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Permit No. 479
Glen Ellyn, Illinois

Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • Dec. 1988

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 649-2800
(unless otherwise indicated)

Copy Deadline for January Scanfax is November 28, 1988

DEC. 6	Knowledge Engineering & Software Engineering	IAS/IES Calumet Section	Sheraton Inn 17400 South Halsted Homewood, IL (I294 & Halsted)	Social: 5:30 PM Dinner: 6:30 PM Meeting: 8:00 PM
DEC. 7	Electricity Transmission in a Competitive Environment	Power Engineering Society	Carson Pirie Scott Monroe & Wabash Corporate level	Social: 11:30 AM Lunch: 12:00 PM Meeting: 12:45 PM
DEC. 7	Video Camera Evolution	Fox Valley/ Consumer Electronics	Wilton Manor Schmale Road Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
DEC. 8	Integrated Photonics	LEOS/ UIC Student Chapter	UIC-Chicago Room 509 Circle Center 710 S. Halsted Chicago, IL	Social: 5:15 PM Meeting: 6:00 PM Dinner: 7:15 PM
DEC. 13	Monthly Meeting All Welcome	IEEE Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove, IL	Meeting: 7:15 PM

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SCANFAX, (Publication) number (ISSN 0018-1297), Dec. 1988 Volume 41, Number 4, 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—Suite 300, 820 North Orleans Street, Chicago, IL 60610, telephone number (312) 649-2800. Subscription rate for IEEE members collected in dues. \$1.50; others, \$15.00 per year. Third class postage paid at Glen Ellyn, Illinois.

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

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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. We cannot forward this information for you, so please do not send it to the local office.



THE INSTITUTE OF
ELECTRICAL AND
ELECTRONICS
ENGINEERS, INC.



FOX VALLEY SUBSECTION

together with the
CONSUMER ELECTRONICS SOCIETY

TOPIC: The Evolution of Video Camera Development

DATE: Wednesday, December 7, 1988

SPEAKER: Marvin Hobbs, P.E.

PLACE: Wilton Manor, Schmale Rd., Wheaton

TIME/COST: Social: 6:00 p.m. - Cash Bar

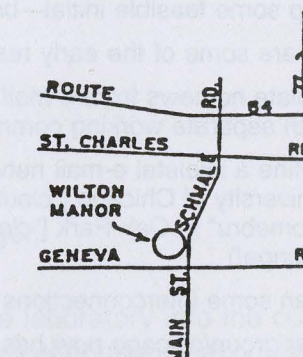
Dinner: 7:00 p.m. - \$11.00

Speaker: 8:00 p.m. - Free

RESERVATIONS: Call (312) 649-2800 to make reservations for Dinner and/or Meeting, by Monday, December 5, 1988.

ABSTRACT: The talk will cover the evolution of video camera development from Zworykin's iconoscope to the solid-state imagers. The early history of development is covered, with more detail on camera tube and solid-state imager development. Finally, trends in broadcast camera designs from multi-tube types to the present solid-state types are presented.

ABOUT OUR SPEAKER: Marvin Hobbs is a consulting engineer and registered Professional Engineer in the State of Illinois. The author of "SERVICING HOME VIDEOCASSETTE RECORDERS," Hobbs is soon to follow with "VIDEO CAMERAS AND CAMCORDERS," scheduled for publication in 1989. He holds a B.S.E.E. from Tri-State University and is a Senior Member of IEEE with Life Status and a Senior Member of the Society of Technical Communication.



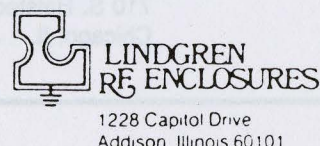
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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
Jan 89	Nov 28	Dec 15
Feb	Dec 26	Jan 15
Mar	Jan 30	Feb 15
Apr	Feb 27	Mar 15
May	Mar 27	Apr 15
June	Apr 24	May 15

THESE ARE FIRM DEADLINES!!!!

Attention: FOX VALLEY SUBSECTION MEMBERS

There will be no separate mailing to announce this program. Henceforth, please use SCANFAX exclusively for information on our Monthly Meetings.

B-170 Desire entry level software position. I am an EE with experience in ATE, Using HP Software/Hardware.

REPORT ON SEPTEMBER 24, 1988 ELECTRONIC MAIL (E-MAIL) SEMINAR

For IEEE's Chicago Section this was the first Seminar sponsored by this Section for many years (or ever?), in conjunction with its local Computer and Communications Society Chapter, as well as with the /usr/group/chicago chapter of a major national UNIX® user group. We also received significant financial and staff support from Tellabs Inc., Analysts International Corporation (AIC), and Lachman Associates Inc. (LAI). The synergy generated by these separate entities enables us to present a series of outstanding speakers to discuss the available strategies for replacing the all-knowing AT&T gateway node "ihnp4" ASAP by a local configuration of linked computer systems handling e-mail and/or netnews.

With the aid of a formal agenda and a huge set of handouts (over 200 pages duplicated by LAI's Karen Zelins and collated subsequently by Eleanor and Joe Feitler Feitler) we generated many constructive ideas, in addition to starting a series of subsequent technical meetings to set up some feasible initial—but separate—local networks for e-mail and for netnews.

Here are some of the early result of the Seminar:

isolate netnews from e-mail based on real-time availability and disk storage considerations, with separate working committees;

define a skeletal e-mail network node "clout" comprised of 3 separate computers at the University of Chicago ["clout-east(?)" near "gargoyle"], at LAI ["clout-west"(?)], and at "homebru" in Oak Park ["clout-central"(?)] as the master system. (These names may change!)

plan some interconnections to the BITNET, INTERNET, ARPANET (etc) networks

/usr/group/chicago now has some paid-up members, some new \$ to pay for its incorporation, a better definition of its "mission" in the greater Chicago area, and a growing nucleus of interested and talented people.

IEEE and its 2 participating Chapters attained a feeling of major professional accomplishment for our local members, at minimal financial risk, with a small surplus returned to IEEE.

Thanks again to all the speakers, participants, and the many "helpers behind the scenes".

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Joint Meeting IEEE Lasers and Electro-Optics Society CHICAGO CHAPTER and UIC—IEEE Student Chapter



Date: Thursday, December 8, 1988
Topic: Integrated Photonics
Speaker: Dr. S. Sriram, Photonics Products Manager,
Battelle Laboratories, Columbus, Ohio

ABSTRACT: Integrated optic devices have finally come out of the laboratory into the commercial marketplace, for applications such as sensors and fiber-based optical communication systems. Integrated optical devices based on lithium niobate, glass, and polymeric materials are currently available from several vendors. These devices offer performance advantages over conventional devices; in some instances they satisfy unique requirements. For instance, lithium niobate devices are intended as light modulators, glass based devices are applicable as optical multiplexers/demultiplexers in fiber optic communication systems, and polymeric devices can be used as low cost components in medical sensors and in automobiles. The talk will discuss methods of fabrication and a few applications of integrated photonic devices.

Social/Business Meeting: 5:15 PM University of Illinois at Chicago
Technical Presentation: 6:00 PM Room 509, Chicago Circle Center.
710 S. Halsted, Chicago

Dinner: 7:15 PM Greek Islands, Adams & Halsted

DIRECTIONS South on 90/94 (Dan Ryan Expressway)
Exit at Taylor
West on Taylor (1 Block) to Halsted
Park in Lot 4 on Halsted and Taylor

* Reservations are required for dinner seating. Reservations are also highly recommended for those who wish to attend the technical presentation only. Nonmembers are welcome. Please call the IEEE Message Center at 649-2800 by 5:00 PM on Tuesday, December 6, 1988 for reservations. For additional information, contact Tom Windhorn at 961-7922.

CALL FOR PAPERS

Paper Topics in All Areas of Consumer Electronics Including:

VIDEO TECHNOLOGY

Receivers, Projection TV, Cameras, VCRs, Digital TV, High Definition TV, Cable & Satellite Delivery Systems, TV Scrambling.

HOME INFORMATION SYSTEMS

Personal Computing Hardware, Software & Peripherals, Home Bus Control/Security Systems, Videotext & Teletext, Telephones & Accessories, Appliance Electronics, Electronic Games.

DESIGN & MANUFACTURING

CAD/CAM Techniques, Robotic Assembly, Packaging & Interconnections, EMI/EMC Compliance, Human Factors & Perception.

AUDIO

Digital Audio Systems, TV Multichannel Sound, Home & Mobile Audio Systems, 2-Way Radio, Music Electronics.

COMPONENTS

Image Sensors, Integrated Circuits, Batteries and Solar Cells, Hybrid and Surface Mount Technologies.

EMERGING TECHNOLOGIES

Electronic Photography, Smart Cards, Home Health Care Electronics, Personal Electronics, Automotive, Marine & Aviation Electronics, Voice Input/Output, Hard Copy Devices, Artificial Intelligence.

CONFERENCE INFORMATION

DATE:	June 7-9, 1989	TECHNICAL EXHIBITS:	Gene Frantz Texas Instruments P.O. Box 1443 M/S 701 Houston, TX 77251-1443 713-274-2254
PLACE:	The Westin Hotel - O'Hare Rosemont, IL <i>Convenient Rapid Transit to Downtown Chicago and EIA Consumer Electronics Show (June 3-6)</i>	HOSPITALITY SUITES:	Annmarie Mahallak M. Gottlieb Associates 6009 N. Milwaukee Avenue Chicago, IL 60646 312-775-1151 fax 312-775-8620
HIGHLIGHTS:	• Digest of Technical Papers • Evening Panel Discussion • Educational Sessions (June 6) • Spouse Program • Prizes for two best papers		

INSTRUCTIONS:

Ten copies of a 500-to 700-word summary for paper selection and a 35-word abstract for inclusion in the Advance Program must be received for paper selection purposes by January 20, 1989. Author's name, affiliation, complete mailing address, telephone number and telex/fax **MUST** appear on the summary.

Send U.S. papers to:
DIANE D. WILLIAMS
Conference Coordinator
131 Ledgewood Drive
Rochester, NY 14615
tel 716-865-2938

Send European papers to:
J. BERIERE
Philips Elcoma
BAE-2
Eindhoven, The Netherlands
tel 31-40-722497
fax 31-40-722861

Send Far East papers to:
CHOJURO YAMAMITSU
Central Research Lab
3-15 Yagumo-Nakamachi
Moriguchi City, Osaka, 570 Japan
tel 06-909-1121
fax 06-906-0177

Authors of accepted papers will be notified by February 10, 1989 and will be supplied an "Author's Kit" including special mats and instructions for preparing a camera-ready copy of the summary not to exceed two pages (including figures) for the **DIGEST OF TECHNICAL PAPERS**. This material must be submitted by March 17, 1989.

Full-length, camera-ready papers received at the time of the conference will receive priority attention for publication in the **TRANSACTIONS ON CONSUMER ELECTRONICS**. Papers should be limited to approximately 2500 words. Papers should be planned for a 20 minute presentation.

DEADLINES: January 20, 1989 for receipt of paper summaries; March 17, 1989 for receipt of Digest material.

Technical Program Chairman
Leander H. Hoke, Jr.
N.A.P. Consumer Electronics
P.O. Box 14810
I-40 & Straw Plains Pike
Knoxville, TN 37914-1810
tel 615-521-4644, fax 615-521-4891

Conference Chairman
Israel Kalish
David Sarnoff Research Center
Princeton, NJ 08540
tel 609-734-2413
fax 609-734-2225



Speaker: David A. Scholz
Assistant Vice President
Commonwealth Edison Company

Topic: Electricity Transmission in a Competitive Environment

Abstract: Recent discussion of competitive bidding, independent power production, and some measure of deregulation in the electric utility industry raises serious technical and economic concerns about access to the utility-owned transmission network and about the appropriate terms and conditions for transmission service. These concerns will be discussed along with some general observations about deregulation and increase competition.

Background of Speaker: David Scholz has worked at Commonwealth Edison for over 20 years. Most of his experience has been with rate and regulatory matters under the jurisdiction of the Illinois Commerce Commission and the Federal Energy Regulatory Commission. He has academic degrees in electrical engineering, law and business. Currently, he has general supervision of the Rate and Strategic Analysis Departments of the Company.

Date: December 7, 1988

Place: Carson Pirie Scott-Chicago (Monroe and Wabash); Corporate (lower) Level

Time: 11:30 Cocktails
12:00 Lunch (cost \$11.50 per person)
12:45 Presentation

Reservations may be made by calling the IEEE Chicago message center at 649-2800. Please leave name(s) and company name(s) for those wishing to attend.



Sponsored by the Consumer Electronics Society of the IEEE

MIDCON DIRECTOR ELECT

The Chicago Section is seeking an individual to serve as the section's representative on the MIDCON Board of Directors. George Thomas' term will expire in November of 1989. His replacement should be appointed by the Chicago Section Chairman no later than December 1988. Candidates interested in the position should submit their credentials to the Chicago Section Chairman by December 1, 1988.

A candidate must be an IEEE member in good standing and has served as a Chicago Section officer at either the chapter or section level. The individual should have served or plans to serve as either a chairman or vice-chairman of a MIDCON committee.

Service on the board consists of four year term requiring attendance at five annual meetings commencing in November of 1989. Andre Vacroux is the current junior board member and his term expires November of 1991.

Please do not underestimate the time commitments. The annual meeting requires a week and the annual show requires a week. During the year there are several one-day planning meetings. Your spouse is encouraged to attend the annual meeting.

The MIDCON Director position allows you to serve both the Chicago Section and your industry. Many fine acquaintances can be made during the nonrenewable term. Either Andre Vacroux or George Thomas is available to discuss the requirements of the position. Paul Jahn, George Thomas and Andre Vacroux will serve as a nominating committee and recommended to the chairman the committee's choice among the applications.

December Scanfax Please

Executive Committee Nominations

Joe Feitler, Section Chairman, announced the formation of the nominating committee at the October executive committee meeting. This committee is composed of past Section Chairmen currently residing in the Section. The committee seeks to fill the four officer positions; Chairman, Vice-Chairman, Treasurer and Secretary. The Bylaws stipulate that the officers must have served on the executive committee. Also, nominees are being sought for chairman of the nine section standing committees; Awards, Conference, Finance, Member Services, Professional Activities, Program, Publication, Special Events, and Student Activities.

Section members interested in nominating or serving on a section committee are encouraged to contact Ed Barrett, nominating committee chairman, at 312-297-5540.

continued on page 10

INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY ❖ CHICAGO CHAPTER ❖

December 6, 1988

Joint Meeting With Calumet Section Distinguished Speaker Series — Computer Society

Guest Speaker
DR. LEON S. LEVY

Leon S. Levy received his Ph.D. in Computer and Information Science from the University of Pennsylvania, Philadelphia, PA., and his MBA in Economics from Fairleigh Dickinson University. He was an Associate Professor of Computer Science at the University of Delaware from 1970 to 1979. Since joining AT&T Bell Laboratories in 1979, his work has been in the field of application code generation. In 1983 he won a Distinguished Staff Award from Bell Laboratories for this work. He was on leave for the academic year 1983-1984 as a Visiting Full Professor of Computer Science at Ben Gurion University in Beer Sheba, Israel. He is currently developing and teaching courses in artificial intelligence. He is the author of *Taming the Tiger: Software Engineering and Software Economics* and *Fundamental Concepts of Computer Science: Mathematical Foundations of Programming* and other texts in computer science as well as numerous other publications.

Knowledge Engineering and Software Engineering: Similarities and Differences

Dr. Levy's presentation is a survey of the development of expert systems in the industrial setting and their software engineering aspects. He explores the similarities and differences in the roles of software engineer and knowledge engineer.

LOCATION: Sheraton Homewood Inn
17400 Halsted St. (I294 & Halsted)
Homewood, IL Exit-Halsted South

TIME: 5:30 Refreshments
6:30 Dinner \$14.50
8:00 Speaker

Reservations

Reservations are required for dinner seating and reservations are highly recommended to assure seating for those who wish to attend the technical portion of the meeting only. There is no charge for those attending the technical meeting only. Guests are welcome.

Please call John Burke, Square D Co. at (312) 721-6031 or (219) 721-6031
by December 1 for Reservations.

REPORT FROM YOUR CHAIRMAN

In furthering my professional interests I have been attending more Chapter meetings than previously, just to find out what's new and exciting outside my personal fields of knowledge within IEEE.

This experience has been gratifying, either in refreshing some old knowledge or in discovering several exciting new ideas.

All of you might profit similarly to stimulate your intellectual appetites sated by your torrent of IEEE publications and by the various presentation sponsored by your own Chicago Chapters, over twenty of them.

We have been experiencing some difficulties with our new IEEE Chicago Message Center, such as unreported meeting reservations, slow operator response, delayed answers to questions beyond the service's knowledge, and others.

Please tell our Vice Chairman Bob Schrage (294-8442) about any unexpectedly poor or exceptionally nice response so he can help us improve this vital service.

Be sure that the 1989 budget form for your Subsection and Chapter has been submitted on a timely basis so your planned program can proceed on schedule. Your inputs on prospective speakers, tours, seminars (etc) are solicited, as well as your assistance in making them successful.

Bob Schrage's new forms showing the essential information for each such event should help us avoid omissions needed for answering telephone inquiries and reservation, in addition to giving a crosscheck against the SCANFAX meeting notices—remember the published deadline.

FAX transmissions to me at LAI (505-9133) prior to this deadline may help you. Also be sure your information is legible, complete, and correct, since we are on a tight publication schedule and poor "mindreaders".

Seasons Greetings and a Happy New Year to all of you and yours.

Joe Feitler (979-8023)

continued from page 8

The list of candidates will be published in the January Scanfax. Nominations by petition will be accepted by the nominating committee if accompanied by ten or more signatures and member numbers of Section IEEE members of at least member grade. Nominations will be closed at the February Executive Committee Meeting. Election Ballots will be published in the April Scanfax.

Subsections and Society Chapters nominate and elect officers at their meetings. The chairman of each of these IEEE entities also serve as part of the executive committee. Contact a Subsection or Chapter officer for details on their elections or to volunteer for a committee position. We all need your volunteer help and look forward to your support.



IEEE

IEEE CHICAGO SECTION PLACEMENT SERVICE – The Chicago Section is pleased to provide space, free of charge, for members who are seeking employment.

Members who wish to participate should fill out the form below and send it to the IEEE office. Your one line description will be printed in the next two issues of Scanfax. Employers who are interested, can phone the IEEE office, (649-2800), and will be given your name and phone number. If you have noted "confidential" on the form, we will take the names and numbers of the company representatives that call and inform you who they are so that you may contact them.

Sample ads:

N1 - Hybrid Microcircuit Designer - thick and thin film.

N2 - Heavy Electric Power Equipment Rep - proven sales record.

N3 - Technical Writer - specialized in military radar manuals.

We feel this is a positive step to help our members who are out of work. The program is intended for those who are at **Member Grade and above**.

IEEE CHICAGO SECTION SCANFAX PLACEMENT SERVICE

The information on this form will be given to prospective employers who call unless you note "CONFIDENTIAL" on the top of the form. If you accept employment, please notify us *immediately* so that we may clear our files.

Each ad will run in two consecutive issues of Scanfax. Deadline is the 25th of the second month preceding issue. For example, an application received on February 20 will be in the April issue; one received March 3 will be in the May issue. Scanfax is not published in July or August.

Name _____ IEEE No. _____ Expir. Date _____

Address _____ IEEE Grade _____

City/State _____ Zip _____ Phone _____

Please note your ad in the 99 spaces provided:

[illegible][illegible][illegible][illegible]

The IEEE waives any responsibility in determining the credibility, accuracy or qualifications of applicants or employers. Send this application to:

IEEE Placement Service
c/o Robert A. Schrage
Commonwealth Edison Co.
P.O. Box 767 - SMED-1835E
Chicago, IL 60690



THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

Announces the 17th Annual Competition for

1989-1990

Congressional Fellowships

A CONGRESSIONAL INTERNSHIP FOR MEMBERS OF IEEE

PROGRAM: Electrical and Electronics Engineers and Allied Scientists are competitively selected to serve a one-year term on the personal staff of individual Senators or Representatives or on the professional staff of Congressional Committees. The program includes an orientation session with other Science-Engineering Fellows sponsored by the American Association for the Advancement of Science (AAAS).

PURPOSE: To make practical contributions to more effective use of scientific and technical knowledge in government, to educate the scientific communities regarding the public policy process, and to broaden the perspective of both the scientific and governmental communities regarding the value of such science-government interaction.

CRITERIA: Fellows shall be selected based on technical competence, on ability to serve in a public environment and on evidence of service to the Institute and the profession. Specifically *excluded* as selection criteria shall be age, sex, creed, race, ethnic background, and partisan political affiliations. However, the Fellow must be a U.S. citizen at the time of selection and must have been in the IEEE at Member grade or higher for at least four years. Additional criteria may be established by the selection committee.

AWARDS: IEEE plans to award two Congressional Fellowships for the 1989-1990 term. Additional funding sources may permit expansion of awards.

APPLICATION: Further information and application forms can be obtained by calling W. Thomas Suttle (202) 785-0017 at the IEEE Washington, D.C. Office or by writing:

Secretary, Congressional Fellows Program
The Institute of Electrical and Electronics Engineers, Inc.
1111 Nineteenth St., N.W.
Suite 608
Washington, D.C. 20036

Applications must be postmarked no later than March 31, 1989 to be eligible for consideration.