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TIME SENSITIVE MATERIAL



*Wishing you a
Joyful Holiday and a Happy New Year*

CALENDAR OF EVENTS

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

Copy Deadline for January Scanfax is Nov. 24, 1986

DEC. 3	"Consumer Elect: Rebirth of the Audio Industry"	Fox Valley Subsection	Wilton Manor 2200 N. Main St. Wheaton, IL	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
3	"Protecting Sensit. Electronic Loads from Power Line Disturbance"	Power Engrng. Soc.	Carson Pirie Scott Monroe & Wabash Sts. Highland Rm., 7th Fl.	Social 11:30 PM Lunch 12 Noon Meeting 12:30 PM
4	"IEEE 16th VideoConference"	For information look to pg. 7 for more details. For reservations call Eleanore Burda at 312/236-4609.		
10	"Underwriters Laboratories and Industrial Control"	IAS/IES Society	Mr. Peters Restaurant 1018 Mt. Prospect Ave. Mt. Prospect Shop. Plaza Mt. Prospect, IL	Cash Bar 5:30 PM Dinner 6:15 PM Program 7:15 PM

(continued on pg. 9)



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Bob Hofmann, Editor
979-3627

James Carroll, Assoc. Editor
979-5824

Eleanore Burda, Copy Manager
IEEE Office
(312) 236-4609

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



THE INSTITUTE OF
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FOX VALLEY SUBSECTION

Consumer Electronics: Rebirth of the Audio Industry Wednesday, December 3, 1986

Koss Stereophones, founded in 1958 with the introduction of the SP/3 stereophone, is the world's leading manufacturer of high fidelity stereo headphones. Based in Milwaukee, Wisconsin, Koss has met the threat of offshore competition in the consumer electronics industry without the aid of quotas or trade restrictions.

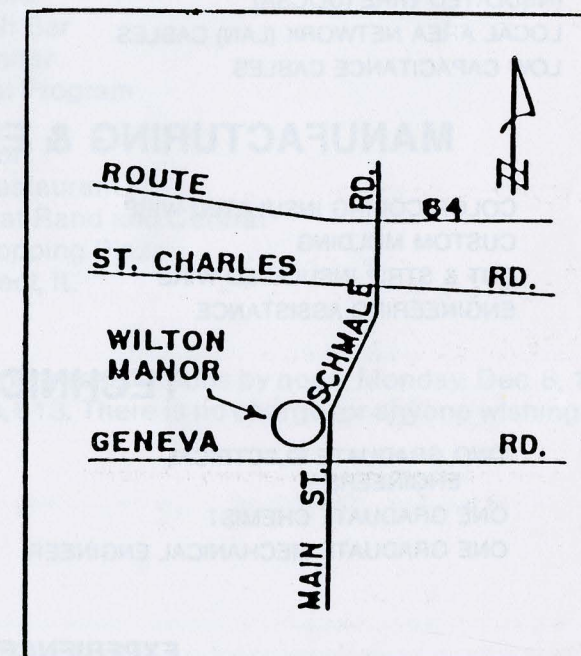
Michael Koss will discuss the history of his company, its troubles in 1984, and its subsequent return to profitability in its fiscal year 1986 concluded June 30. He will also highlight recent trends in the consumer electronics industry that spell future growth.

Location: Wilton Manor
2200 Main Street
Wheaton, IL

Time: Cash Bar 6:00 PM
Dinner 7:00 PM
Cost \$10.00
Meeting 8:00 PM

Dinner Reservations:

Call 312-236-4609 prior to
Monday, December 1.



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CHICAGO CHAPTER

IEEE/IAS Meeting - December 10, 1986

**Presentation by John Kovacik, Underwriters
Laboratories and Industrial Control**

**Topic - Use of Industrial Control Equipment
in Fire Pump Control Applications.**

Mr. Kovacik received his B.S. in Electrical Engineering from Bradley University in 1974. He has worked at Underwriters Laboratories for thirteen years in the Industrial Control Products Group. He is currently Engineering Group Leader. His experience includes investigation of medium voltage motor control, fire pump control and electronic power conversion equipment.

Schedule:
5:30 Cash Bar
6:15 Dinner
7:15 Technical Program

Location:
Mr. Peters Restaurant
1018 Mt. Prospect Ave. at Rand and Central
Mt. Prospect Shopping Plaza
Mt. Prospect, IL

Reservations:
Please call the Electric Association, 236-4609. to make dinner reservations by noon, Monday, Dec. 8, 1986. The cost for dinner for IEEE members is \$12, for non-members, \$13. There is no charge for anyone wishing to attend only the technical program portion of the meeting.



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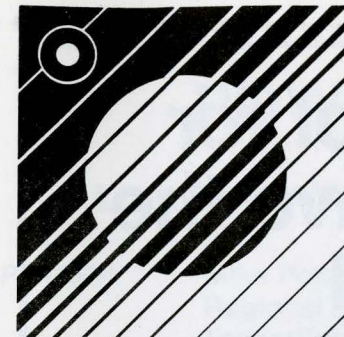
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IEEE VIDEOCONFERENCES
SEMINARS VIA SATELLITE

IEEE 16th Videoconference

DATA COMMUNICATIONS SYSTEMS

December 4, 1986 11:00 A.M. - 4:00 P.M. Eastern Time
(10:00 A.M. - 3:00 P.M. Central Time)

Isolated informations systems are the exception today, rather than the rule: nearly all contemporary computer systems, from micro to main frame, communicate. Data communications deals with the techniques by which machines communicate with their users, and with each other. This has been a very fast moving field, with important advances each year offering significant benefits to users, with the anticipation of still more changes and improvements to come. This videoconference focuses on a few data communications issues of particular contemporary interest: Network Security, Local Area Networks and Integrated Services Digital Networks. Each presentation will cover some of the theoretical background, progress to date, sample commercial products, and a forecast of future developments. Viewers will have the opportunity to phone in questions to the presenters.

INTENDED AUDIENCE:

This program provides an updating on significant current topics in data communications. As such, it is suitable both for current practitioners (including developers, managers and users of data communications systems), as well as those who may be considering the need to get involved with data communications. It is expected that the audience will have some experience with computers and communications, but not necessarily at a highly technical level.

KEY SEMINAR ELEMENTS

- Data Communications Security
- Local Area Networks (LANs)
- Integrated Services Digital Networks (ISDN)

SUPPORTING DOCUMENTATION:

- A Complete Set of Notes
- Charts
- Presenters' Biographies

FUTURE TOPICS:

- Optical Discs
February 26, 1987
- Computer Integrated
Manufacturing
May 13, 1987
- Electronic Packaging
September 22, 1987
- Micro Contamination Control
December 2, 1987

LOCAL INFORMATION

Time: 9:45 A.M. - 3:00 P.M.
Location: Stuart Building
Ill. Inst. of Tech.
10 West 31st Street
Chicago, Ill.

For more details call:

Eleanore at 312/236 4609

PROGRAM OUTLINE:

Dr. Marshall D. Abrams

Network Security

- Introduction and Overview
- Open System Interconnection
- Security Services
- Security Service Mechanisms

Dr. Ira W. Cotton

Progress in Local Area Networks

- Introduction and motivation
- LAN technology components
- Representative commercial products
- Technical and market trends

Mr. Eric L. Scace

Emergence of ISDN

- Driving Forces
- Technical Overview
- Evolution of Networks
- Critical Issues

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Please register me for the "Data Communications Systems" videoconference

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Company Address _____

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IEEE Member Number _____ Fee Enclosed _____

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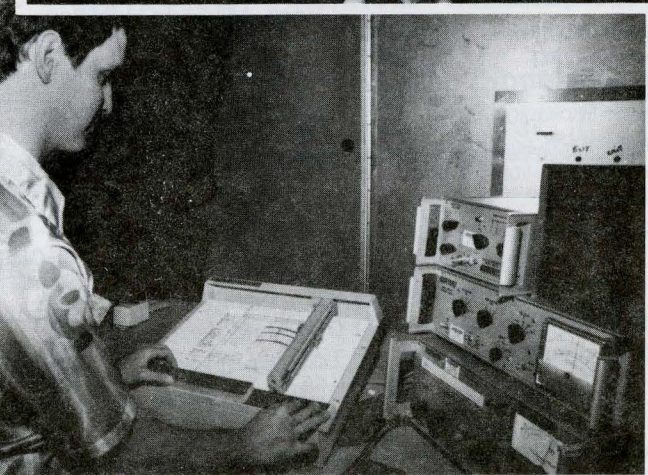
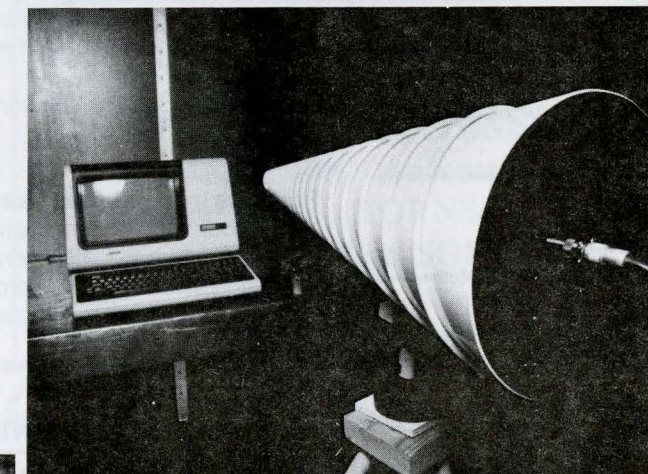
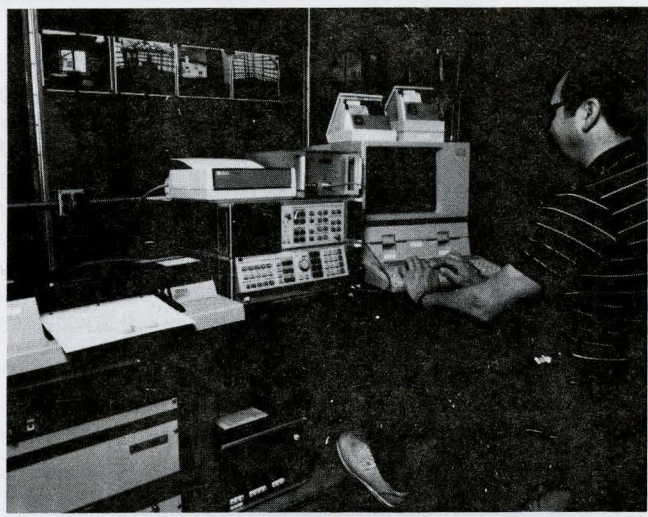
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POWER ENGINEERING SOCIETY

Luncheon Meeting

Wednesday, December 3, 1986

SPEAKER: Mike Potaniec
Regional Sales Manager
Topaz/Square D Company

TOPIC: Protecting Sensitive Electronic Loads From Power Line Disturbances

ABSTRACT: Mr. Potaniec will outline the causes of A.C. power disturbances as observed in commercial and industrial environments. Mike will discuss the problems created by these disturbances upon sensitive electronic loads such as computers and micro-processor based equipment and solutions to these critical problems. The solutions discussed will include isolation transformers, voltage regulators, power conditioners and UPS equipment.

SPEAKER: Mike Potaniec has a Bachelor of Science Degree in Marketing with emphasis in Computer Science and Economics. Mike has been employed by Topaz/Square D for two years as Regional Sales Manager, responsible for eight sales engineers and fourteen states.

Prior to Topaz, Mike spent ten years with the Burroughs Corporation. His last assignment was a Branch Sales Manager in Chicago. Mike has a wide range of experience in computer based applications and power conditioning.

LOCATION: Carson, Pirie, Scott & Company
Highland Room
Monroe & Wabash
Downtown Chicago

Cocktails: 11:30 AM
Lunch: 12:00 Noon
Meeting: 1:00 PM

Lunch is \$12.00 per person. Advance reservations should be made by calling Eleanore Burda at 236-4609. For further information contact John Whelan at Klockner-Moeller at 593-0980.

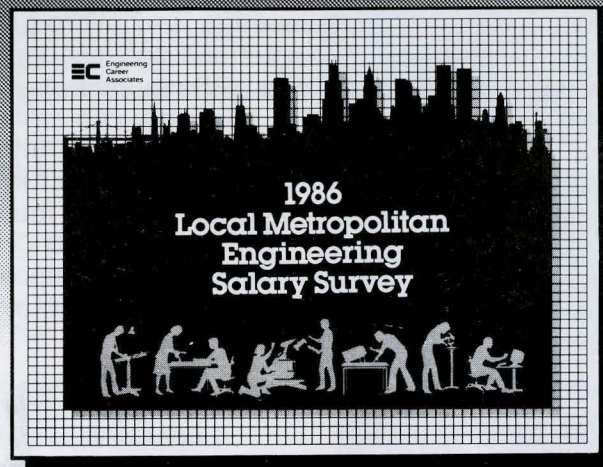
CALENDAR OF EVENTS

(continued from pg. 1)

HAPPY NEW YEAR!				
1987				
JAN. 7	"Programmable Controllers in the Utility Environ."	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm., 8th Fl.	Social 11:30 AM Lunch 12 Noon Meeting 12:30 PM
13	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Allen-Bradley Company 910 Pasquinelli Dr. Westmont, IL	Meeting 7:30 PM
14	"Smart Transmitters and Progress in Field Bus Tech."	IAS/IES Society (joint with ISA)	Mr. Peter's Restaurant 1018 Mount Prospect Rd. Mount Prospect, IL	Social 5:30 PM Dinner 6:15 PM Meeting 7:15 PM
28	"Artificial Intelligence - Imaging"	Fox Valley Subsection	Wilton Manor 2200 Main St. Wheaton, IL	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM

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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.

- B42 — BSEE from UIC - automation and digital control, management exp.
- B43 — MSEE control systems/senior level.
- B44 — BSEET GPA 3.32 entry level position in software or field service engr.
- B45 — Sr. Project Engr. - factory automation, robotics, vision, AI, CAD/CAM, communica. software develop.
- B46 — Telecommunications Analyst - exp. in central office, PBX & key system development.

- B47 — Elect/Electronic Proj. Engr. - ECM microwave industrial cntrl. eqp. BSGN eng.
- B48 — Engineering Manager - electronics rel. qual. ESD - extensive component exp.
- B49 — BSEE - UIUC looking for entry level position in analog electronics.
- B50 — Bio-medical/clinical & instrument design - desire part time - instructor E.E.
- B51 — Plant engineer high voltage dist. electl. main. machine main. or multi-faced plant support.
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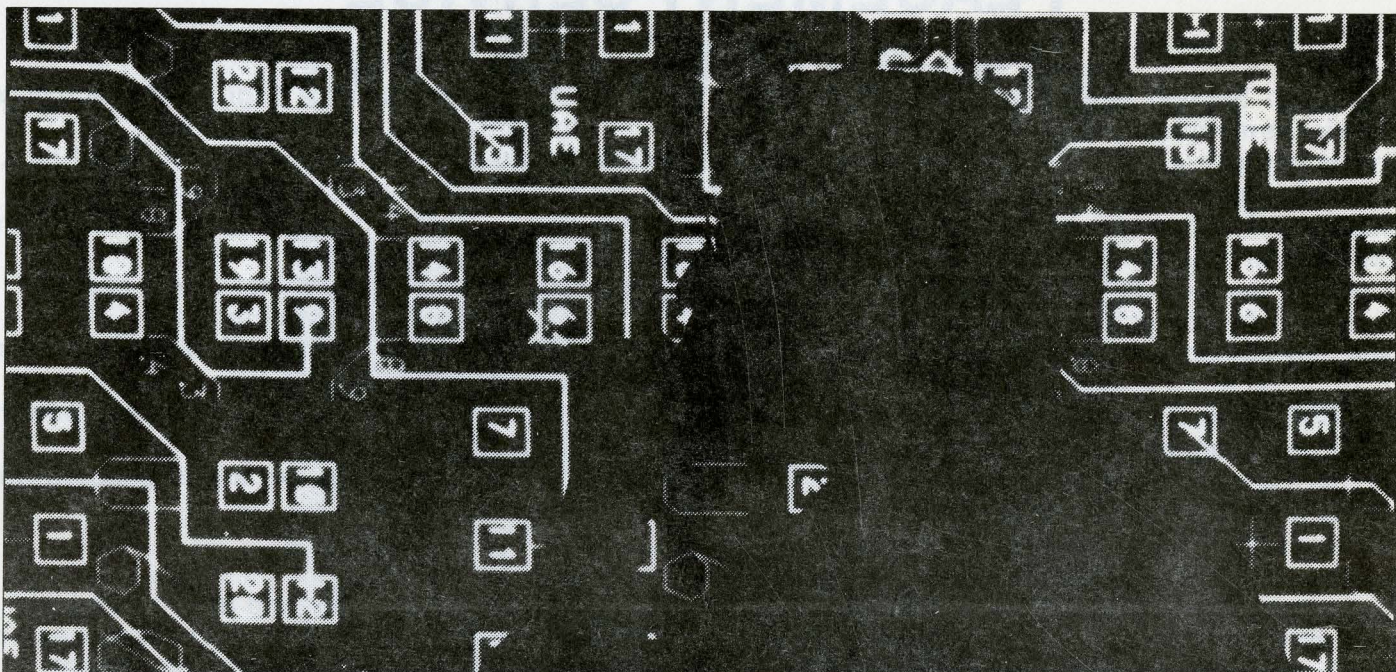
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ATTENTION ALL CHICAGO SECTION MEMBERS:

Mark your calendar n-o-w so that you don't forget to attend the social event of the year. Yes, it's the IEEE Chicago Section Recognition Dinner. Hank Korman, 1987 Recognition Dinner Chairman has announced the date is Saturday - April 11 and locale is the Westin Hotel O'Hare in Rosemont. More details in forthcoming issues of Scanfax.

11



Eye On The Future

"New discoveries in science will continue to create a thousand new frontiers for those who would still adventure."

—Herbert Hoover

A scientist spearheads a technological advance by treating a challenge not as an obstacle, but as an incentive—an inspiration to push beyond current technological boundaries. A wall of opposition becomes a window of opportunity because of an individual's determination to build the achievements of tomorrow out of the problems of today.

Manager, Reliability Engineering

BSEE or equivalent, (MSEE preferred), and 8-10 years of reliability engineering experience including 3 years as a manager within an electronics manufacturing environment. Familiarity with military specifications is preferred. Assume responsibility for a staff of 20+ engineers. Position will lead reliability design efforts for all division programs.

Sr. Project Engineer: Receiver Technology

BSEE or equivalent. Advanced Degree preferred. Experience (12+ years) with receivers including project management and staff supervision. Knowledge of broadband receivers, video processing, digital signal processing, high speed log amps, filters, signal characterization, microwave integrated circuits, hybrids, and surface mount technology required.

Sr. Manufacturing Engineer

BSEE, BSME or equivalent, and 5-10 years experience within a military electronics environment. Will support manufacturing in the specification of technologies and fabricating processes utilized in the assembly of surface mounted devices, leadless chips, and power supplies used in military airborne electronic countermeasures systems. Must provide necessary expertise associated with the resolution of problems inherent to new product introduction into assembly. Familiarity with automated material handling and processing assembly technologies required.

Antenna Design Engineers

BSEE or Physics or equivalent, MS desirable. Requires knowledge

of phased arrays, monopulse D.F. systems and millimeter wave techniques.

Power Supply Design Engineers

BSEE or equivalent, MS desirable. Perform IR & D activities involving new techniques development in high voltage microwave/millimeter wave transmission, nanosecond control of high DC voltages and modulation of microwave tube devices.

Advanced Technology Engineers

MICROWAVE: Active and/or passive microwave and millimeter wave integrated circuit design experience involving components such as oscillators, amplifiers, mixers, detectors and filters and integrated subsystems. Experience with monolithic microwave integrated circuit research design/development and computer-aided design is required.

RECEIVERS: Conceptual design, fabrication, and test of state-of-the-art receiver systems for ECM/Elint applications. Familiarity with systems architecture, signal processing, and channelized, set-on, and micro-scan techniques is desirable.

ANALOG: Specialists in videoamplifiers, filters, A/D and D/A conversion; background should include feedback theory analysis and computer-aided circuit analysis.

DIGITAL: Design/develop high speed signal processing and control systems; microprocessor controlled hardware, D/A and A/D conversion, digital signal processing utilizing very high speed logic, TTI, ECL, CMOS, GaAs, Gate Arrays and Pal's.

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