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TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

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

Copy Deadline for December Scanfax is October 31, 1988

NOV. 1	Bus Driver Effects on Transmission Line Emissions	EMC Society	AT&T - Bell Labs Naperville Road Naperville	Social: 7:15 PM Meeting: 7:30 PM
NOV. 5	Argonne Nat. Lab	Fox Valley Subsection	Argonne Nat Lab 9700 South Cass Ave. Argonne, IL	9:00 AM 12:00 AM
NOV. 8	Monthly Meeting All Welcome	IEEE Executive Committee	Contemporary Controls 2500 Wisconsin Downers Grove	Meeting: 7:15 PM
NOV. 10	New Light Amplifiers for Optical Communications	LEOS Society		Social: 5:15 PM Meeting: 6:00 PM Dinner: 7:15 PM
NOV. 16	High Frequency Resonant Converter	ED, IAS/JES, Northwest Subsection	Hackney's-on-the Lake, 1514 E. Lake Glenview	Social: 5:30 PM Dinner: 6:30 PM Meeting: 7:30 PM
NOV. 17	Chicago Area Weather Bureau	Computer Society	10600 W. Higgins Rd. Rosemont, IL	7:00 PM

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

Joint Meeting of the Electron Devices Society, The Northwest Subsection and

INDUSTRY APPLICATIONS SOCIETY/ INDUSTRIAL ELECTRONICS SOCIETY CHICAGO CHAPTER

November 16, 1988

ADVANCEMENTS IN POWER ELECTRONICS THE HIGH FREQUENCY RESONANT CONVERTER

Guest Speaker

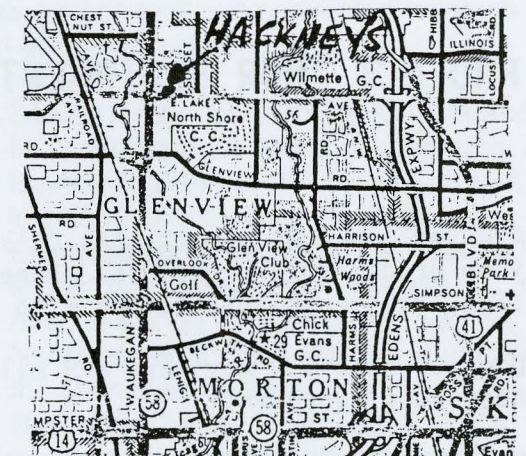
DR. C. Q. LEE

Associate Professor, Dept. of Electrical Engineer and
Computer Science, University of Illinois at Chicago.

Dr. Lee is director of the Power Electronics Research Laboratory at the University where he engages in the R & D of circuit components and circuit topologies for various power converter designs. He received his B.S., M.S., and Ph.D. Degrees from the Illinois Institute of Technology.

LOCATION: Hackney's on the Lake
1515 E. Lake
Glenview, IL

TIME: 5:30 Refreshments
6:30 Dinner
7:30 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 the IEEE office at 649-2800 by November 14th for reservations.

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ISSUE	COPY DUE	MAILED ON
Dec	Oct 31	Nov 15
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

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F. MARVASTI
ASSOCIATE PROFESSOR
ILLINOIS INSTITUTE OF
TECHNOLOGY
ISBN 0-9618167-0-8.

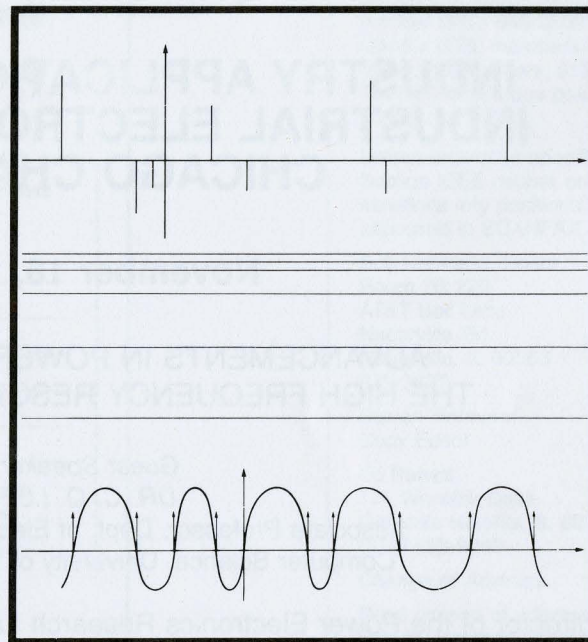
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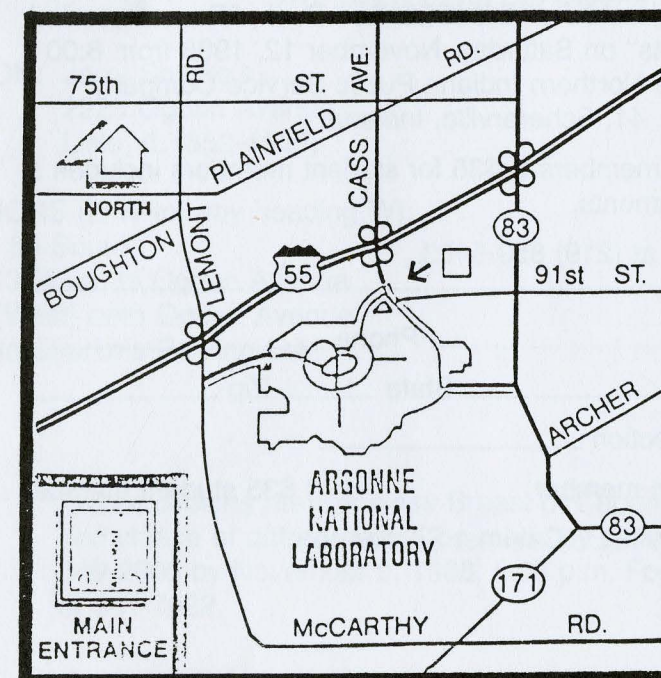


FOX VALLEY SUBSECTION November Tour

Topic: Tour of Argonne National Laboratory
Date: Saturday, November 5, 1988
Place: Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60439
Time: 9:00 am to about 12:30 pm
Reservations: Call (312) 649-2800 to make reservations.
Your name and country of citizenship are required.

ABSTRACT: This tour will be limited to 50 people. Argonne requires a final list of names several days in advance of our tour. If you are able to attend, please call early to reserve a spot. Equally important, please make every effort to attend once you have signed up to avoid embarrassing Fox Valley Subsection. Final details will be available in the November **SCANFAX** or at our October 16th Meeting at Wilton Manor.

Argonne National Laboratory was formed under the Atomic Energy Act of 1946 as a direct offshoot of the World War II Metallurgical Laboratory at the University of Chicago. Today, Argonne is a multi-purpose U.S. Department of Energy research laboratory with primary focuses on basic research in the physical, life, and environmental sciences, and on technology-directed research in fission, fossil and fusion energy, as well as conservation and renewable energy.



Served by 2 major airports (O'Hare and Midway), Argonne National Laboratory is located 25 miles southwest of Chicago, just south of Interstate 55 (Stevenson Expressway) at Cass Avenue. Visitors should take the southbound Cass Avenue exit off I-55, then turn right on Northgate Road. This will take them to the Main Gate and the Visitor's Reception Center. A gate pass, necessary for entrance to Argonne, will be issued from the Visitor's Reception Center.

Turn R at Outer Circle Dr. Proceed to Inner Circle Dr. then turn R, cross Meridian and meet at Bldg. 203, Physics and Environmental Research.

IEEE EMC SOCIETY NOVEMBER MEETING

Date: Tuesday, Nov. 1, 1988 **Time:** 7:15 Social 7:30 Talk
Subject: Bus Driver Effects on Transmission Line Emissions

Speaker: Tom Braxton - AT&T - Bell Labs
Place: AT&T - Bell Labs, Naperville Rd. at Warrenville Road, Naperville
Reservations: Please call 979-3627 before Oct. 31

Mr. Braxton is a member of Technical Staff at AT&T - Bell Labs in Naperville. He has EMC responsibility for the 5ESS™ switch. He has a BSEET from Purdue and a MSEE from IIT.

CALUMET SECTION SEMINAR ELECTRIC POWER DISTRIBUTION FOR INDUSTRIAL PLANTS SATURDAY, NOVEMBER 12, 1988

The IEEE Calumet Section will present a seminar based on the IEEE Red Book, "Recommended Practice for Power Distribution for Industrial Plants" on Saturday, November 12, 1988 from 8:00 A.M. to 4:30 P.M. The seminar will be held at the Northern Indiana Public Service Company offices at the southwest corner of U.S. 30 & U.S. 41, Schererville, Indiana.

The cost of \$50 for IEEE members, \$75 for non-members & \$35 for student members includes a copy of the Red Book, catered lunch and refreshments.

For additional information, call Mr. Jerry Wegner at (219) 853-5493.

Name _____ Company _____ Phone _____

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() \$50 IEEE member () \$75 non-member () \$35 student member

Mail this registration form and a check payable to IEEE Calumet Section to:

Professor Edgar Leucke
138A Gellersen Center
Valparaiso University
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IEEE Lasers and Electro-Optics Society CHICAGO CHAPTER

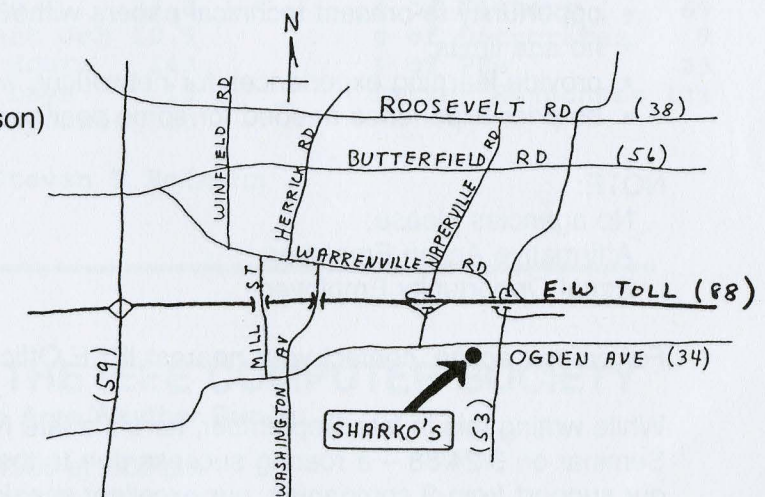
Date: Thursday, November 10, 1988
Topic: New Types of Light Amplifiers for Optical Communication Systems
Speaker: Dr. N.A. Olsson, AT&T Bell Laboratories
1988-89 LEOS Traveling Lecturer

Abstract: The traditional way of compensating for attenuation of light in optical communication systems has been the rather cumbersome procedure of photon-electron conversion, electrical amplification, and finally electron-photon conversion. In many applications, direct optical amplification of the light signal would be advantageous. In this talk, we describe two types of optical amplifiers; semiconductor laser pumped fiber Brillouin amplifiers, and amplifiers based on semiconductor laser chips. Operational principles and device characteristics such as gain, noise, and bandwidth will be discussed. Recent record breaking system experiments, including transmission over 372 km of fiber with multiple in-line amplifiers and a 4 Gbit/s receiver with an optical pre-amplifier will be described, as well as remaining technical challenges and problems.

Social/Business Meeting: 5:15 PM (Cash Bar)
Technical Presentation: 6:00 PM (No Charge)
Dinner: * 7:15 PM (\$13.00 Per Person)

LOCATION: Jerry Sharko's
2225 Ogden Avenue
Lisle, IL (852-4500)

DIRECTIONS (E-W tollway heading W):
Exit at 53 South
Take 53 South to Ogden Avenue
Right (West) onto Ogden Avenue
Left into Sharko's Parking Lot



* Entree choices are Boneless Breast of Capon or Vegetarian Lasagna. Dinner reservations and choice of entree should be made by calling the IEEE Chicago Message Center at 649-2800 by November 9, 1988, 5:00 p.m. For additional information, contact Tom Windhorn at 961-7922.

REPORT FROM YOUR SECTION CHAIRMAN

By now (Nov. 1) you should have mailed your completed ballot for IEEE's top elected officials. Or did you find yourself at a loss again for whom to vote? Or how to make your choice properly according to the new counting rules? Or did your frustration keep you from voting entirely?

On a much more positive note – we really need more members to serve as Section, Subsection, and Chapter officers and committee people:

***** WANTED *****

Several self-starters ("eager beavers") to train themselves for responsible IEEE jobs within the Chicago Section!

Requisite skills:

- "Common Sense";
- perhaps some computer literacy;
- a little bit of spare time to complement your professional and personal lives.

Remuneration:

- Personal satisfaction;
- acquiring new friends and interests in the profession;
- improving your personal professional, leadership, and communications skills;
- enabling your Section, Subsection, and/or Chapter to serve you better;
- some excellent professional experience to make you more promotable;
- employer-provided OJT (on-the-job) training.

Other Considerations:

- opportunity to present technical papers without formal review procedures;
- no age limits;
- provide learning experiences for networking with Regional and National committees;
- no prior experience needed for some positions; but prior experience will not keep you out.

NOTE:

No agencies please;
Affirmative Action Employer;
Equal Opportunity Employer.

For prompt action, contact your nearest IEEE Officer or Committee member.

While writing this in late September, here's a late News Flash: we just completed our "e-mail" Seminar on 9/24/88 – a roaring success due to the synergy created by the sponsoring entities, our support from 3 companies, our excellent speakers, and our appreciative attendees. Our sincere thanks to all of you who contributed to this "first", our Section's first professional seminar. A Report and some photos will follow soon.

By the way, you will notice our ongoing efforts to conserve the Section's strained financial resources by lowering the SCANFAX page count without harming its mission to communicate effectively with our members.

Please continue to participate and lead!

Joe Feitler

RESULTS OF THE 1988 IEEE SALARY SURVEY

Age Range	20-24
1988 Salary	32025
1987 Salary	29950
1986 Salary	28333
Experience	1.7
Yrs Present Job	1.5
Overtime Hours	252
Vacation Days	11
Survey Responses	6

Age Range	25-29
1988 Salary	35859
1987 Salary	35664
1986 Salary	29262
Experience	3.9
Yrs Present Job	3.2
Overtime Hours	112
Vacation Days	11
Survey Responses	26

Age Range	30-34
1988 Salary	48410
1987 Salary	43336
1986 Salary	38583
Experience	9.0
Yrs Present Job	8.0
Overtime Hours	197
Vacation Days	16
Survey Responses	26

Age Range	35-39
1988 Salary	50935
1987 Salary	46971
1986 Salary	41275
Experience	13.1
Yrs Present Job	6.6
Overtime Hours	337
Vacation Days	15
Survey Responses	23

Age Range	40-44
1988 Salary	53936
1987 Salary	48259
1986 Salary	44959
Experience	17.9
Yrs Present Job	14.8
Overtime Hours	133
Vacation Days	17
Survey Responses	13

Age Range	45-59
1988 Salary	61420
1987 Salary	58810
1986 Salary	58080
Experience	21.4
Yrs Present Job	10.3
Overtime Hours	217
Vacation Days	17
Survey Responses	10

Age Range	50-54
1988 Salary	62485
1987 Salary	60654
1986 Salary	59062
Experience	29.7
Yrs Present Job	21.9
Overtime Hours	205
Vacation Days	22
Survey Responses	10

Age Range	55-59
1988 Salary	53488
1987 Salary	49098
1986 Salary	44862
Experience	27.8
Yrs Present Job	10.9
Overtime Hours	143
Vacation Days	15
Survey Responses	10

Prepared By Steven R Hofmann

Age Range	60-64
1988 Salary	61951
1987 Salary	56116
1986 Salary	65599
Experience	38.0
Yrs Present Job	19.0
Overtime Hours	124
Vacation Days	20
Survey Responses	5

Age Range	65-69
1988 Salary	59000
1987 Salary	56500
1986 Salary	55500
Experience	38.5
Yrs Present Job	33.5
Overtime Hours	250
Vacation Days	27
Survey Responses	2

OVERALL AVERAGES	
Average Age	38.0
1988 Salary	48803
1987 Salary	44799
1986 Salary	41005
Yrs Present Job	9.7
Experience	15.0
Overtime Hours	193
Holidays	11
Vacation Days	15
Sz of Facility	1901
# of Scientists	973
# of US Empls	48912
# of Bachelors	112
# of Masters	69
# of Doctorates	7
# of PEs	25
Survey Responses	133

THE CHICAGO CHAPTER OF THE IEEE COMPUTER SOCIETY
Visit to the Chicago Area Weather Bureau

Date: Thursday, November 17, 1988 at 7:00 pm
Place: 10600 W. Higgins Road, Room 1040, Rosemont, IL

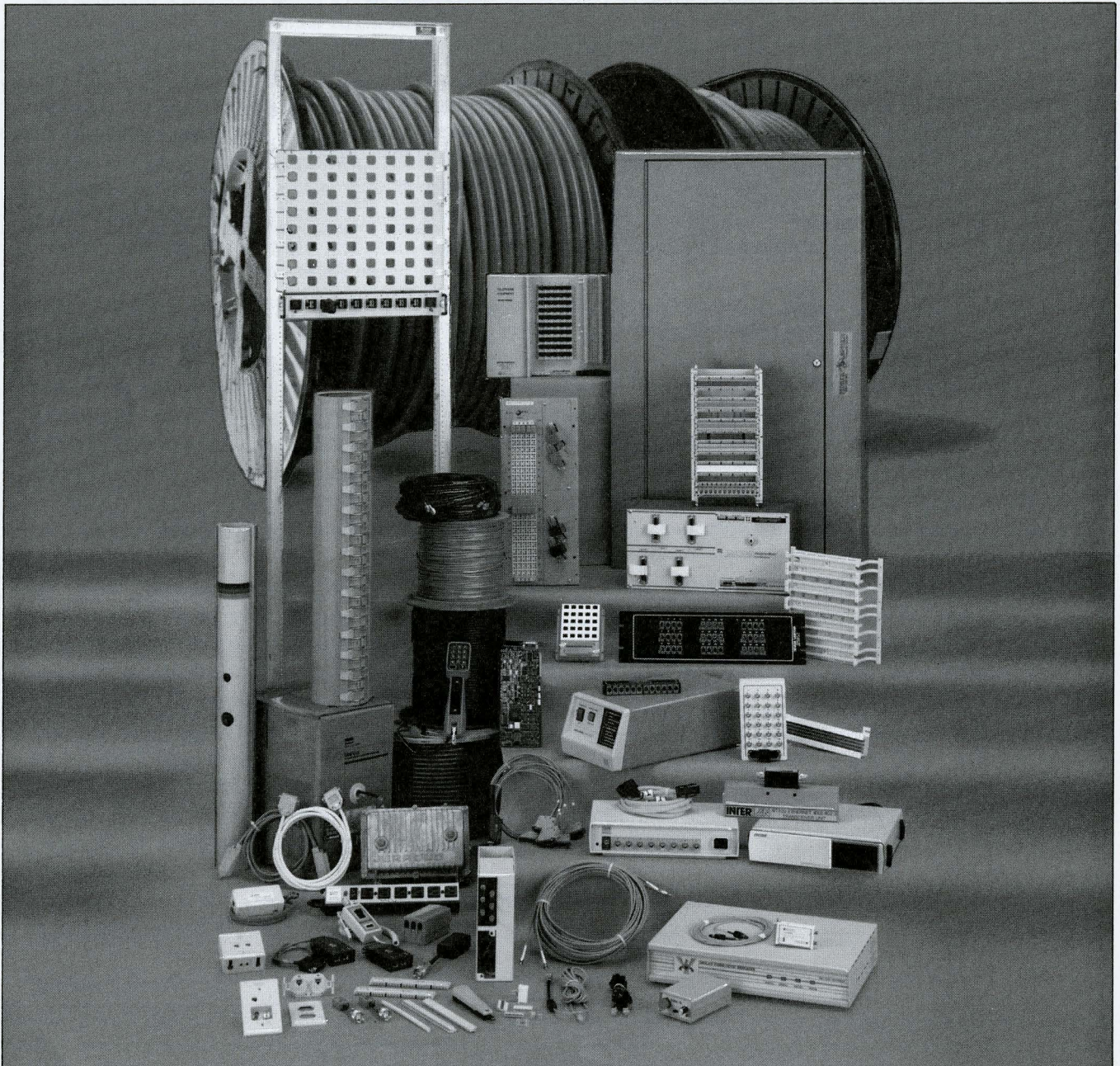
Location is west of Mannheim Road, just off airport site, in an office building on the north side of street which is just east of a fenced-in strip of grass with a string of landing lights.

Please call our IEEE Message Center (649-2800) for reservations before 11/10/88 so we can ask for enough guides; please bring no children due to the nature of this site.

NOTE: Please call 649-2800 for a last-minute check during the afternoon of this visit since they cannot allow us access if there is any storm in their area.

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