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Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • Sept. 1987

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations call the IEEE office 255-3003
(unless otherwise indicated)

Copy Deadline for October Scanfax is August 31, 1987

SEPT. 15-17 "The Trade Show
For Our Industry"

MIDCON 87

Rosemont/O'Hare
Convention
Center

SEPT. 15 Monthly Meeting
ALL WELCOME

IEEE Executive Cte.

Allen-Bradley Company
910 Pasquinelli Dr.
Westmont, IL

Meeting 7:30 PM

SEPT. 15 Reliability Basics for
High Technology Equip-
ment and Systems

Reliability
Society

Midcon/87
Rosemont/O'Hare
Convention Center

3:30 - 5:30 PM

SEPT. 22 1987-88 Kick-Off Meeting
All Chicago Area
Subsections & Societies
ALL WELCOME

Wilton Manor
2200 N. Main St.
Wheaton, IL

Social: 6:00 PM
Dinner: 7:00 PM
Meeting: 8:00 PM

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SCANFAX, (Publication) number
(ISSN 0018-1297), Sept. 1987
Volume 40, Number 1, 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 3413 N. Kennicott
Ave., Arlington Heights, Illinois 60004,
telephone number (312) 255-3003.
Subscription rate for IEEE members
collected in dues. \$1.50; others, \$10.00
per year. Third class postage paid at
Glen Ellyn, Illinois.

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Section IEEE neither endorses nor
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espoused in SCANFAX.

Bob Hofmann, Editor
979-3627

James Carroll, Assoc. Editor
416-7277

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C.A. Larsen & Associates
(312) 255-3003

Change of Address

Send change of address to Roseann
Schulz, Member Services, IEEE Service
Center, 445 Hoes Lane, Piscataway, NJ
08854-4150. Include your SPECTRUM
mailing label if possible. We cannot
forward this information for you, so
please do not sent it to the local office.

A Message From Our New Section Chairman

September in the Chicago Section brings with it the start of a new program year. Many individuals in the active chapters and subsections work hard to provide the membership with quality meetings of interest throughout the year. A roster of these volunteers can be found elsewhere in this issue. Your help, comments, suggestions are welcomed by each of us.

As your new Chicago Section chairman, I follow in the footsteps of many dedicated individuals that have made many contributions to the well being of the Section. A Section as large as Chicago, serving about 6500 members, offers many challenges and responsibilities. My thanks to last year's chairman Bert Orszula for his leadership and efforts.

You may wish to note that the Chicago Section has moved its offices. This was a long hard decision that will allow for future expansion of local member services. I'm sure we'll all miss Elanore Burda's voice on the phone and her dedication to serving the needs of the IEEE members. I know I will. Our new office, C. A. Larsen and Associates is listed on the bottom of the roster page.

Don't miss MIDCON, at the Rosemont/O'Hare Convention Center from Sept 15 to 17. This is the trade show for our industry. It is directly supported by the Chicago Section and includes the volunteer efforts of many of your professional coworkers. The Chicago Section receives considerable financial support as a direct result of a successful MIDCON, so take time to visit the exhibits and perhaps some of the professional programs.

Ed Barrett, Incoming Chicago Section Chairman

More EMI/RFI Protection

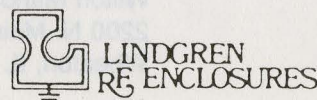
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ISSUE	COPY DUE	MAILED ON
Oct.	Aug. 31	Sep. 15
Nov.	Sept. 28	Oct. 15
Dec.	Oct. 26	Nov. 15
Jan. 1988	Nov. 30	Dec. 15
Feb.	Dec. 28	Jan. 15
Mar.	Jan. 25	Feb. 15
Apr.	Feb. 29	Mar. 15
May	March 28	April 15
June	April 25	May 15



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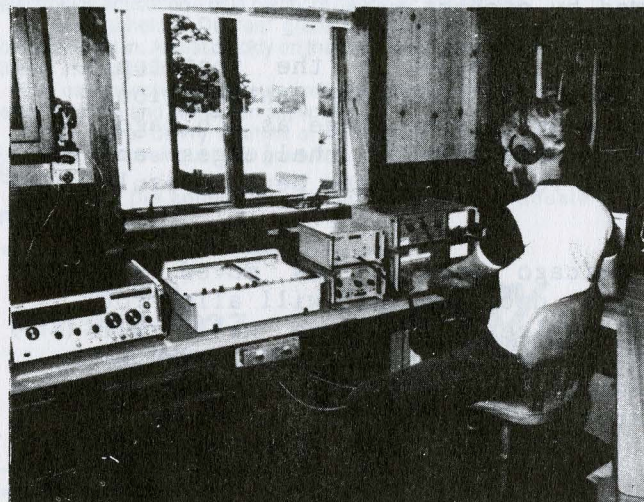
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ALL IEEE MEMBERS

See Page 5
for an important
announcement.

Look what makes D.L.S. the #1 test house for a growing number of engineers throughout the U.S.A.



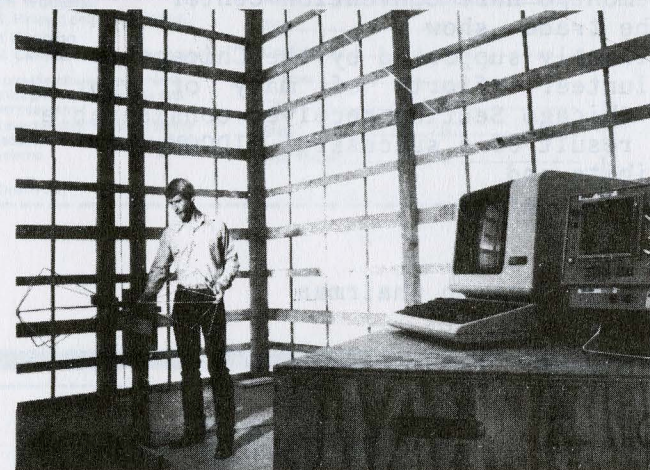
Approved by the National Bureau of Standards

D.L.S. is proud to be recognized by the National Bureau of Standards as an accredited FCC test facility. Being approved by NBS is one of the best ways to assure clients of both the validity of our test results, and our adherence to the stringent requirements of the FCC. To obtain NBS approval, not only were our testing procedures and test equipment closely inspected, but also comprehensive investigations were held at our Glenview lab and open field site. In addition, the NBS also conducted in-depth interviews with our test engineers.

D.L.S. provides a wide array of testing and consulting services including FCC parts 2, 5, 15 (subparts J, H, and others), 18, and 68, and VDE including 0871 and 0875. In addition, D.L.S. also provides Mil Std 461 emissions and susceptibility testing and its commercial counterpart which includes MDS, Bell Stds., and others.

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D.L.S.'s Genoa facility has been expanded to include a second test site. The site was carefully chosen because of the low ambient level of RF energy and because it meets the requirements of FCC Bulletin Ost 55. In addition, significant improvements have been made to our original all-weather test building. It is now totally climate controlled incorporating heating and air conditioning. We have also increased our electrical service so that we can continue to provide complete, professional testing to meet your growing demands.



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COMBINED SECTION MEETING ALL CHICAGO AREA SUBSECTIONS AND SOCIETIES

SEPTEMBER 22, 1987

1987-88 KICK-OFF MEETING

Take Charge of Your Career: Mid-Career Options and Considerations

Our speaker for this meeting will be Barbara J. Karchin, President of Karchin & Associates, Career Management Consultants and former Director of Career Planning and Placement, Illinois Benedictine College. Ms. Karchin has a Bachelor's degree from Case Western Reserve University with a major in Psychology and a Master's degree from Indiana University.

"What do I want to do with my life?" When faced with this question most people tend to avoid the issue or identify career options that may not utilize their strengths and talents. Career planning is a process, not a one-time decision. This meeting/workshop will examine your values, methods to evaluate career options, long and short term goals, what you want from work and what you can offer an employer.

The importance of NETWORKING will be discussed, how to learn about the Hidden Job Market through Networking and how to maintain such a pool of contacts, utilizing your colleagues in IEEE.

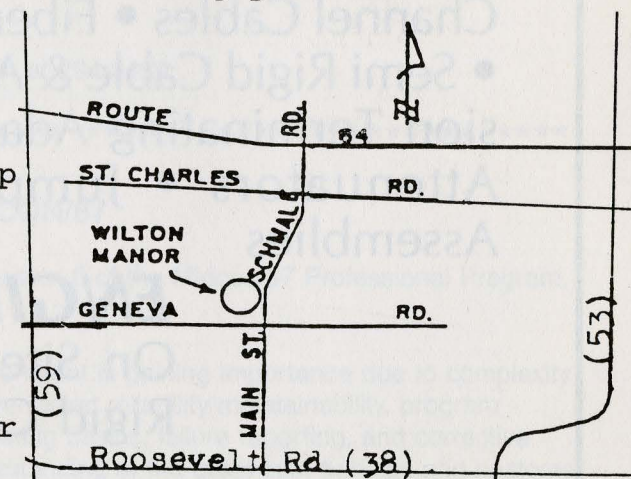
Fear of Change and how to cope with inevitable changes will be discussed. Using tools including a self assessment of your skills will be used to assist you in selling yourself to your current or new employer.

This meeting will be of interest to all engineers. So plan to attend and bring your spouse and/or a friend. Take advantage of your IEEE membership and participate in this outstanding program.

Location: Wilton Manor
2200 Main St.
Wheaton, IL

Time: Social: 6:00 pm Cash Bar
Dinner: 7:00 pm \$11.00
(\$10.00 if your reservation is made on or before Friday, September 18)
Meeting: 8:00 pm No charge. All Welcome

Reservation: Call Judy Larsen or Carolyn Glandt at 255-3003



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American Society for Engineering Management

CHICAGO SECTION

JOINT MEETING NOTICE

AMERICAN SOCIETY FOR ENGINEERING MANAGEMENT — CHICAGO SECTION

IEEE ENGINEERING MANAGEMENT/PROFESSIONAL COMMUNICATION CHAPTER

"How to work with consultants" — Panel Discussion

Clifford Evanson

Eli Port

Ron Taylor

Aberlin & Evanson

Radiation Safety Services Inc.

Software Electronics Corp.

Our three panelists represent three different types of consulting activity, but they share one thing in common: they've all had to work with engineering managers. Come to our meeting and learn how they survived the experience.

They'll discuss such topics as project definition, delivery deadlines, budgets and overruns, communications, and much, much more.

Date: Thursday, September 3, 1987

Place: Golden Ox Restaurant, 1578 N. Clyborn, Chicago

Socialize 6:00 PM

Dinner 6:45 PM (Order from the menu)

Panel discussion 7:45 PM

For reservations, phone Judy or Carolyn at SCANFAX 255-3003 by Tuesday, September 1, at 4:00 PM.

Our next meeting will be on Thursday, November 5, 1987. A speaker from the Illinois Resource Network will explain how IRN can help you find an appropriate consultant.

For further information call John Horwath at 827-3131 or Bill Everson at 294-8420.

RELIABILITY AT MIDCON/87

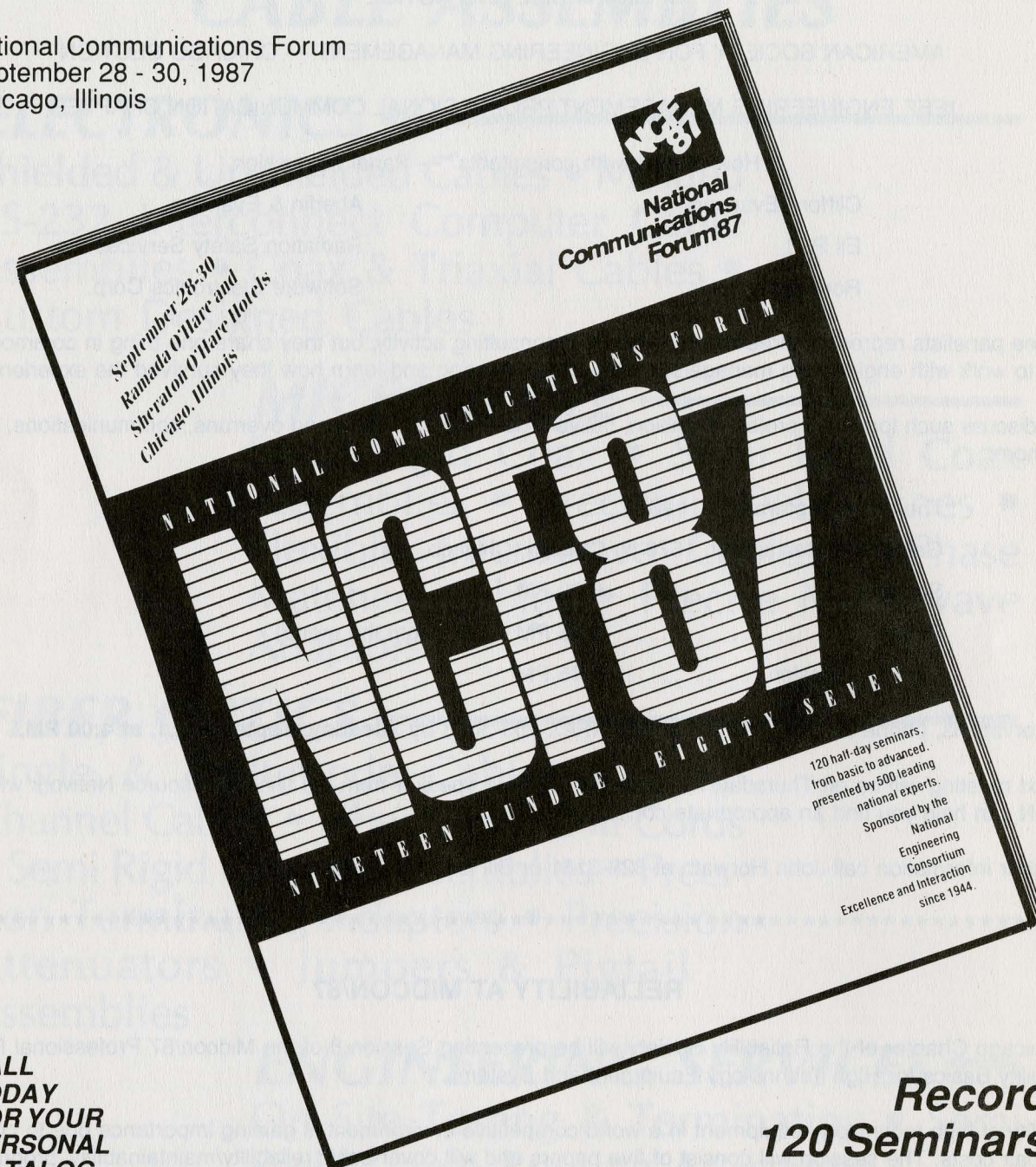
The Chicago Chapter of the Reliability Society will be presenting Session 8 of the Midcon/87 Professional Program, "Reliability Basics for High Technology Equipment and Systems."

Reliability of high technology equipment in a world competitive environment is gaining importance due to complexity and repair costs. The session will consist of five papers and will cover basic reliability/maintainability, program management, system reliability, FMECA, reliability demonstration, testing basics, failure reporting, and corrective action systems. It will give top management and engineers an understanding of the great cost benefits and customer satisfaction which is gained through the timely application of reliability in design, testing and analysis.

Plan your Midcon/87 visit to include this informative session. For more information call 1-800-421-6816 or Hugh Edfors at 312-794-8530.

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News from your Incoming Vice Chairman (and Outgoing Treasurer)

Here are some of my plans for the coming year:

1. Help our smaller Chapters grow by soliciting potential new members and by inviting recent graduates to join them; upon request, assist in setting up some joint meetings, find interesting speakers and meeting places, etc
2. Convert IEEE Hq's computerized mailing list into a PC application to produce specialized sets of labels
3. Transfer the Section's financial records to the Incoming Treasurer; and provide assistance to him, if necessary.

Special Reminder:

If you are responsible for conducting a Chapter/Subsection meeting, be sure to prepare a meeting report promptly and send a copy to the Section Secretary. Otherwise your particular entity may lose some badly needed Hq reimbursement (\$\$) which will reduce your potential income for the following year.

Hope to see your friends and you at our September 22nd Meeting.

Joe Feitler

MIDCON/87

IEEE SPONSORS DAY BANQUET

September 15, 1987 at the Regency Hyatt O'Hare, Rosemont, IL



Cocktail Reception	6:00 - 7:00 PM	Diplomat Room
Dinner	7:00 - 8:00 PM	Forum Room
Address	8:15 - 9:00 PM	

GUEST SPEAKER: Dr. Bruno Weinschel, IEEE fellow and past president, speaking on "U.S. Competitiveness."

This event is sponsored by both the Chicago Section and Region 4 who are also co-sponsors of MIDCON. This is an opportunity to meet the section, region and national leadership of IEEE. A short awards presentation will be made preceding Dr. Weinschel's talk.

Tickets for the reception and dinner program can be obtained for \$30. Contact Midcon/87 to reserve your seat at 800-421-6816.



NEW! 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 three issues of Scanfax. Employers who are interested, can phone the IEEE office, (236-4609), 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: AA - Hybrid Microcircuit Designer - thick and thin film.
AB - Heavy Electric Power Equipment Rep - proven sales record.
AC - 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 three consecutive issues of Scanfax. Deadline is the 25th of the second month preceeding 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.	EXPIRA. DATE
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ADDRESS	IEEE GRADE
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CITY/STATE	ZIP	PHONE
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Please note your ad in the 70 spaces provided:

[illegible][illegible][illegible]

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

IEEE Placement Service
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Arlington Heights, IL 60004

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 (255-3003) 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.

B70 — Sr. Electl. Proj. Engr. - nuclear & fossil power all aspects inc. I & C.

B77 — BSEE - entry level position in communication field.

B78 — BSEE - entry level position in electrical and electronic engineering.

B79 — BSEET - entry level position in field service or in house - excel. comm. skills.

B80 — Ph.D Bio/EE signal analysis, instrumentation or control systems.

B81 — Engineering or Mfg. Manager, experience in controls & instrumentation.

B82 — BSEE UIC, GPA 3.95 - seeking entry level electrical engineering position.

B83 — Relay Logic Designer - Railroad Signaling, PC Experience.

B84 — BSEE - entry level position in software - c, assembler, Pascal, and Fortran.

B85 — BSEE UIUC - seeking entry level position in communication systems.

B86 — I am seeking a position in computer hardware design and software development.

B87 — Sr. Proj. Engr./Mgr. Hitech Fac. Power Anal. Ups
DCPlants Bset + 20 yrs Exp.

B88 — Confidential BSEET - Entry level position in Electronic Eng. Ex. Comm. Skills.

B89 — Entry level in EEE Testing control systems and digital applications.

B90 — Elec. Eng. Mgr. 19 yrs High-Tech Mil. Systems
Exp. includes Servo Controls.

B91 — Seeks Design Engr. with Electronics Corp. - Chicago area.

B92 — BSEE - Entry level position in Electrical Engineering. Int. in Comm. Field.

B93 — Seeking an entry level system design position in communications field.

B94 — BSEE looking for entry level position in Electrical Engineering.

If you are an IEEE member and unemployed, use the form on page 10. Send to: IEEE Placement Service • 3413 N. Kennicott Avenue • Arlington Heights, IL 60004.

The September Chicago Section executive committee meeting will be held in conjunction with Midcon on Tuesday, September 15th, 1987 from 4:00 PM to 6:00 PM at the Delta Room in the Regency Hyatt O'Hare. This meeting is part of the IEEE Sponsor's Day activities.

NEURAL NETWORKS

an annotated bibliography in d BASE III
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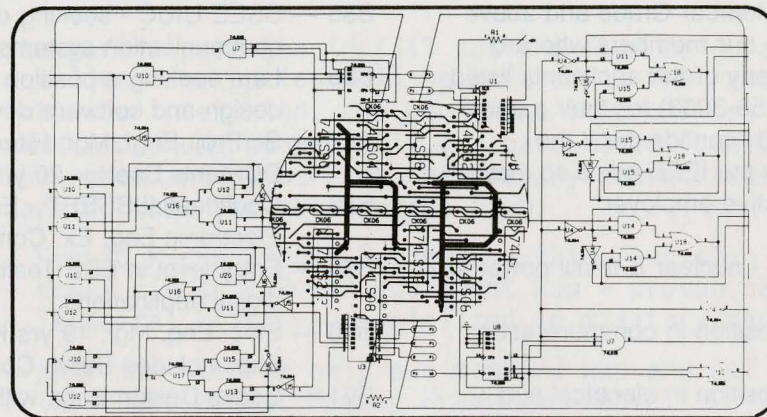
NEW SCANFAX PRINTER

Starting with this issue, Scanfax has a new printer, Graphix Products of Wheaton. They will be responsible for the final printing and mailing of Scanfax each month. Scanfax will continue to use mailing labels furnished by IEEE headquarters in New Jersey and all changes of address, etc., must clear through them.

Farnsworth Computer Center Offers You Design Tools For PCB Layout



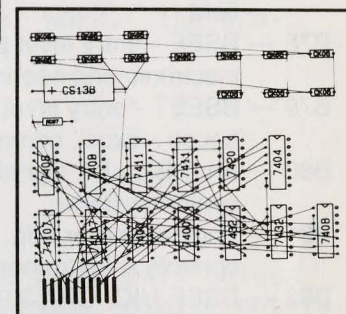
Farnsworth Computer Center offers you HP's high performance computers, printers, and plotters for your electronic design needs. Computer aided design systems from Farnsworth Computer include one year warranty on all components and an optional 24 hour loaner service is available to ensure minimum down time in the event that something does go wrong.



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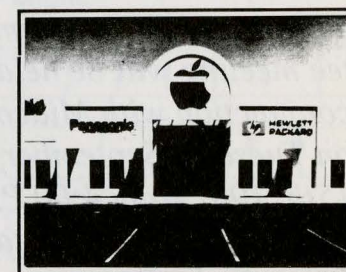
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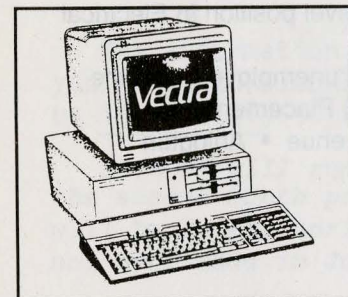
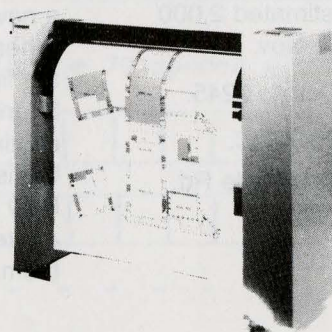
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- User defined macros
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- Microvitek RGB Monitor
- 1 Parallel and 2 Serial Ports

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Vehicular Technology Society
Electronic Devices Society
AP/MT Society

Computer Society
Power Engineering Society
EMB Society
Reliability Society
Communications Society
Engineering Mgmt. Society

- See Page 5 for an important announcement •

YOUNG ENGINEERS' FORUM 1987

Beginning on September 29, 1987, and for the following 5 weeks, the Young Engineers' Forum will conduct dinner meetings with lectures and discussions in which the audience is encouraged to participate.

Engineers with up to ten years' experience who have outstanding potential and who are seeking higher administrative responsibilities should attend.

OBJECTIVES:

Encourage engineers to practice self development and plan their careers.

Introduce techniques which will help engineers become more effective in their jobs.

Help engineers develop insight into themselves.

Develop an awareness of the many forces which influence one's career.

Provide an opportunity to meet authorities from various disciplines, both technical and non-technical.

TIME: A social hour begins at 5 p.m. with dinner at 5:45. The topic for the evening will be presented at 7:00. The meeting will conclude at 8:30.

PLACE: Union League Club of Chicago — 65 W. Jackson Blvd. — Chicago, IL

REGISTRATION: The registration fee is \$195.00 for each individual. This includes dinner for each session. For more information, please contact:

Western Society of Engineers — Suite 1734 Midland Building
176 West Adams Street, Chicago, IL 60603 (312) 372-3760



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- Value engineering experience a plus

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July 16, 1987

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