

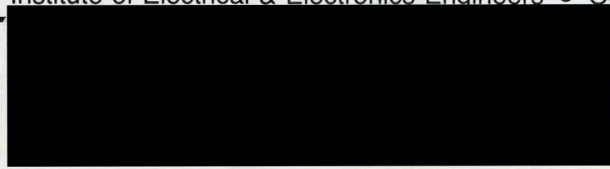


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Official Publication of the Chicago Section • Institute of Electrical & Electronics Engineers • Oct. 1987



TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for November Scanfax is September 28, 1987

OCT. 13	Monthly Meeting ALL WELCOME	IEEE Executive Cte.	Allen-Bradley Company 910 Pasquinelli Dr. Westmont, IL	Meeting: 7:15 PM
OCT. 14	Rotating UPS Technology	Power Engineering Society	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm., 8th Fl.	Social: 11:30 AM Lunch: 12 Noon Meeting: 1:00 PM
To be announced	"Superconductivity"	Industry Appls. Soc/ Industrial Electronics Society	Mr. Peter's Restaurant 1018 Mount Prospect Ave. Mount Prosepect, IL	Social: 5:30 PM Dinner: 6:15 PM Meeting: 7:15 PM
OCT. 28	Superconducting Supercolliders	Fox Valley Subsection	Wilton Manor Schmale Rd. Wheaton, IL	Social: 6:00 PM Dinner: 7:00 PM Meeting: 8:00 PM
NOV. 5	How To Find A Consultant	Engrng. Management/ Profes. Comms. Soc. EM/PC	Golden Ox Rest. 1758 N. Clybourn Chicago, IL	Social: 6:00 PM Dinner: 6:45 PM Meeting: 7:45 PM
NOV. 7	Tour of Fermi	Fox Valley Subsection All IEEE Members invited	Fermilab Near Batavia	12:00 Noon (For information, call 510-6372 or IEEE 255-3003)
NOV. 13	COMPUTING—WHAT'S NEW? 25th Anniversary Synmposium ENTER (your__application, our__system)	Association for Computing Machinery ACM Chicago Chapter	Museum of Science and Industry 57th & South Shore Drive	Afternoon and Evening Program (For information, call: 312-684-4962)

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SCANFAX, (Publication) number (ISSN 0018-1297), Oct. 1987 Volume 40, 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 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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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.

A Message From Our Section Chairman

This month the IEEE is holding a Sections Congress in Anaheim, CA. This event sponsored by the Regional Activities Board has two major themes; "Program and Support for Sections, Chapters and Members" and "Strengthening Continuing Education Programs Worldwide". The topics were derived from section input and needs as seen from the section level. In addition some 15 or more tutorials and presentations are planned to improve Section operations and expand services to members. The Chicago Section will be represented by Joe Feitler and myself.

During the past year a committee has been hard at work revising the Chicago Section bylaws which in addition to IEEE's bylaws govern the local operation of the Section. Some of the areas that the bylaws deal with are elections, duties of officers, meetings, boundaries, and committees. The revised bylaws have recently been approved by headquarters and I wish to thank committee members Dennis Lamont and Bill Everson for their efforts in seeing this task to completion.

You can directly contribute to the health of the Chicago Section by endorsing new membership applications. Let your colleagues know you're an IEEE member. Henry Dwyer, member services chairman, (see Sept. Scanfax) can provide applications and other assistance. When endorsing an application please fill in the event code at the bottom of the application with S040011. This code credits Chicago Section with the new member.

Ed Barrett

Chairperson

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ISSUE	COPY DUE	MAILED ON
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

Please join the Fox Valley Subsection in mourning the loss of one of our members, Frank J. Chiocca, Jr. He died August 15, 1987. He is survived by his wife and six children. Frank had graduated from IIT with a B.S. Electrical Engineering. Frank was employed by MEB-CAM Engineering, Ltd. in Warrenville. He was a licensed Professional Engineer. Within the Fox Valley Subsection, he had been in charge of arrangements for meetings for the past 5 years. Frank will be remembered for his reliable service and his delightful sense of humor.

Argonne named as center for superconductor study

Argonne National Laboratory was named by President Reagan Tuesday as the national center to develop ways to use new superconductivity technology, meaning the West suburban facility could become a magnet to federal research dollars, officials said.

Reagan's announcement was released as he spoke at a conference on superconductivity in Washington, D.C., where he urged that scientific breakthroughs in the field quickly find uses in the marketplace.

"It puts us right on the leading edge of what is the science breakthrough of the 1980s," said Harry Connor, an Argonne spokesman.

He said 50 scientists at the facility already are working on superconductor applications.

"We were the first to fabricate superconducting wire," he said. "We were the first to put electrical current through a superconducting wire."

Superconductivity is the process

by which electricity is conducted with virtually no loss of energy, making its transmission almost perfectly efficient. Low-cost power for uses from high-speed trains to home and industrial energy needs are envisioned as ways the technology can be used.

The designation of Argonne could mean more staff would be added at the facility, but dimensions of any expanded programs to come were unclear, said Brian Quirke, a spokesman for the U.S. Department of Energy's Chicago Operations Office at Argonne.

It is unlikely that any new buildings would be needed at Argonne, but as much as \$5 million to \$10 million a year in new funding could come to the research facility, he said.

While corporate and university researchers have discovered new materials which have superconducting capabilities, Argonne researchers have developed more materials in more usable form

than anyone else, he said.

Several hundred grams of materials in forms including foil and wire have been created at Argonne, he said.

Federal money already appropriated could be transferred to Argonne if it is not being used elsewhere, and new money could be appropriated to the facility as Congress fashions a budget for the next fiscal year, which begins Oct. 1, Connor said.

The wire formed at Argonne can superconduct at the temperature of liquid nitrogen, and materials that can conduct at warmer temperatures are being sought, Connor said.

Private sector researchers may be included in the research.

"Argonne's mix of human and technical resources makes it uniquely suited to lead the federal government's research effort," said Hilary Rauch, manager of the federal energy department's Chicago office.

A C M SIGAda

A C M SIGAda Local Chicago Chapter Meeting Notice

Our first meeting is scheduled for Monday evening on October 19, 1987. Our guest speaker will be Mr. Hal Hart, Vice Chairperson of Liaison of the ACM Special Interest Group on Ada, currently at TRW in Redondo Beach, California. For more details and reservations, please contact:

Fred Maymir-Ducharme
AT&T Bell Laboratories
IX 1F-456
1200 E. Warrentonville
Naperville, IL 60566
(312) 979-0776
ihnp4!ihlpf!fredrick

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INDUSTRY APPLICATIONS SOCIETY INDUSTRIAL ELECTRONICS SOCIETY CHICAGO CHAPTER

1987—1988

Program Kick-Off Meeting

To be announced
"Superconductivity"

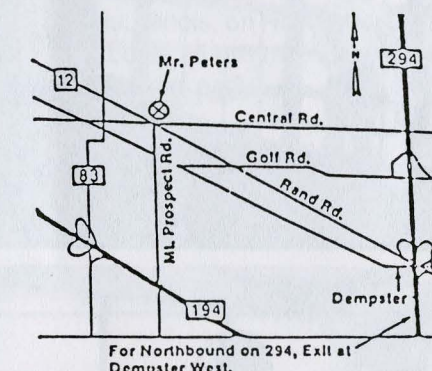
Guest Speaker

Dr. Frank Y. Fradin

Associate Laboratory Director for Physical Research
Argonne National Laboratory Argonne, IL

Dr. Frank Fradin, associate laboratory director for physical research, has responsibility for all research and development on high temperature superconductors at Argonne. Dr. Fradin is a fellow of the American Physical Society, and a member of the Basic Energy Science Advisory Committee. He serves as divisional associate editor of the Physical Review Letters, and will also be on the International Advisory Board to the 1988 Conference on High Temperature Superconductors. He is a visiting professor of physics at Northern Illinois University and served earlier as a visiting professor at Northwestern University. Dr. Fradin received his bachelor's degree from Massachusetts Institute of Technology, and his master's and Ph.D from the University of Illinois, Urbana.

Location	Time
Mr. Peter's Banquets 1018 Mt. Prospect Ave. at Rand and Central Mt. Prospect Shopping Center Mt. Prospect, IL	
	5:30 Cash Bar
	6:15 Dinner
	7:15 Technical Program



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. The cost of the dinner is \$12.00. There is no charge for those attending the technical meeting only. Guests are welcome.

Please call Judy Larsen at Association Management at 255-3003 by October 13th for reservations.

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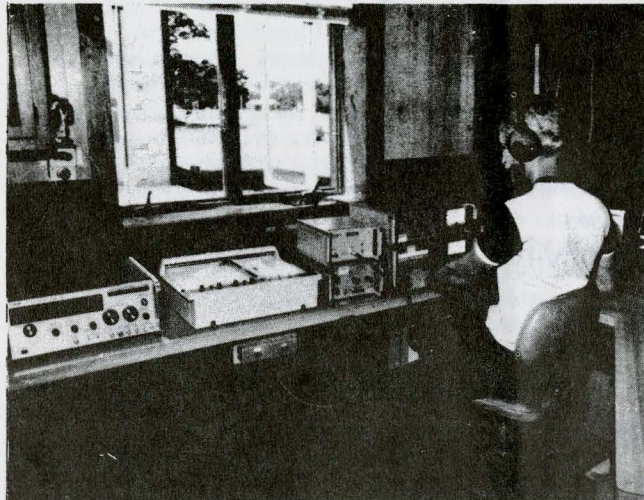
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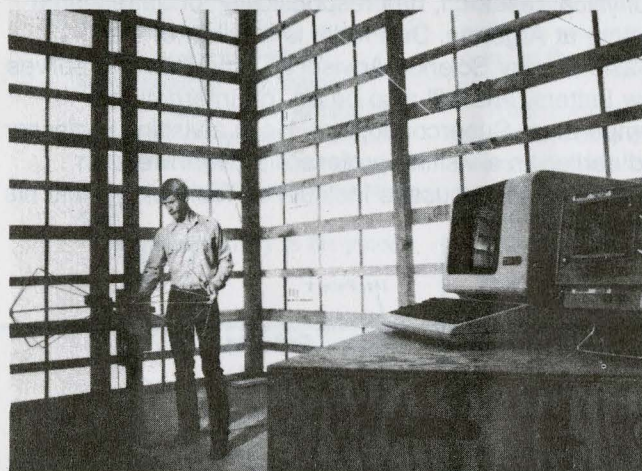
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IAS/IES Seminar

The IEEE Industry Application Society/Industrial Electronics Society is sponsoring a technical seminar:

"PRO TECT"

This seminar is directed to electronic and power design engineers who use overcurrent protective devices.

Topics that will be covered:

- * Standards: UL, CSA, SEMKO, SEV, VDE, DEMKO
- * NATIONAL ELECTRICAL CODE
- * FUSE AND CIRCUIT BREAKER ANALYSIS
- * SEMICONDUCTOR PROTECTION
- * AC/DC APPLICATIONS
- * PRINTED CIRCUIT BOARD PROTECTION
- * FUTURE CONSIDERATIONS

New developments in surface mount for printed circuit boards, Thin and Thick film technology, and miniaturization of fuses for relatively high power applications, will be discussed.

The seminar will be held at the Holiday Inn Crowne Plaza in Lisle, Illinois, on November 12, 1987, from 9:00am.-4:00pm. Cost for the seminar is \$25.00. The cost will cover all text materials and lunch. Reservations are required and priority will be given to those who register early.

For further information, please contact: John Waters or James Paul of Bussmann Manufacturing, at 312-534-2734. In cooperation with Bussmann Manufacturing.

Important Notice from the Editor

Information to go into Scanfax must reach me by the deadline on Page 2. It must be double-spaced standard size type, 10 or 12 characters per inch. I cannot accept late materials, and will refuse all small size type font materials.

H. R. Hofmann

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IEEE RELIABILITY SOCIETY

Tentative Program

This year has been off to a good start for the Chicago chapter of the Reliability Society given the strong showing of its members at the Midcon/87 Chicago conferences. The 1987-1988 program schedule promises a wide variety of activities for our members, and points to our desire for active membership. Come and join us, participate in programs tentatively scheduled as follows:

- OCT. 15 Business Planning Meeting
Place: Midway Motor Inn, Elk Grove
Time: 6:30 pm
- NOV. 19 Environmental Stress Screening
Joint Meeting with IES
Place and Time: To be announced
- DEC. 4 Family Dinner/Theater outing to Lincolnshire
- JAN. 26-28, 1988 Reliability & Maintainability Symposium
Place: San Diego, California
- FEB. 18 Joint meeting with NW section

For further information on these programs you may call Mike Ero at 312-979-1712 or the Program Chairman Paul Evans at 312-673-8300.

New Officers of Chicago Joint Chapter of Antennas & Propagation/Microwave Theory & Techniques Societies

Based on the election conducted on June 30, 1987, the new officers of the AP/MTT Chicago Chapter, effective July 1, 1987, are:

Chairman: Dr. Thomas T. Y. Wong
Department of Electrical & Computer Engineering
Illinois Institute of Technology
Chicago, Illinois 60616

(312) 567-5796

Vice Chairman: Mr. Wayne R. Openlander
3132 N. Lowell Avenue
Chicago, Illinois 60641

(312) 283-1690

Secretary/Treasurer: Mr. Charles F. Clark
Northrop Defense Systems Division
600 Hicks Road
Rolling Meadows, Illinois 60008

(312) 259-9600

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.

- B-70 — Sr. Elect. Proj. Engr. Nuclear & fossil power all aspects incl. I & C
- B-80 — Ph.D BIOE/EE signal analysis, instrumentation or control systems
- B-81 — Engineering or mfg. manager, experience in controls & instrumentation
- B-82 — BSEE UIC, GPA, 3.95 seeking entry level electrical engineering position
- B-84 — BSEE entry level position in software - C, assembler, Pascal, and Fortran
- B-85 — BSEE UIUC - seeking entry level position in communication systems
- B-86 — I am seeking a position in computer hardware design and software development
- B-87 — Sr. Proj. engr./Mgr. HiTech Fac. Power anal. UPS DC plants B set + 20 yrs. exp.
- B-88 — Confidential BSEE + entry level position in electronic Eng. ex. comm. skills
- B-89 — Entry level in EEE, testing control systems and digital applications
- B-90 — Elec. Eng. Mgr. 19 yrs. high-Tech mil Systems exp. includes servo controls
- B-91 — Seeks design Engr. with electronics corp. in Chicago area
- B-92 — BSEE entry level position in electrical engineering. Int. in comm. field

- B-93 — Seeking an entry level system design position in communications field
- B-94 — BSEE looking for entry level position in electrical engineering
- B-95 — BSEET entry level position in marketing or customer service
- B-96 — BSEE entry level electl. Engr. position license Engr. in training
- B-97 — CAE/CAD/CAM sys. dev. engr. & proj. leader; BSEE, MSCS, + 15 yrs. exp.
- B-98 — BSEET entry level position in the field of computer hardware/software
- B-99 — BSEE IIT, seeking position with Chicago area electrical contractor
- B100 — BSEET sales, consult on system installation routing of cables
- B101 — MSEE seeks position in consumer/ automotive electronics Chicago area
- B102 — Plant or Mfg. Engr. Mgr. BSEE exp. in instrum/Xducers/elec. mech. contr.
- B103 — PhD, seeking position AI mfg. & design automation, controls, robotics
- B104 — Temporary or permanent electrical engineering position (entry level)
- B105 — MSEE entry level position in communication theory and fiber optics
- B106 — BSEE, BSCS - looking for entry-level software eng Pursuing MSCS
- B107 — BSEE - entry level pos. in electrical & electronic eng. Int. in Comm. field

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



POWER ENGINEERING SOCIETY

LUNCHEON MEETING

WEDNESDAY, OCTOBER 14, 1987

SPEAKER: Thomas Lappe
President
PROFESSIONAL TECHNICAL SYSTEMS, INC.

TOPIC: Rotating U.P.S. Technology

ABSTRACT: We are all familiar with Solid State UPS Systems and may have forgotten that rotary systems still exist. Not only do they exist, but many technological improvements have been made in recent years that make them desirable for many applications. Mr. Lappe will discuss these advances and potential applications. His presentation outline is as follows:

- I. Theory of Operation
- II. Comparison of Rotary vs. Other Technologies
- III. Rotary UPS Configurations

SPEAKER: Thomas Lappe is a graduate of the University of Missouri Electrical Engineering Program. Eleven years experience in Uninterruptible Power Supply (UPS) field, including seven years as Field Engineer. Three years as Regional Sales Manager with Emergency Power Engineering (EPE). Currently, President of Professional Technical Systems, Inc., sales representative for EPE in the Chicago area.

LOCATION: Carson Pirie, Scott & Co.
Highland Room-Corporate Level
Monroe & Wabash
Downtown Chicago

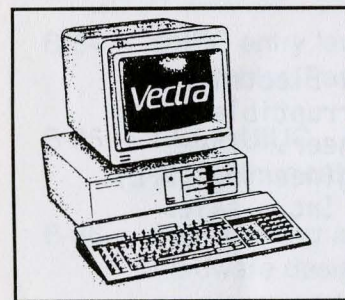
Cocktails: 11:30 A.M.
Lunch: 12:00 Noon
Meeting: 1:00 P.M.

Advance Reservations should be made by calling Judy Larsen or Carolyn Glandt at 255-3003.

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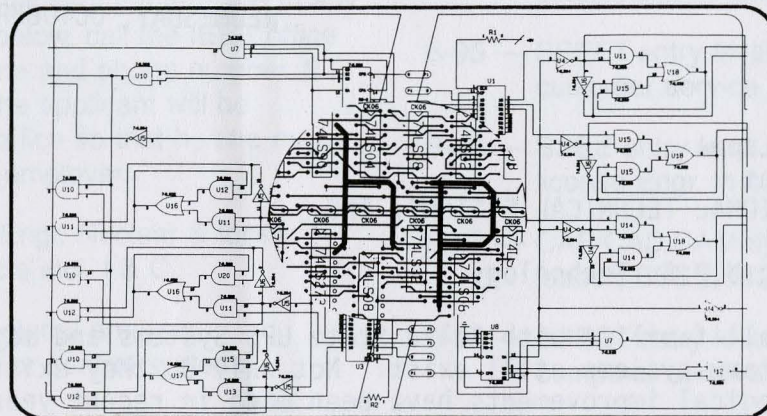
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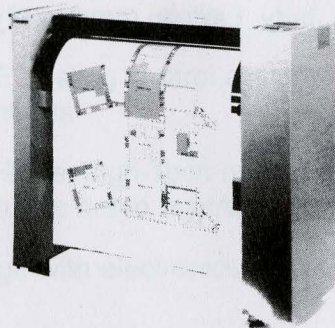


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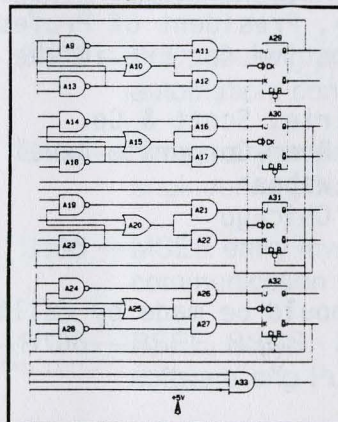
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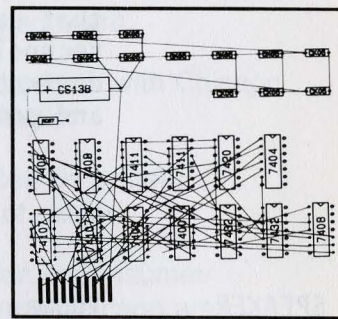


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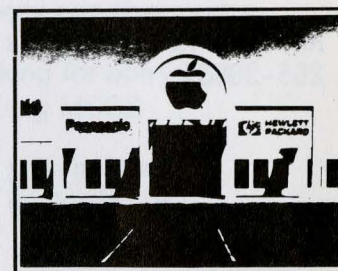
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KICKOFF MEETING OF THE CHICAGO CHAPTER OF THE IEEE COMMUNICATIONS SOCIETY

October 21, 1987

Technical Subject: McDonald's ISDN Field Trials

Our speaker for this meeting will be Jim Bendel, District Manager of Operations and Termination Interface Planning at Illinois Bell Telephone. Mr. Bendel will speak on the Integrated Services Digital Networks (ISDN) Field Trial which is being conducted by a joint effort of McDonald's, IBT, and AT&T.

In addition, nominations will be accepted for candidates. A dinner will precede the meeting so that we can socialize and get a chance to talk with Jim Bendel. However, the dinner is not mandatory, and anyone can attend only the meeting.

Pre-meeting dinner:

Place: Old Peking Restaurant, 1563 Naperville Road, Naperville
(one block north of Ogden Ave.)

Time: 6:00

Price: \$10.00 if you make reservations on or before October 19
\$11.00 if reservations are made after this date

Meeting:

Place: Lachman Associates, 1901 North Naper Blvd., Naperville
(off Warrenville Rd., just across the street from
AT&T Bell Labs—Take the Naperville exit off the East-West tollway)

Time: 7:30

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

For further information: Call Ken Smolik at 416-4789 or Maurice Givens at 933-5289.

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FOX VALLEY SUBSECTION

TOPIC: Superconducting Supercolliders
DATE: October 28, 1987
SPEAKER: Dr. Joseph Lach, Fermi
PLACE: Wilton Manor, Schmale Rd., Wheaton
TIME: Social 6:00 PM
Dinner: 7:00 PM
Speaker: 8:00 PM

The Fox Valley Subsection will be hosting a presentation by Dr. Joseph Lach of the Fermi National Accelerator Laboratory on the topic of: "Superconducting Supercolliders". His speech will concentrate on updating what is currently going on in this field and Fermi's activities in this area.

Dr. Lach received his B.A. and M.S. of Physics from University of Chicago. He received his Ph.D. in Physics from University of California at Berkeley, where his thesis topic was on pion production in proton proton collisions under Emilio Serge. He has been a Research Assistant and Associate Professor in the Department of Physics at Yale. He joined the staff of Fermi in 1969.

He has worked in the following areas: an Experimental program in the study of high energy proton interactions in the Fermilab 30 bubble chamber, a high precision study of elastic scattering, a continuing program to study the properties of hyperons. He has about 150 publications.

He has toured Japanese high energy physics facilities, been Chairman of the Gordon Research on elementary particle interactions, had active and continuing research collaboration with the Leningrad Nuclear Physics Institute in the USSR. He also has visited the USSR seven times as a guest of the Soviet Academy of Sciences.

He is married and has two children. He is a member of the following: The American Physical Society, The Sierra Club, Physicians for Social Responsibility (Chicago Executive Committee) and Research Affiliate of the Illinois State Geological Survey.

A MESSAGE FROM YOUR SECTION VICE-CHAIRMAN

At the last Section Meeting I was asked to serve as Chairperson for creating a new Chicago Section Operations Guide. This is intended to be a set of job descriptions and other useful information to be prepared by each of the Section's Officers, Committee Chairmen, and Chapter/Subsection Chairpeople. Then this material will be available for their successors to simplify the process of "learning the ropes" as a new Officer. So start sending in your reports soon, please.

We plan to update this material to encourage more Section members to serve as officers and Chairpeople, so that we can improve our services to our members, have more and even better meetings, and arouse the enthusiasm of newer members—particularly among our recent graduates.

Ed Barrett and I are looking forward to the IEEE Sections Congress in mid-October. We'll report our impressions to you upon our return.

As stated previously, please call me at 979-8023 if we can help you with your Chapter activities, such as selecting good meeting locations, effective program planning techniques, special resources (such as available from IEEE Headquarters, Region 4, Section Committees, other Professional Organizations in this area, etc).

Please be sure to make dinner reservations through our new IEEE Office when requested. Also tell us how we can improve the Section's services to you—our members—if this is appropriate and appears practical.

Joe Feitler

TOUR OF FERMI LAB Sponsored by Fox Valley Subsection

November 7th, 1987
9:00 AM

The tour will concentrate on Superconducting Supercolliders but will have other aspects as well.
Organized by Sam Kelly on 323-7826.

Details in November Scanfax.

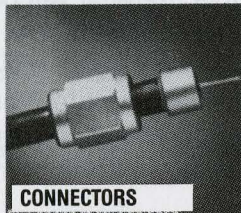
From Rebuilding Industrial America to Installing an LAN...



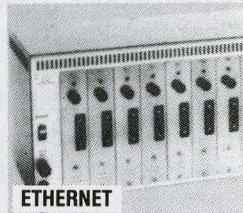
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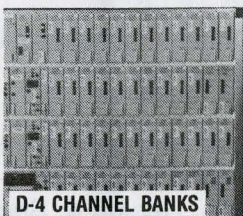
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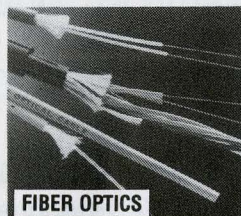
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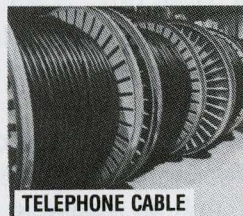
IBM CABLING SYSTEM



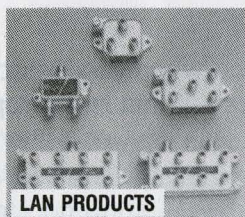
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FIBER OPTICS



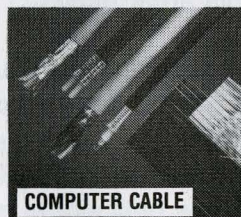
TELEPHONE CABLE



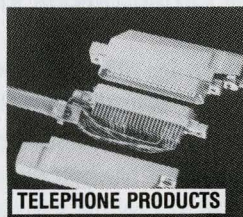
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