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

TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for April Scanfax is February 29, 1988

MAR. 08	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	ALLEN-BRADLEY Co. 910 Pasquinelli Dr. Westmont, IL	Meeting: 7:30 PM
MAR. 09	The inside story of high efficiency motors	IAS/IES	Mr. Peter's Restaurant 1018 Mount Prospect Ave. Mount Prospect, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
MAR. 09	Computer System Grounding	Power Engineering Society	Carson Pirie Scott & Co. Wabash & Monroe Sts. Highland Room - Corp. Level Downtown Chicago	Recept.: 11:30 AM Lunch: 12:00 Noon Meeting: 12:45 PM
MAR. 09	High Efficiency Electric Motors	IAS/IES	Mr. Peter's Restaurant 1018 Mount Prospect Ave. Mount Prospect, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
MAR. 10	The Mythical Man- Month Revisted	ACM/IEEE	Amoco Bldg. 200 E. Randolph Dr. Chicago, IL Rms. 4-8 third floor	Social: 5:30 PM Meeting: 6:30 PM
MAR. 15	Microwave Components & Systems	IEEE AP/MTT-S Sym. & Exhibition	Woodfield Hilton Hotel Lake Superior & Lake Michigan Rooms Arlington Heights	Exhibit: 4:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
MAR. 17	Mythical Man Month	IEEE Computer Society, (joint with ACM)	Wilton Manor 2200 Main St. Wheaton, IL	Social: 6:00 PM Dinner: 6:30 PM Meeting: 7:30 PM
MAR. 19	Fiber Optic Technology and Applications Seminar	Power Engineering Society	Wilton Manor 2200 N. Main St. Wheaton, IL	Reg.: 8:30 AM Meeting: 9:00 AM Lunch: 11:45 AM
MAR. 23	Reduced Instruction Set Computer Architecture	Fox Valley Section	Wilton Manor 2200 N. Main St. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM

Continued on Page 10

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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 SPECTRUM mailing label if possible. We cannot forward this information for you, so please do not send it to the local office.

SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
Apr.	Feb. 29	Mar. 15
May	March 28	April 15
June	April 25	May 15

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IEEE RECOGNITION DINNER

DATE: SATURDAY, APRIL 16, 1988

PLACE: THE WESTIN HOTEL O'HARE-ASTOR-ADAMS BALLROOM
6100 RIVER ROAD
ROSEMONT, IL 60018

PROGRAM FOR THE EVENING

COCKTAILS 6:00 P.M.
& Hors D'oeuvres

DINNER 7:00 P.M.

DONATION: \$30.00 PER PERSON

AWARDS

FELLOW: Robert H. Harner — S&C Electric Co.
Robert C. Arzbaeher — Illinois Inst. of Technology
Paul K. Giloth — AT&T Bell Laboratories

STUDENT: To be announced

ENTERTAINMENT: Charles Dink Freeman
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From Touch to Disco-Big Band Sound

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Enclosed is my check in the amount of \$_____ covering _____ tickets, at \$30.00 each for the 1988 IEEE Recognition Dinner at the Westin Hotel O'Hare, Rosemont, IL.

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Make check payable to: IEEE Recognition Dinner. Please mail by April 4, 1988.

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JOINT CHICAGO CHAPTER OF
IEEE ANTENNAS & PROPAGATION SOCIETY AND MICROWAVE THEORY
& TECHNIQUES SOCIETY

MARCH 1988 MEETING NOTICE

CHICAGOLAND IEEE AP/MTT-S SYMPOSIUM & EXHIBITION

Date: Tuesday, March 15, 1988

Place: Lake Superior & Lake Michigan Rooms
Woodfield Hilton Hotel
3400 W. Euclid Avenue
Arlington Heights, IL 60006

Time: Exhibit - 4:30 p.m.
Dinner - 6:30 p.m.
Meeting - 7:30 p.m.

An opportunity to interact with technical personnels and be informed
on the latest development in microwave components and systems.
Technical presentations as well as exhibition of new products will be
made.

Further information may be obtained from:

Clarence Arnow
Micro-Now Instrument Company
677-4700

and Alfred Feller
Feller Associates, Inc.
446-8065

Complimentary dinner will be provided (Breast of Chicken Champagne
Sauce or Pepper Steak Oriental). A reservation is helpful even if you
plan to attend the meeting only. Reservations may be made by calling
Clarence Arnow at 677-4700 before March 11, 1988. Please also
indicate your choice of entree when making dinner reservations.

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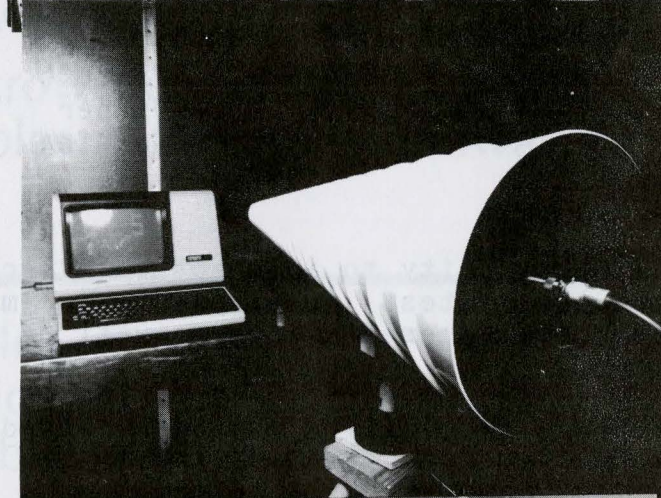
- DLS is conveniently located in Glenview, Illinois . . . only minutes away from O'Hare International Airport.

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POWER ENGINEERING SOCIETY

MEETING NOTICE

LUNCHEON MEETING

Wednesday, March 9, 1988

SPEAKER:	Paul Royalty Sales Manager, Product Support TOPAZ, INC. a subsidiary of SQUARE D COMPANY	
TOPIC:	Computer System Grounding	
ABSTRACT:	The presentation will include the purpose for computer system grounding. Five basic computer system ground types will be discussed, they include safety, data, isolated insulated and dedicated. Electrical distribution system grounding will also be addressed when installing a computer svstem.	
SPEAKER:	Paul Royalty graduated from Eastern Kentucky University with a Bachelor of Science degree in Industrial Technology. Topaz manufactures power conditioning equipment for computers and other sensitive electronic equipment. Paul has been with Topaz for more than five years. Prior to the acquisition of Topaz by Square D, Paul was an application engineer for the Distribution Equipment Division of Square D Company.	
LOCATION:	Carson Pirie, Scott & Co. Highland Room - Corporate Level Monroe & Wabash Downtown Chicago	Reception: 11:30 A.M. Lunch: 12:00 Noon Meeting: 12:45 P.M.

Lunch is \$11.00 per person.

Advance reservations should be made by calling Judy Larsen or Carolyn Glandt at 255-3003 before March 7, 1988.

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**POWER ENGINEERING SOCIETY
FIBER OPTIC TECHNOLOGY AND APPLICATIONS SEMINAR
SATURDAY, MARCH 19, 1988**

8:30 a.m.	Registration Wilton Manor 2200 N. Main St. Wheaton, IL	1:00 p.m.	Fiber Optics: Connections and Splicing Scott Grayman Product Manager Thomas and Betts
9:00 a.m.	Fundamentals and Utility Applications of Fiber Optics Barry Draper Pirelli Cable	2:00 p.m.	Coffee Break
10:00 a.m.	Coffee Break	2:15 p.m.	Power Plant Bottom Ash Programmable Controller Installation Utilizing Fiber Optics John Milinowski Project Engineer United Conveyor Corp.
10:15 a.m.	Fiber Optics as Applied in Industrial Applications. Nick Damuck National Sales Manager Eotec Corp.	3:15 p.m.	Using 50 Megabits per Second Fiber Optics in High Speed Distributed Real Time I/O Systems Robert T. Cleary Executive Vice President Kinetic Systems Corp.
11:45 a.m.	Lunch		

ADVANCE REGISTRATION

Please type or print:

Name _____
Position/title _____
Company _____
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Cost: IEEE Member \$50.00
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form to:

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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 (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.

- B120 — BSEE Highly motivated individual seeks a challenging position in soft. engr.
- B121 — BSEET Entry level field service, for communications and Software company.
- B122 — BSEE PE seeks design or plant engineering in Chicago area.
- B123 — BSEET seeking entry level position in communications field 1 + yrs. MILEXP
- B125 — MS Electronics seeking position in computer hardware design.
- B126 — MSCS seeking position teaching or developing computer software.
- B127 — BSME UIUC former US Army officer, seeking a position in Int'l sales.
- B128 — BSEE seeking entry level position. Interested in communications.
- B129 — BSEE seeking entry level position in power systems and/or control system.

- B130 — Plant or Mfg Engg Mgr - BSEE - Exp. in instrum/ducers/elec - mech contr.
- B131 — Microprocessor based system designer - hardware & software.
- B132 — Bradley EET Grad-5/88 - Technical sales, product design, B95, B98, B100, B104.
- B133 — BSEE IIT seeking position in communication systems SRF Design.
- B134 — MSEE Entry level position in communication and computer field.
- B135 — MSEE seeks position in consumer/ Automotive Electronics Chicago area.
- B136 — BSEET enthusiastic w/3yrs in Aerospace test requirements Comm/Aerospace.
- B137 — BSEET entry level position in communication and/or Data systems.
- B138 — BSEET entry level position in computer field or control system.
- B139 — PhD, seeking microwave Eng., measure, sintering, Heat., Plasma position.

If you are an IEEE member and unemployed, contact the IEEE Placement Service • 3413 N. Kennicott Avenue • Arlington Heights, IL 60004, at 255-3003 for an application form.

CALENDAR OF EVENTS

Continued from front cover

MAR. 24	Parts ESS	IEEE RELIABILITY/ Institute of Environmental Sciences	Arthur's Restaurant Des Plaines, IL	Reg.: 6:30 PM Dinner: 7:00 PM Meeting: 8:00 PM
APR. 13	Managing Automation for productivity	IEEE Northwest Subsection	Mr. Peter's Restaurant Mt. Prospect, IL	Social 5:30 PM Dinner: 6:15 PM Meeting: 7:15 PM
APR. 16	Recognition Dinner	IEEE Recognition Dinner	Westin Hotel 6100 River Road Rosemont, IL	Cocktails: 6:00 PM Dinner: 7:00 PM Donation: \$30.00 per person
APR. 21	Symbolic's new LISP chip	Computer Society (joint with ACM)	Wilton Manor 2200 Main St. Wheaton, IL	Social: 6:00 PM Dinner: 6:30 PM Meeting: 7:30 PM

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ARE YOU A LEADER OR A FOLLOWER?

Fine tune your leadership skills in the IEEE. Chicago Section can make available opportunities to improve and prove your leadership. You know you have the ability, and IEEE offers the chance to demonstrate those abilities.

The only requirements are IEEE membership and a desire to further your professional growth by giving a few hours each month. Whatever your experience, industry or IEEE affiliation the Chicago Section can find a position to use your talents to best advantage. Contact the IEEE office or any officer to become active. Three of our newest leaders are: Bob Tervin; Consumer Electronics Society Chairperson, Maryann Scott; Nuclear and Plasma Society Chairperson, and Erik Lindberg; Acoustic Speech and Signal Processing Chairperson. They and other chapter chairpersons can use your help.

The Chicago Section chapter of the Vehicular Technology chapter had been one of the more active chapters. However, lack of participation has resulted in this group becoming inactive. I know the chapter still has a strong membership and would hope to see it regain the prominence it once had. If you would like to help in this effort please contact Joe Feitler 312-979-8023 or Ed Barrett 312-455-6100 x488.



THE INSTITUTE OF
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FOX VALLEY SUBSECTION

Topic: Reduced Instruction Set Computer Architecture
Date: March 23, 1988
Speaker: John Johnson, Intel
Place: Wilton Manor, Schmale Rd., Wheaton
Time/Cost: Social: 6:00 P.M., Cash Bar
Dinner: 7:00 P.M., \$10
Speaker: 8:00 P.M., Free
Reservations: Call 255-3003 to make reservations for Dinner and/or meeting by 3/18/88.
Technical Questions: Call Dan Esposito at 979-8032 for any technical questions regarding the topic.

Our March meeting will be a presentation on the topic of Reduced Instruction Set Computer (RISC) architecture. RISC technology is quickly emerging as the microprocessor architecture of the future. John Johnson, Intel's Regional Application Specialist, will explain the RISC concept and discuss its impact on the future of commercial microprocessors. This meeting is jointly sponsored by Fox Valley Subsection and the Reliability Society. Hope to see you there.

NEW VOTING PROCEDURES FOR IEEE NATIONAL OFFICERS

As an avid reader facing a flood of technical literature which swamps my "in-box" (including electronic mail and IEEE publications), I suddenly encountered some startling — and conflicting — comments on a novel scheme to elect IEEE's top officers: "Preference Voting".

For example, "Election rules without shenanigans" is the heading for Computer Design's editorial (page 14 of the January 1, 1988 issue) which castigates IEEE's Board of Directors for changing the balloting rules without a constitutional amendment.

Similarly, the December 17, 1987 issue of Electronics magazine (pp 32-33) carries the headline "IEEE's New Vote Rules Weaken 'Third Parties'", which refers to "approval plurality voting" where members can vote for as many candidates as they choose, with the winner being determined by the largest vote count. Up to now, a typical slate containing 10 names to select 6 people allowed us to vote for a maximum of six candidates; the new process would remove this limitation.

This minimally publicized change without the customary approval by IEEE members eligible to vote merits our scrutiny, as well as our concern as to what our currently elected representatives intend to accomplish. Furthermore, the attendant publicity outside IEEE would tend to reflect unfavorably on our organization.

Your opinions and comments are solicited so that your Section Officers can proceed appropriately in accordance with our members' desires.

Joe Feitler, Section Vice Chairman



THE INSTITUTE OF
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INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY

CHICAGO CHAPTER

IEEE/IAS MEETING - MARCH 9, 1988

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PROGRAM COMMITTEE

CHAIRMAN

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DEERFIELD, IL 60015
(312) 945-8761

AGENDA

Social: 6:00 P.M.

Dinner: 7:00 P.M.

Meeting: 8:00 P.M.

Location: Mr. Peters Restaurant
1018 Mount Prospect Ave.
Mount Prospect, IL.

Presentation By: Keith Klontz, V.P. Engineering
McHenry Electric & Supply Co.

Topic: The inside story on High Efficiency
Electric Motors.

Mr. Klontz is an Electrical Engineer from University of Illinois in Champaign-Urbana. He is a past Chairman of IAS/IEC Chicago chapter and a Professional Engineer, registered in Illinois and Wisconsin.

Mr. Klontz oversees the design engineering for the rebuilding of motors and the sales engineering for new motor applications.

How do premium high efficiency motors compare to the industry "standard" motor? The program will discuss what a valid efficiency comparison and payback analysis depend on and exactly what goes into a motor to make it more efficient. Mr. Klontz will also discuss trade-offs that many users need to consider.

Reservations:

Please call Judy Larson at Association Management, (255-3003). Make reservations by Monday, February 8, 1988.

The cost for dinner is \$13.00. There is no charge for attending the meeting only.

A REPORT FROM YOUR SECTION VICE CHAIRMAN:

Here is a list of a few activities to keep busy during December and January:

Provided assistance to our Section Treasurer (with the loyal support of George Stout, our Finance Committee Chair) to resolve several discrepancies in our financial reports and to conduct our annual audit prior to submitting the required Annual Financial Report to IEEE Hq. As expected, this report contained several surprises, such as some modified items, confusing explanations for several essential items not clarified in recent years in spite of reporting them to Hq, and a few totals computed by "black magic" (explainable only from a prior report).

Responded to a member's inquiry about the length of time needed for updating an IEEE address record. Typically, it seems to take several weeks to fix the address, but any new mailing label may not show the correction until much later since we order our labels several months ahead to ensure their timely availability. Of course, around the year-end, label changes will peak because of the annual renewal cycle, frequently accompanied by late payments. At the recent Section Congress, IEEE's General Manager Eric Herz mentioned the concept of year-round billing, but that his staff had been unable to devise a practical plan to do so. Incidentally, my friend Merrill W. Buckley Jr., currently serving as IEEE's Executive Vice President, notified me of his intent to run for IEEE President later this year. Let me quote directly from his letter:

"Initiated and directed an Ad-Hoc study of the Institute's computer operations for a new Informations Systems Department (to bring the IEEE into the computer systems age)."

When I saw Merrill at the Section's Congress, I offered to assist his committee, but never received an invitation to join this taskforce.

Helped to organize the next two meetings for Computer Society since our Chapter Program Chair John North was particularly busy at AT&T Network Systems and also running for the Geneva schoolboard (regrettably he did not make it).

We are still waiting for the job descriptions from most of our Chapter and Subsection chairpeople which were requested previously.

Bob Hofmann, our SCANFAX editor, is looking for news items, pictures, and general interest articles to supplement our meeting announcements. For the latter he is especially looking for material where a delay in publication would not detract from its value. Therefore all Officers and committee chairpeople are invited to exercise their minds at their wordprocessors (or underutilized typewriters).

Our attempts to revitalize our inactive Chapters are continuing – we expect to hear about some of their plans very soon.

So please keep in touch with us to make the Chicago Section the very best for all of us.

Joe Feitler

Come to a Meeting Jointly Sponsored By Chicago Chapter, Association for Computing Machinery (ACM) Chicago Chapter, IEEE Computer Society Chicago Chapter, IEEE Engineering Management/Professional Communications Societies

DATE: Thursday, March 10th, 1988

TOPIC: The Mythical Man-Month Revisited

SPEAKER: Bill Rieken (an independent consultant)

LOCATION: Amoco Building, 200 E. Randolph Drive, Chicago
Meeting Rooms 4 - 8 on the third floor

TIME: 5:30 p.m. Cash Bar
Hors d'Oeuvres (\$6.00 for ACM/IEEE members; others \$7.00)

6:30 p.m. Talk
(by special arrangement with ACM, IEEE attendees coming for the talk only will be admitted free to conform to IEEE's rules)

IMPORTANT NOTE:

To ensure adequate space, reservations are MANDATORY for this meeting by calling Evelyn Marsh at 684-4962 before noon on Wednesday, March 9th.

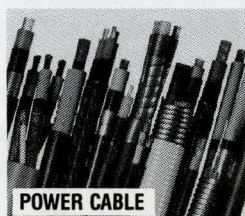
SYNOPSIS:

Harlan Mills notes that organizational effectiveness varies by an order of magnitude. This talk is a generalization of the "how to solve it" talk on individual performance related to Project Management issues that affect team performance. The wisdom shared in Fred Brook's book "The Mythical Man-Month" is evidence that we KNOW how to manage software projects. The eight attributes of ten well-managed companies presented in Tom Peters' book "In Search of Excellence" are used to distinguish organizations that successfully manage software projects.

The speaker, Past Chair of the ACM Golden Gate Chapter in the San Francisco area, is an independent consultant with eighteen years of experience at more than 30 clients, including IBM, AT&T, DEC, Amdahl, Bank of America, and Hewlett-Packard. He specializes in UNIX (a trademark of AT&T) training and consulting.

Mr. Rieken attended undergraduate courses in Mathematics and Computer Science at the University of California in Berkeley; in addition, he has taken several graduate courses at Stanford University.

From Rebuilding Industrial America to Installing an LAN...



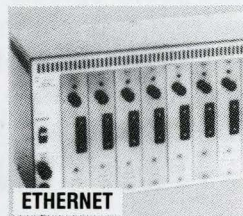
POWER CABLE



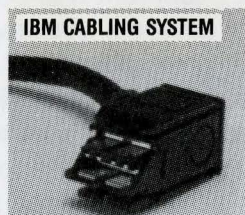
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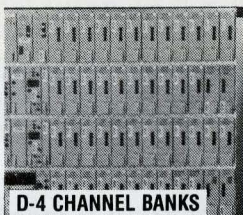
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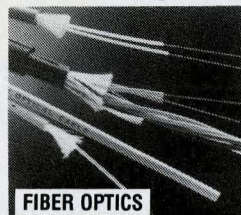
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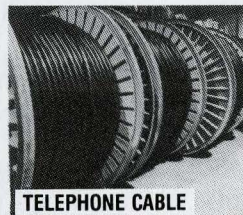
IBM CABLING SYSTEM



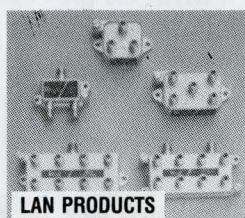
D-4 CHANNEL BANKS



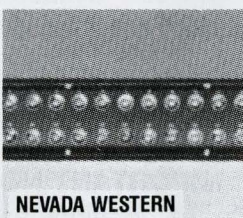
FIBER OPTICS



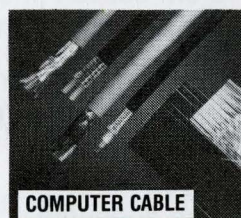
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