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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline
Copy Deadline for November SCANFAX is September 24, 1991

October 8 Tuesday	Chicago Section	Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM
October 9 Wednesday	Communications Society	High Speed Wireless Communications Within Buildings	Sharko's Restaurant 2225 Ogden Avenue Lisle, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
October 9 Wednesday	Power Society	Contract Law for Architect-Engineer	Chicago Bar Association 321 S. Plymouth Court Chicago, IL	Social: 11:30 AM Lunch: 12:00 noon Meeting: 12:30 PM
October 14 Monday	Antennas and Propagation/ Microwave Theory	Relationships: Microwaves and Optics	The Atrium Restaurant 3223 Algonquin Rd. Rolling Meadows, IL	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
October 22 Tuesday	Fox Valley Subsection Computer Society Engineering Management	Microsoft Windows For Personal Project Management	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
October 24 Thursday	LEOS	High Power Semiconductor Laser Diodes	Sharko's Restaurant 2225 Ogden Avenue Lisle, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
October 24 Thursday	Reliability Society	World Class Quality All Day Conference	College of DuPage 22nd & Lambert Rd. Glen Ellyn, IL	Call for Information (708)858-2800 x2180

UPGRADING IEEE MEMBERSHIP

Thank you, all you future Senior Members, for responding to Joe Feitler's APB. We expected that the prominent reason for delaying recognition was not knowing three senior members for recommendations, rather than just procrastination.

If you have had ten years of active professional service, regardless of how long you have been an IEEE Member, Associate or Affiliate, or even a non-member wishing to join, we would like to hear from you. We will help find references. My number is 708 576 8222. Your number would help. Thanx, Jack Sherman.

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CORRECTION

We at SCANFAX regret any inconvenience we may have caused our readers or Storm Products when information was inadvertently deleted from their advertisement which appeared in the September issue. Unfortunately, the missing information was the phone number and address for Storm Products. This month's issue of SCANFAX contains the entire Storm Products advertisement.

SCANFAX, (Publication) number (ISSN 0018-1297), October, 1991 Volume 44, Number 2, SCANFAX is published monthly, except July and August by the Chicago Section Institute of Electrical and Electronics Engineers for the information of its members. Business Office is at IEEE Message Center—2460 Wisconsin Ave., Downers Grove, IL, 60515 (708) 963-3828. Subscription rate for IEEE members collected in dues. \$1.50. Third class postage paid at Glen Ellyn, Illinois.

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Change of Address

Send change of address to Roseann Schulz, Member Services, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854-4150. Include your SCANFAX mailing label if possible or phone direct to: 1-800-678-4333. We cannot forward this information for you, so please do not send it to the local office.

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
NOV	SEPT 24	OCT 15
DEC	OCT 28	NOV 15
JAN 92	NOV 27	DEC 15
FEB	DEC 20	JAN 15
MAR	JAN 28	FEB 15
APR	FEB 25	MAR 15
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

THESE ARE FIRM DEADLINES FOR ADS AND COPY!!!



IEEE

POWER ENGINEERING SOCIETY

SPEAKER:

Mr. Bruce Schoumacher, Attorney, Querrey & Harrow, Ltd.

TOPIC:

Architect-Engineer Contract Law

ABSTRACT:

The presentation will discuss the need for professional services agreements and the requirements for an agreement that adequately protects the engineer. The need for accurately stating the professional responsibility of the engineer will be emphasized.

BACKGROUND:

Bruce H. Schoumacher specializes in the areas of professional liability, product liability, insurance, antitrust, indemnification, and commercial and construction contracts. Mr. Schoumacher is a former instructor in business administration and author of Engineers and the Law: an Overview. He obtained both his J.D. (1966) and his M.B.A. (1963) from the University of Chicago, and his B.S. from Northwestern University (1961).

PLACE:

Chicago Bar Association, 321 S. Plymouth Court (near Jackson & Dearborn)

DATE:

October 9, 1991

TIME:

11:30 Social 12:00 Lunch 12:30 Presentation

Reservations must be made by noon Monday, October 7, 1991, by calling 708-963-3828. Please leave name(s) and company name. Lunch is \$6.50.

IS EVERYBODY HAPPY?

As we come toward the end of the year and of the planned program to assist unemployed IEEE members, we are perplexed by some of the apparent inconsistencies in the response to our efforts. We have had three job search seminars and job fairs since the first of the year. The job fairs are well attended; however, the September seminar was cancelled mainly due to the declining attendance and to the costs in time and money to conduct the job search seminar. This apparent lack of interest makes us ask if there is a need for this service. Are all IEEE members working and/or satisfied with their employment situations?

The large turnouts at the job fairs indicate there are many people seeking employment, perhaps a better job than they presently have; however, these job fairs are open to all and we cannot determine how many attendees are IEEE members.

Each month Scanfax devotes space to listing employment opportunities and members seeking positions. As seen in this issue, few members avail themselves of this service.

We would like to get feedback from the membership to determine if there is a need for these services. How could they be improved? What other services could be provided to assist the unemployed member in finding work? Please be aware we cannot get the job for anyone; that is the individual's responsibility, but we would like to know how we can help.

Address your comments to: John Waters, Professional Activities Chairman; 1004 Golfview Drive; Mt. Prospect, IL 60056.

OUR SECTION IS 14 SOCIETIES, 3 SUB-SECTIONS AND OVER 7000 MEMBERS. This is an increase from 13 societies and 2 sub-sections last year.

Technical meeting coordination is linked via the Program Committee. Chicago area product topics are diverse. Application concentrations include Communications, Computers, Power and Transportation. Your chairperson can add subject areas such as food and pharmaceuticals.

MEMBERS - We all serve your needs, wants and desires. Programs are organized based on your participation.

Contact Chairpersons to provide your input, ideas and comments. This listing is for 1991-1992 and replaces previous interim lists.

*Antennas/Microwave Theory	Dr P Uslenghi	312-996-5487
*Communications	A S Bhugra	708-979-1901
*Components,Hybrids,Mfg Tech	Praveen Gupta	708-231-3142
*Computer	John North	708-224-4692
*Electron Devices	Carl Kannewurf	708-491-8163
*EMC	Don Sweeney	708-699-9060
*Eng in Medicine & Biology	Britt Derek	708-981-3593
*Eng Management & Prof Communication	Joseph Feitler	708-505-9100x277
*Ind Appl/Ind Electronics	John Kovacik	708-272-8800x2972
*Laser & Electro-Optics	David Naylor	312-996-6010
*Nuclear and Plasma Sciences	Bob Camillone for Mary Scott	708-349-2790
*Power Electronics	Bob Korbett	708-202-8084
*Power Engineering	Phil Raush	312-269-2204
*Reliability	Dan Glab	708-520-4405
*Fox Valley Sub-Section	Channing Brown	312-269-2362
*Northwest Sub-Section	Howard Myers	815-459-0100
*Southland Sub-Section (ip)	Bob Camillone	708-349-2790

Planning is underway for three or four major conferences in the Chicago metropolitan area next spring as part of the VOA centennial. They will be regional in scope. Your participation is encouraged. Watch for announcements.

Program Committee	Bob Camillone, Chairman
	John Driver, CoChairman
	Hugh Edfors, CoChairman

A MEMBER'S TESTIMONIAL

The Chicago Section received its first "thank-you" note for helping one of our unemployed members find a job through a SCANFAX job listing:

"I have found and accepted a full-time position at...I found this position through an ad in IEEE SCANFAX. Thanks for all your help. Please terminate my listing...in SCANFAX. Thanks."

By the way, are there any other previously unemployed Chicago Section members who found a job as a result of a SCANFAX job ad? We do "reach out" to help our unemployed members with these ads, as well as by offering opportunities to meet your fellow engineers at our many technical meetings — the so-called "networking" technique which is one of the most effective methods according to our experts!

Meeting of the IEEE Communications Society (Chicago Chapter)

DATE: Wednesday, October 9, 1991
GUEST SPEAKER: Paul Odlyzko, Motorola
TOPIC: High Speed Wireless Communications within Buildings
PLACE: Sharko's Restaurant, 2225 Ogden Avenue, Lisle, IL
TIME/COST: Social: 6:00 PM - Cash Bar
Dinner: 7:00 PM - \$13.00
Speaker: 8:00 PM - FREE
RESERVATIONS: Call (708) 963-3828 to make dinner reservations by Monday, October 7, 1991.
FURTHER INQUIRIES: For further questions, contact Paul Bhugra at (708) 979-1901.
ABOUT THE TOPIC: Radio technology is being harnessed for data communications on an increasing scale, offering a new degree of flexibility in data networking. Recent product announcements include the NCR WAVELAN® and the Motorola Altair® systems. In addition, IEEE has formed the 802.11 standards committee to develop standards for wireless Local Area Networks.

This presentation will review issues pertinent to high speed wireless communications within buildings (including RF propagation, data protocols, standards, and FCC licensing), identify potential solutions, outline specific approaches taken by commercial vendors, and discuss future directions in high speed, high user density wireless networking.
ABOUT THE SPEAKER: Paul Odlyzko is Principal Staff Engineer at Motorola Altair Operations, where he concentrates on exploratory system designs. Paul began his engineering career in 1974, working on flight simulation systems at Link Simulation Company and then on telecommunication systems at ITT. He joined the Motorola Altair team in 1989.

Paul began his engineering education at the Technical University of Warsaw. He holds a BSc degree from Ottawa University and an MA degree from the State University of New York at Buffalo.

JOINT CHICAGO CHAPTER OF IEEE ANTENNAS AND PROPAGATION SOCIETY AND MICROWAVE THEORY AND TECHNIQUES SOCIETY AND CHICAGO CHAPTER OF IEEE LASERS AND ELECTRO-OPTICS SOCIETY

OCTOBER 1991 MEETING NOTICE

Some Relations Between Microwaves and Optics

PRESENTED BY
DR. JOHN R. WHINNERY
IEEE FELLOW AND LIFE MEMBER

Following Maxwell's explanations of light as an electromagnetic phenomenon, and confirming experiments of Hertz, Lord Rayleigh, J. J. Thomson and others provided many analyses of the interrelationships between light and electricity. Sources of short "radio" waves were limited, however, until the development of microwaves during World War II. The many quasi-optical techniques used with microwaves are well known, but the development of these provide a number of interesting case histories. Not so well known are the ties through circuit and signal theory. The field of ultrashort optical pulse generation borrows especially from radar techniques. These pulses, in turn, are now used for study of microwave devices and materials.

Many of these relationships were not well known until recently. Now there is a growing interest in the union, with conferences, special issues of the Transactions and tutorial papers devoted to this subject.

DATE: Monday, October 14, 1991
PLACE: The Atrium Restaurant 1st exit north of I90 off Rt.53
3223 Algonquin Road 1/4 mile east on Rt.62
Rolling Meadows, Ill. Algonquin Road
TIME: Social 5:30 PM Dinner 6:30 PM Meeting - 7:30 PM

Please make your reservations by noon on Friday, October 11, by calling (708) 963-3828. The dinner costs \$22.00 and is optioinal. A reservation is required, even if you plan to attend the meeting only. Non-IEEE members are welcome.

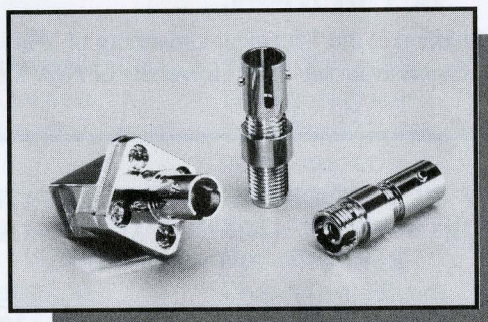
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- FC > ST
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- ST > SMA 906
- FC > SMA 906
- ST > MINI BNC
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- Panel and forum topics EC 1992, Malcom Baldrige award activities
- Total Quality Management activities, and ISO 9000 standards.

For information or registration, call College of DuPage 708 858 2800
2180 or 2594

IEEE CHICAGO SECTION – PLACEMENT SERVICE APPLICATION FORM

Prospective employers will receive the information on this form on request unless marked "CONFIDENTIAL" at the top of this form. Please notify us immediately if you accept employment to leave space for other search ads.

Each search ad will run in two consecutive monthly SCANFAX issues (not published during July and August). The submission deadlines for all imminent SCANFAX issues are listed elsewhere in this issue of SCANFAX. The number of search ads per issue may be limited by space constraints.

(please print)

Name _____ IEEE No. _____ Expir. Date _____

Address	IEEE Grade
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Please limit your text to the 99 spaces provided:

[illegible]

The IEEE and its Chicago Section waive any responsibility in determining the credibility, accuracy, or qualifications of applicants or employers.

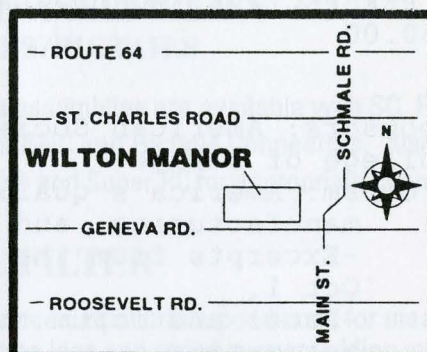
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FOX VALLEY SUBSECTION
with
COMPUTER SOCIETY AND ENGINEERING MANAGEMENT



TOPIC: Personal Project Management with Microsoft Windows
DATE: Tuesday, October 22nd, 1991
SPEAKER: Paul Balle
PLACE: Wilton Manor, Schmale Rd., Wheaton
TIME/COST: Social: 6:00 p.m. Cash Bar
Dinner: 7:00 p.m. \$13.00
Speaker: 8:00 p.m. Free*



RESERVATIONS: Call (708) 963-3828 to make reservations for Dinner and/or Meeting, **by Friday, October 18th, 1991.**

TECHNICAL QUESTIONS: Direct questions about topic or speaker to Dave Schumacher at (708) 224-6471.

* Note: While the meeting is free, recognize that the room is subsidized by the cost of the dinners. Attending the dinner helps to support our continued offering of interesting meetings.



IEEE

LASERS AND ELECTRO-OPTICS SOCIETY



Topic: Recent Advances in High Power Semiconductor Laser Diodes
Date: Thursday, October 24, 1991
Speaker: David F. Welch
Spectra Diode Laboratories

ABSTRACT: Recent advances in the performance of semiconductor lasers (output powers, efficiency, reliability and wavelength accessibility) have significantly increased the breadth of applications. David Welch will discuss both the design and characteristics of the laser diodes operating in the 630 nm through 980 nm range, methods for obtaining high power coherent sources, as well as the performance required for specific applications. Monolithically integrated master oscillator power amplifiers (M-MOPAs) will also be discussed.

Jerry Sharko's, 2225 Ogden Avenue, Lisle, Ill

Social:	6:00 p.m.	Cash Bar
Dinner:	7:00 p.m.	\$14 per person, \$7 for students
Technical Presentation:	8:00 p.m.	No Charge

Entree choices are Chicken Primavera or Orange Roughy. Advanced dinner reservations should be made by calling the IEEE Chicago Message Center at (708) 963-3828 by 5:00 p.m. on Tuesday October 22, 1991. For additional information, contact Bob Novotny at (708) 713-5419.