11:30 AM 12 Noon 12:30 PM
	14	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Allen-Bradley Company 910 Pasquinelli Dr. Westmont, IL	Meeting	7:30 PM
	21	"Magnetic Resonance—Issues & Challenges"	Northwest Subsection	Mr. Peter's Restaurant 1018 Mount Prospect Rd. Mount Prospect, IL	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
	29	"Micro. Tech. in the Detection & Treat. of Cancer"	Fox Valley Subsection	Wilton Manor 2200 Main Street Wheaton, IL	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM
FEB.	5	"Chicago Electl. Code vs. NEC"	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm., 8th Fl.	Social Lunch Meeting	11:30 PM 12 Noon 12:30 PM
	11	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Allen-Bradley Company 910 Pasquinelli Dr. Westmont, IL	Meeting	7:30 PM
	12	"The IEEE & the NEC"	Industry Appls./ Industrial Electronics Society	Mr. Peter's Restaurant 1018 Mount Prospect Rd. Mount Prospect, IL	Social Dinner Meeting	5:30 PM 6:15 PM 7:15 PM
	16-22	36th Annual National Engineer's Week — "Engineers: Turning Ideas into Reality"				
	26	"Automotive Diagnostic Systems"	Fox Valley Subsection	Wilton Manor 2200 Main Street Wheaton, IL	Social Dinner Meeting	6:00 PM 7:00 PM 8:00 PM

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Unless otherwise specified, Chicago Section IEEE neither endorses nor sanctions any positions or actions espoused in SCANFAX.

Bob Hofmann, Editor
979-3627

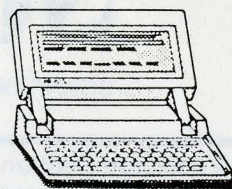
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979-5824

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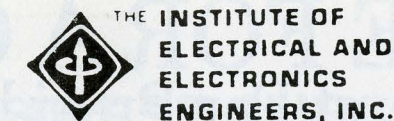
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**JOINT ISA AND IEEE IAS/IES MEETING NOTICE
WEDNESDAY, JANUARY 8, 1986**

**Dr. Tung H. Jeong
"Advances in Optical Holography"**

Our annual joint meeting with the Instrument Society of America (ISA) features the return of Dr. Jeong, Chairperson and Albert Blake Dick Professor of Physics at Lake Forest College.

Dr. Jeong tells us that holography is the science of using black and white film to produce three-dimensional, color images without a camera. The images can then be viewed in regular light.

Impossible? Difficult? If you have doubts, come and find out how it's done. Dr. Jeong will discuss some of the artistic and technical applications of holography, demonstrate examples, and create a hologram as we watch.

Dr. Jeong is a native of China, obtained his B.S. from Yale, and his Ph.D. from the University of Michigan. He is internationally known in the field of holography. He has directed holography workshops, organized International Symposia on Display Holography, visited over 400 universities on three tours sponsored by the American Association for the Advancement of Science (AAAS), is a lecturer for the Thomas A. Edison foundation, a fellow of the Optic Society, and recipient of the Milligan Medal from the American Association of Physics Teachers.

Lake Forest College was founded in 1857. It is a private liberal arts college with 1100 undergraduate students situated on 107 acres in Lake Forest, Illinois.

Schedule for this meeting only:

6:00 Cash Bar
7:00 Dinner
8:00 Technical Program

Location:

Mr. Peter's Restaurant
1018 Mt. Prospect Ave.
(Rand & Central—Mt. Prospect Shopping Center)
Mt. Prospect, IL

Reservations: Please call Carol Jennings at Process Sales, Inc., 543-7400, by noon, January 6th. The cost for dinner for IEEE and ISA members is \$12, and \$13 for non-members. If you cannot attend, please cancel your reservations so that an accurate meal count can be made.



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IT'S TIME FOR A CHANGE

Irwin Feerst For President-Elect

Since its inception, IEEE has enthusiastically pursued its constitutionally-mandated technical and educational functions. In 1973, during a period of mass engineering layoffs, we succeeded in having IEEE's constitution revised (by a 7 to 1 vote of the membership) to permit IEEE to engage in professional activities. (Article I, Sec. 2 now lists, as one of the purposes of IEEE, "(b) professional, directed towards the advancement of the standing of the members of the professions it serves ...").

We are now in another downturn in engineering employment that is at least as severe as the one in the '70s. A close examination reveals that our career instability is caused, in part, by the fact that IEEE has not pursued its constitutionally-mandated function of advancing our standing.

Why, for example, did not IEEE de-bunk the "survey" conducted by the American Electronics Association, an organization of employers of engineers, that projected a huge shortage of engineers? (AEA's survey was obviously flawed in that it did not eliminate the redundant projections of the employers, who compete against each other, especially in the military area.) We protested; IEEE did nothing. Why did not IEEE scream about the "study" conducted by Northeastern University that claimed that we are obsolete by the age of 37? We protested; IEEE did nothing. Why does not IEEE oppose joint university-industry research and development? This removes R&D work from the industrial workplace and gives it to the universities. We protested; IEEE has done nothing. **What is common to these three examples is that the ideas they represent benefit the college professors and the corporate executives, at the expense of the working engineer.**

The Institute (October, 1985, p. 6) tells of the meetings the 1986 president of IEEE has had with "major IEEE employers". He says, "You don't bite the hand that feeds you." Yet, not a single "E" in "IEEE" means "employers". It is improper for any IEEE official to seek confrontations with industry. But, if they occur in the course of advancing the professional standing of IEEE's members, then it is also improper to walk away from them.

My credentials: Electronics Technicians Mate 3/c, U.S. Navy (during and after World War II); BEE (City College of New York, 1951); MEE (New York University, 1955); MSEE (Polytechnic Institute of New York, 1974); employed by various profit-minded companies (1949-1962); Assistant Professor of Physics and Electronics (Adelphi University, 1962-1969); independent, licensed consulting engineer (1969-present).

I have addressed professionally-related issues since 1973, when the first of our monthly newsletters was published. I have spoken to 108 IEEE sections/groups/chapters. I have testified before four committees of the U.S. Congress on matters of interest to working engineers. I am a working engineer and I am running for President-Elect of IEEE. If you think it's time to have IEEE represent YOU, please sign the nominating petition.

We, the undersigned voting members of the Institute of Electrical and Electronics Engineers, Inc. (IEEE) nominate Irwin Feerst, a Senior Member (mailing address: P. O. Box 19, Massapequa Park, NY 11762) for the office of President-Elect of IEEE for the period from 1/1/87 until 12/31/87.

NAME (PRINT)	NAME (SIGN)	Member Number (if known)	Date

If elected, I shall serve.

I. Feerst

Petitions should be returned by March 15, 1986 to:
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(If you send in three or more signatures- one of them can be yours- you can receive a few FREE issues of our monthly newsletter. If you wish to do so, please check here ☐ and be sure to include your address.)

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NORTHWEST SUBSECTION

Chicago Section, IEEE

January 21, 1986 Meeting

ARTHUR L. GLENN

The topic will be "Magnetic Resonance—Issues and Challenges" including an overview of the concepts of MR, an update of FDA approval, and the future of this diagnostic imaging device.

Education

BS in Mechanical Engineering,
Penn State University, 1956.

Experience

Mr. Glenn began his professional career as a Research Engineer for Rocketdyne Division, North American Aviation. He then spent two years in the U.S. Army as a Research Officer in Air Defense Guided Missile Systems. He joined General Electric's Defense Systems Department as a Business and Product Planning Analyst in 1959. In 1961 he became Technical Sales Representative in Heavy Military Electronics. From 1962 to 1970 he was District Sales Manager in the Aerospace Programs Relations Division. From 1970 to 1978, Mr. Glenn served first as Manager, Marketing, and then Manager, Programs, in Major Radar Electronics Programs. In 1978 he joined Medical Systems as Manager of Computed Tomography Programs and was named General Manager when that program became a Department in 1980. Mr. Glenn assumed the responsibilities of General Manager for the MR Programs Department when it was created in 1983.

The meeting will be held on January 21, 1986.

"Magnetic Resonance—Issues and Challenges"
Mr. Peter's Banquets
1018 East Mt. Prospect Plaza
Mt. Prospect, IL
6:00 Social Hour
7:00 Dinner
8:00 Speaker - Mr. Art Glenn from General
Electric Medical Systems Group

We look most forward to this meeting as it is a follow-up to a similar meeting we had 2 years ago. At this time, Magnetic Resonance medical applications were in the developmental research stages. Recently, however, MR has recognized FDA approval for use as a medical diagnostic tool.

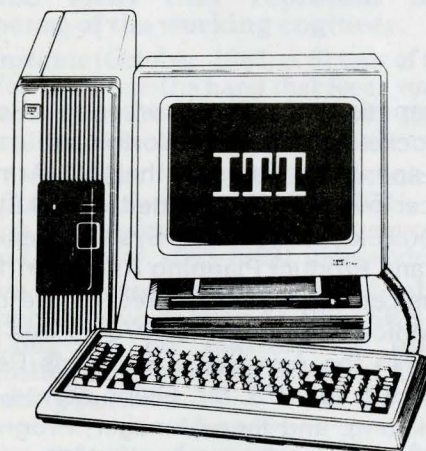
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Expansion slots available (equivalent configurations)	4	2

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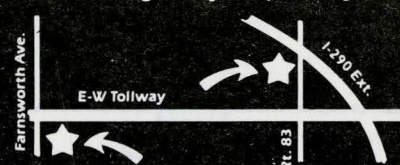
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AT WHAT COST THE CHICAGO SECTION

Have you ever stopped to consider the costs of running the Chicago Section? Like everyone else, the Section prepares a budget each year. That process is taking place right now. In 1984 the Section expenses totaled \$41,311.39. Thru the month of October 1985, \$35,500.23 was spent and November and December should put expenses over the \$40,000 mark again.

This is quite a sum of money. How it is spent is determined by the Chicago Section Executive committee. Expenses are spread over the various subsections and active Societies within our section. These groups use funds to finance monthly meetings and mail notices to the membership. The single largest cost to the section is SCANFAX, your newsletter. This publication will cost about \$20,000 to produce this year. On the plus side SCANFAX also produces thru advertising. This year about \$8,000. The difference is picked up by the section in an effort to keep the membership informed about it's many activities.

Besides SCANFAX, additional funds are required to balance the budget. The section income is primarily derived from the conferences either sponsored or co-

sponsored by the section. Video conferences are one example. Further funding is received from IEEE headquarters by rebating members dues to the local sections. This rebate is determined by a complex formula which includes funding based on section membership, number of active societies and the number of meetings and conferences held by a section. Basically, the more active the section, the larger the rebate can be. The more the membership grows and becomes active the more you will see you IEEE dues coming back to your local section to support your local activities. This year the sections rebate totaled \$15,474.00. A bit of quick math shows this rebate doesn't even cover the costs of this newsletter.

The financial success of the Chicago Section is due in large part to the dedication and hard work of the Executive committee who are committed to running an active Chicago Section for the benefit of the membership. Clearly financial planning is key to making the section viable and considerable revenue needs to be generated to augment income from IEEE headquarters. Support of the membership thru active participation on committees or by attending meetings is crucial to continued success of your local Section.

Scanfax Deadlines—Copy for Scanfax must be received by Eleanore or the editor by the following dates. Information **must** include IEEE relationship if not clearly an IEEE function, and the **home** and **business** telephone numbers of the person submitting the information. Failure to provide this information may result in non-publishing of the entire article. Scanfax is a voluntary magazine, and incomplete information may be cut out in the interest of preserving the editors and assistant editors full-time jobs.

H R Hofmann - Editor

Scanfax Copy
Feb. Scanfax -
March Scanfax -
April Scanfax -
May Scanfax -

Deadlines
Dec. 23, 1985
Jan. 27, 1986
Feb. 24, 1986
March 24, 1986

Mailing Dates
January 15, 1985
February 17, 1985
March 17, 1985
April 15, 1985

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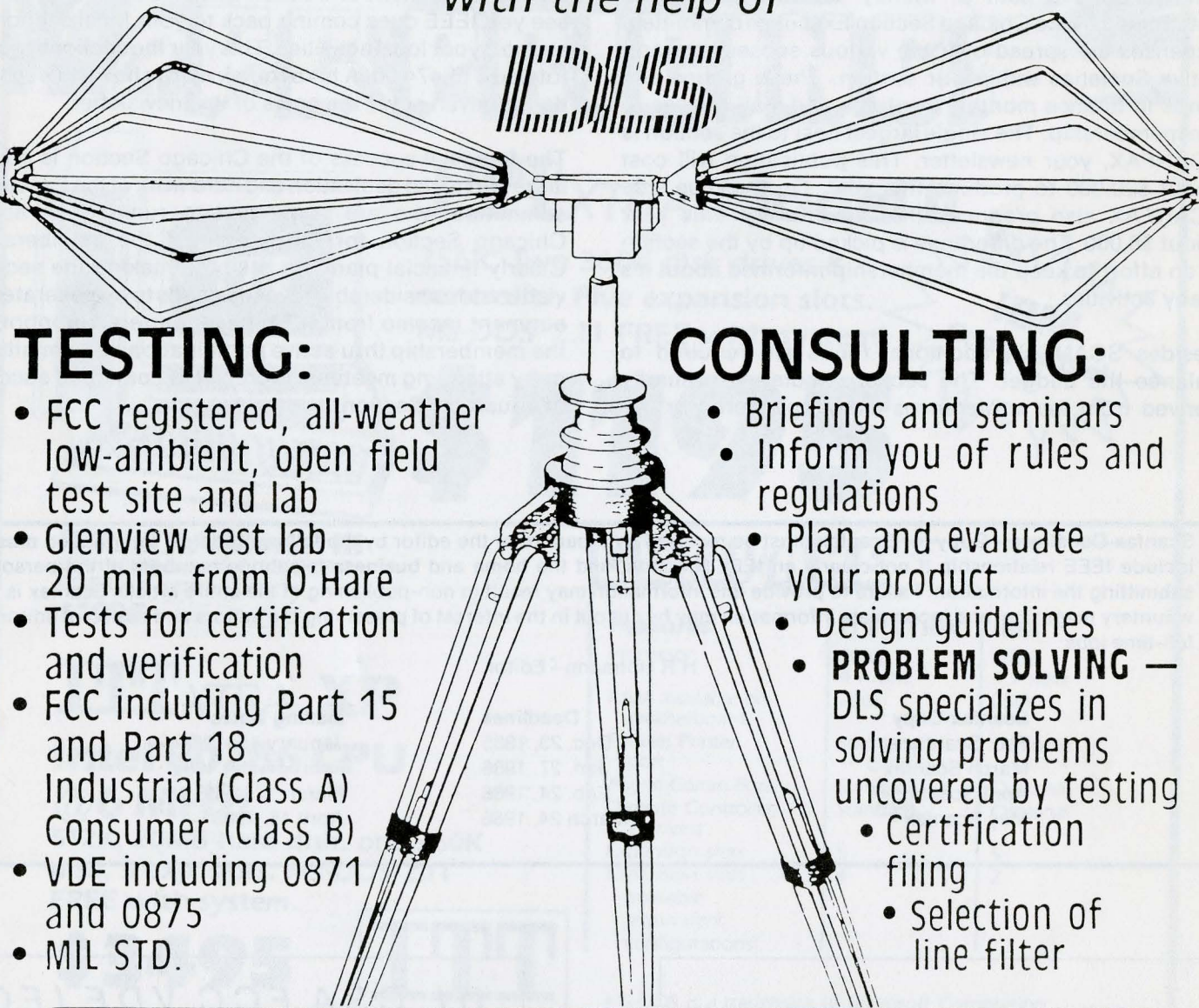
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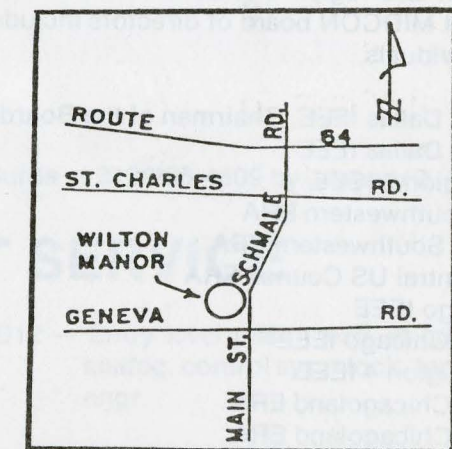
THE APPLICATION OF MICROWAVE TECHNOLOGY TO THE DETECTION AND TREATMENT OF CANCER

Research activity has been underway for the past decade to apply microwave technology, both invasive and noninvasive, to the detection and treatment of cancer. The application of microwave technology is based on two assumptions: 1) a carcinoma or malignant tumor is normally hotter than the surrounding tissue, and 2) it is known that tumor tissue will die at temperatures greater than 42°C. It has been reported that tumor temperatures greater than 45°C can be held with adjacent tissue remaining at or near normal temperature. This has led to the use of microwave technology to detect and destroy tumor tissue. This presentation will review the past and on-going work within the microwave industry, both in the United States and abroad. Also, a review of cancer statistics and trends will be discussed.

Kenneth Carr is Senior Vice President of M/A-COM, Inc., Burlington, Massachusetts. He received his B. S. in Electrical Engineering from Tufts University. During the past thirty years, Mr. Carr has worked at Philco, Sylvania, and Airtron. In 1958, he co-founded Ferrotec, Inc., serving initially as Technical Director and later as President. Following the acquisition of Ferrotec in 1970 by M/A-COM, Inc., Mr. Carr became Senior Vice President and Technical Director. Much of his recent work has been in the development and application of microwave techniques to medicine and, in particular, to the detection and treatment of cancer. He has received NASA's Certificate of Recognition in both 1980 and 1983 for his scientific contribution in this area.

Currently, he is a trustee of Wentworth Institute of Technology, Boston, Massachusetts; a member of the staff of the Eastern Virginia Medical School, Norfolk, Virginia; and a member of the Engineering Advisory Council for Southeastern Massachusetts University in North Dartmouth. He is also a member of AAPM, BEMS, IMPI, the Radiation Research Society, and a Senior Member of the IEEE. Kenneth has been selected as the IEEE 1985-1986 Distinguished Microwave Lecturer.

Place: Wilton Manor
Location: 2200 Main Street
Wheaton, IL
(See Map)
Time: Cocktails - 6:00 p.m.
(Cash Bar)
Dinner - 7:00 p.m.
Meeting - 8:00 p.m.



Please call (312) 236-4609 for dinner reservations no later than Monday, January 27. If you cannot attend the dinner, please feel free to come to the meeting.

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ANNUAL MIDCON BOARD MEETING

The annual MIDCON board meeting was held at the Montparnasse Hotel in Paris, France this first week in November. Those present from the Chicago section of IEEE were Jim Ralston, outgoing chairman; Dave Pivan, outgoing director; John Lightner and George Thomas; incoming directors and Paul Jahn. Officers elected included Mary Alys Lillard, chairman of the board, Dale Eckeberger, vice-chairman of the board and Bob Infanger, treasurer. IEEE members from both Chicago, Dallas, Region 4 and Region 5 caucused to find ways of promoting section and region interest in the MIDCON show. The current MIDCON board of directors includes the following individuals.

Mary Alys Lillard; Dallas IEEE, Chairman of the Board
Henry Buchanan; Dallas IEEE
Darrell Vines; Region 5 IEEE
Steve Spvonts; Southwestern ERA
Dale Eckeberger; Southwestern ERA
Bob Infanger; Central US Council ERA
Paul Jahn; Chicago IEEE
George Thomas; Chicago IEEE
John Lightner; Region 4 IEEE
Roy Puzerewski, Chicagoland ERA
Bobby Johnson; Chicagoland ERA
Joe Jesse; Central US Council ERA

The directors are chosen by the local IEEE section chairmen and executive committee.

The estimated surplus for MIDCON 85 is \$120,000.00 and therefore the Chicago IEEE section is entitled to \$12,000.00 once the books are closed in February. The next board meeting will be held in Dallas in April. The next annual meeting will be in Los Angeles where the board members will view the facilities of ECI/ECM, the management company of MIDCON.

The board was able to attend the Composant Electronique 85 show in Paris and observe the operation of an European electronics show. The board brought back many favorable impressions that have possible applications to the MIDCON show. Efforts were initiated to include some of the "European style" into the Dallas MIDCON show in September, 1986 on a special exhibit basis.

A special thanks should go to the outgoing board chairman Jim Ralston and director Dave Pivan. Their many years of service on the MIDCON board contributed to the success of the show from which our section has prospered. We hope we speak for all of the Chicago section in applauding their efforts.

George Thomas
Paul Jahn

POWER ENGINEERING SOCIETY

MEETING NOTICE

**Luncheon Meeting
Wednesday, January 8, 1986**

SPEAKER	Bruce H. Schoumacher McDermott, Will & Emery
TOPIC	Design Liability
ABSTRACT	The talk will cover the standard care in rendering professional services owed by an engineer to his clients and others. In addition, some recent court cases of interest to design professionals will be discussed.
ABOUT THE SPEAKER	Mr. Schoumacher has a B.S. degree from Northwestern University and M.B.A. and J.D. degrees from the University of Chicago. He is a partner in the Chicago law firm of McDermott, Will & Emery. He is a member of the Nebraska and Illinois Bars. Mr. Schoumacher devotes much of his time to representing architects and engineers in lawsuits and counseling design professionals on contract, claim and insurance matters. Bruce is also a frequent contributor to the "Engineers at the Bar" column in Specifying Engineer.
LOCATION	Carson's Highland Room (8th Fl.) Monroe & Wabash Streets Chicago, IL
TIME	Cocktails 11:30 AM Lunch 12:00 PM Meeting 12:45 PM Lunch will be \$11.00 For reservations contact Eleanore Burda at 312/236-4609 by January 3, 1986.

PLACEMENT SERVICE

The Chicago Section is now offering a Placement Service for its members free of charge. The program is intended for those who are Member Grade and above and is a positive step to help our members who are unemployed. If interested in any of the applicants listed below, call the IEEE office (236-4609) for their name and phone number. If marked "confidential," the applicant will be contacted by the IEEE office so that he/she may contact the prospective employer.

B11 — Facility Mgr. - EE/ME/RPE - power, lgt. & control HVAC, mat'l hndlg. & mech. systems.

B12 — Entry level posi. - exp. in hdwe., micro., digital analog, control sys. - look. for field serv., elec'nics engr.

B13 — Entry level for MSEE in communication systems or AA.

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