



IEEE

# Scanfax

NOVEMBER 1996

*Institute of Electrical and Electronics Engineers*

## NEWSLETTER OF THE IEEE CHICAGO SECTION

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Chicago Section Business Meeting- All welcome

Tuesday November 12, 1996 • 7:15 PMDeVry DuPage Campus • 1221 N.  
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**JOINT  
CHAPTER  
NUCLEAR &  
PLASMA  
SCIENCES  
AND  
MAGNETICS  
SOCIETIES**

**TOPIC: EXPERIMENTAL STUDIES OF  
Possible Hazards of Power Frequency  
Magnetic Fields**

**SPEAKER: DR DAVID MCCORMICK**  
 HEAD, TOXICOLOGY AND CARCINOGENICS DIVISION,  
 IITRI

**DATE: MONDAY NOVEMBER 4, 1996**

**DINNER: 6:30 PM ..Cost: \$12.00**

**TALK: 7:30 PM**

**LOCATION: IIT Rice Campus. 201 East Loop Road  
Wheaton, IL 60187**

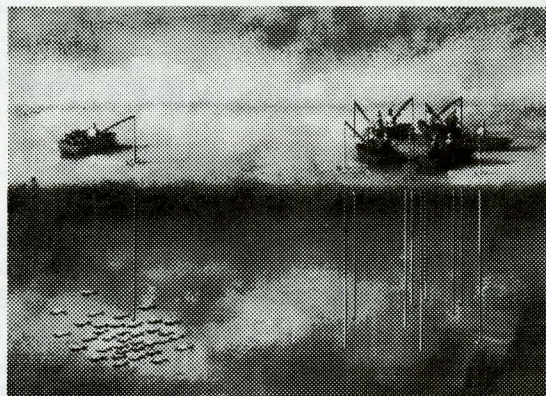
**RESERVATIONS: IEEE Business Office 800 898 4333; 630 964 4333  
FURTHER INFORMATION**

**Francois Ostiguy (ostiguy@fnal.gov)....630 840 2231  
...or see the IEEE Chicago Section Web Page <http://ieee.fnal.gov>**

**Abstract**

Dr. McCormick will present and discuss the results of one of the most exhaustive scientific studies ever published on health hazards associated with power frequency magnetic fields.

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## IEEE Computer Society

TOPIC: Advanced Wide Area  
Collaborative Computing Environments

SPEAKER: Rick Stevens  
Director, Math & Computer Science  
Argonne National Laboratory

DATE: Thursday November 14 7:30 p.m.

LOCATION: Lucent Technologies  
2000 N. Naperville Rd Naperville IL 60566

### ABOUT THE TOPIC AND THE SPEAKER:

Rick will describe a wide-area collaborative computing environment that is under development at Argonne Labs in collaboration with other D o D laboratories and the N S F Supercomputer centers. Elements of this environment have been demonstrated (I-WAY and VROOM) at Supercomputing 1995 and SIGGRAPH 1994 conferences.

The discussion will include virtual reality interfaces, scalable collaborative tools that support the concept of shared virtual space and the integration of these concepts into the traditional remote supercomputing paradigm.

Rick Stevens is the Director of the Mathematics and Computer Science Division and Director of the High Performance Computing and Communications Program at ANL. He is also the leader of the Argonne Computing and Communications Infrastructures Futures Laboratory - an effort to develop multimedia collaborative environments, virtual reality, and advanced networking. Stevens is also a principal investigator in three Grand Challenge Projects - computational chemistry, computational biophysics, and astrophysics.

Professional activities include Scalable i/o Initiative, Advisory Board for IBM's Highly Parallel Supercomputing Lab, and the Energy Sciences Networking Steering Committee

**DIRECTIONS:** Lucent Technologies is located at the northwest corner at the intersection of Warrenville Road and Naperville Road. From Rte 88, take Naperville Rd. exit, turn north on Naperville Rd., left on Warrenville Rd., and enter the campus at the first right turn from Warrenville Rd. The first right turn from the drive will lead you to the front of the building.

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**FOR ADDITIONAL DETAILS:** Adrienne Novick 630 252 6630

**ELECTRON DEVICES SOCIETY  
WITH  
FOX VALLEY SUBSECTION  
AND  
ENGR. MANAGEMENT & PROF. COMM. SOCIETY**

**COMPETITION AND THE COPY CATS  
Survival Tactics of the Electronic Industry**

Presented by  
Pierre Dumay  
WESTELL

**Wednesday, November 6, 1996**

**ABOUT OUR TOPIC**

As the pace of progress in the Electronics/Computer industry continues to accelerate, the ability to react to technological changes becomes more important. In this presentation, Mr. Dumay will analyze the history and outcome of several complex, high risk projects, some of them quite amusing, to identify the key factors which have distinguished the winners from the losers. From the creation of new markets to the forced transfers of technology of the cold war, the ability to acquire new technology has defined which companies have dominated high-technology markets, and for how long. The case histories presented will be compared and used to draw conclusions which will help current developers and technocrats.

**ABOUT OUR SPEAKER**

Mr. Dumay is the current chairman of the Fox Valley Subsection of the IEEE. He holds a BSEE and an MS and has several years of experience in the electronic industry. He comes from a varied background which includes audio, automotive and industrial controls. For the last 7 years, Mr. Dumay has worked in the telecommunication industry and is currently with WESTELL of Oswego, IL.

**PLACE**

Jerry Sharko's  
2225 Ogden Ave.  
Lisle, IL

**TIME**

Social..... 6:00 PM  
Dinner..... 7:00 PM  
Presentation..... 8:00 PM

**NOTES**

Optional dinner costs \$15.00. Meal includes chicken, pasta, and vegetable served family style. Vegetarian platter can be requested when making reservations.

**FOR RESERVATIONS**

Please call the IEEE Business Office at (800)898-IEEE by Monday, November 4th.

**FOR FURTHER INFORMATION**

Contact Mike Banak at (630)898-2800 x436

**ENGINEERING  
IN  
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**NEURAL PROSTHESIS  
RESTORING MOTOR FUNCTION  
AFTER SPINAL CORD INJURY  
Presented by: Robert J. Jaeger, Ph.D.  
Illinois Institute of Technology  
Tuesday, November 19, 1996**

**ABOUT THE TOPIC**

In the United States, about 10,000 individuals each year sustain a Spinal Cord Injury. In most of these cases, individuals lose some degree of function of their legs, and in some cases, arms.

Typically, these individuals must rely on wheelchairs for mobility, because of inability to use the leg muscles. There are other motor functions, such as breathing and bladder function, that can also be impaired by spinal injury. This talk will focus on the area of Neural Prostheses, devices designed to partially restore some of the motor function in individuals with SCI, by electrically stimulating the innervation of the paralysed muscles. Both technological aspects and clinical aspects of this interesting biomedical engineering problem will be discussed.

**ABOUT THE SPEAKER**

Robert J. Jaeger, Ph.D has been a professor at the Pritzker Institute of Medical Engineering at Illinois Institute of Technology since 1981, where he also teaches in the Electrical and Computer Engineering Department. He has an adjunct faculty appointment in the Department of Physical Medicine and Rehabilitation at Northwestern University Medical School. He has published over 20 full length articles on Functional Electrical Stimulation. He serves on the Board of Directors of the Society of Functional Stimulation. His research has been supported by the National Institutes of Health, the National Science Foundation, the National Institute of Disability and Rehabilitation Research, the Veterans Administration, and the Paralyzed Veterans of American/Spinal Cord Research Foundation. In 1996 he was elected a Fellow of the American Institute of Medical and Biological Engineering.

**PLACE**

Motorola Schaumburg Campus  
LMPS Sector Building, Door 13

**TIME**

Presentation ..... 7:30 PM  
Cafeteria escort available at 6p.m.

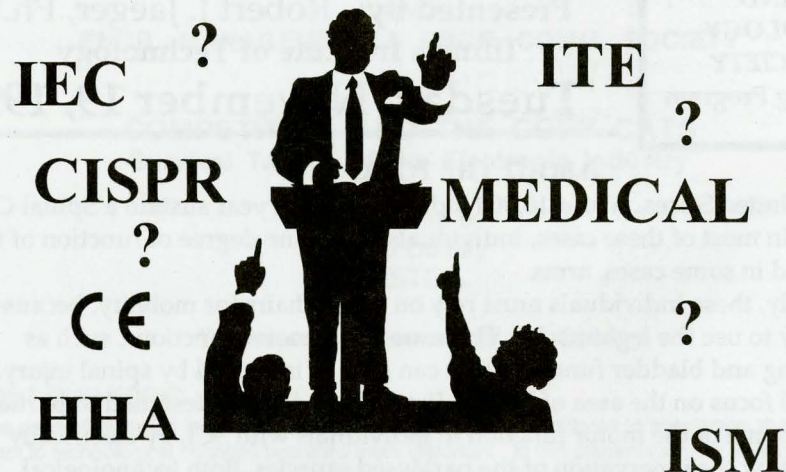
Enter campus using Gate A, westmost gate off Algonquin Road, west of Meacham Door 13 is directly under the Motorola sign on the west face of the 6 story building as you leave the gate. Park anywhere except Handicapped unless you have Handicap credentials. If questioned by campus Security, you are attending an IEEE meeting.

Preregistration is required. Refreshments and beverages will be provided.

**FOR RESERVATIONS**

Please call the IEEE Business Office at (800) 898-IEEE 630 964 4333 no later than 1 PM, Monday November 18.

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## RADIATED IMMUNITY ISSUES

Presented by  
Pat Malloy, Amplifier Research  
**Wednesday, November 20**

### ABOUT OUR TOPIC

Pat will be speaking on technologies for testing, including radiated immunity testing using anechoic and microanechoic chambers

### ABOUT OUR SPEAKER

Pat Malloy has been a Sales Application Engineer at Amplifier Research since 1989. Previous work experience includes 4 years with the U.S. Navy as a Guided Missile Electronic Technician followed by 7 years in an engineering group at AT&T Bell Labs, and 16 years as a Senior Sales Engineer at Tektronix. Mr. Malloy graduated from Lafayette College in 1972 with a BSEE

### PLACE

Lucent Technologies, Bell Labs  
2000 N. Naperville Rd.  
Naperville, IL  
(630) 979-2000

### TIME

Social ..... 7:15 PM  
Presentation ..... 7:30 PM

Refreshments will be served at 7:15 PM.

### DIRECTIONS

Lucent Technologies is located at the northwest corner of Warrenville Rd. and Naperville Rd. To enter, go west on Warrenville Rd. to the first turn on the right. Enter the drive and again take the first right into the parking lot. To enter the building, go to the center of the southeast side near the flag poles.

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# IPP'S UTILITY INTERCONNECTION

## Process and Requirements

Presenter: Jason Yousif,  
Indeck Energy Services

**Wednesday, November 13, 1996**

### ABOUT OUR SPEAKER

Jason Yousif is Manager of Electrical Engineering for Indeck Energy Services - 'cogeneration developer' and 'independent power producer' company

Mr. Yousif is responsible for electrical design specification for cogeneration plant electrical systems. He has over 12 years of experience in utility planning, system operation, and plant electrical construction and installation. Jason holds an MSEE and a diploma in Power System Engineering.

### PLACE

Chicago Bar Association  
321 S. Plymouth Court  
Chicago, IL  
(Near Jackson and Dearborn)

### TIME

Social ..... 11:30 AM  
Lunch..... 12:00 PM  
Presentation ..... 12:30 PM

### NOTES

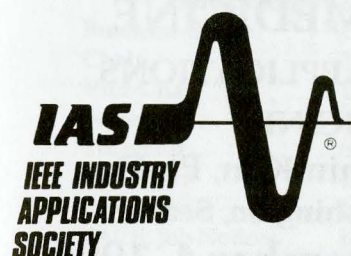
Lunch tickets can be purchased in the Chicago Bar Association Shop on the first floor for \$8.50.

### FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE to make your reservation no later than noon, Monday, February 12th.

### FOR FURTHER INFORMATION

Contact Sam Peach at (815) 942-2920 x3866.



# METERING REQUIREMENTS

Presenter: Rich Kraus  
Superintendent of Metering  
Commonwealth Edison

**Wednesday, November 20, 1996**

### ABOUT OUR TOPIC

Please join us for a presentation on Commonwealth Edison metering requirements and practices. Our presenter is Rich Kraus. Rich is the Superintendent of Metering for Commonwealth Edison based in Oakbrook and is responsible for switchboard metering compartment design approval and installation practices for all revenue metering.

### PLACE

Como Inn  
546 N. Milwaukee Ave.  
Chicago, IL

### TIME

Social ..... 5:30 PM  
Dinner ..... 6:00 PM  
Presentation ..... 7:00 PM

### DIRECTIONS

*From the North:* Take 90/94 to Ogden Avenue exit. Turn left onto Ogden to Milwaukee Avenue. Turn right on Milwaukee and proceed south. The Como Inn is located just over the expressway.

*From the South:* Take 90/94 to Lake Street exit. Turn left on Lake to Halsted Street. Turn right on Halsted to Milwaukee Avenue. Turn left on Milwaukee to the Como Inn.

*Parking:* Two large free self park lots are available or valet service at the Como Inn entrance on Ohio Street.

### NOTES

Dinner cost \$20. Menu choice Chicken or Pasta entree.

### FOR RESERVATIONS

To make your reservation, call the IEEE Business Office at (800) 898-IEEE.

### FOR FURTHER INFORMATION

Contact our Program Chair - Pat Hennelly at (847) 398-4510.

For chapter involvement opportunities, please contact the Chapter Chair Geraldine Ryan, CTE Engineers 312 938 0300 Fax 312 938 1109

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# PACS, TELEMEDICINE MULTI-MEDIA APPLICATIONS IN MEDICINE

**Speaker: Youngmin Kim, Ph.D.**  
IEEE Fellow, Univ of Washington, Seattle  
**Wednesday December 4, 1996**

## ABOUT THE TOPIC

The volume of medical images generated clinically has been growing rapidly due to an increase in both the number of examinations performed and in the range and cleverness of the imaging modalities being used. As a result, the distribution and storage of patient image data and its associated reports have become major issues. Picture Archiving and Communication System (PACS) represents an alternative to film and paper in image interpretation, distribution, management, and archiving. Based on digital computer and other associated technologies, PACS handles images in electronic form, replacing hard copy formats.

## ABOUT THE SPEAKER

Youngmin Kim received the BSEE degree from Seoul National University in 1975, and the MS and Ph.D degrees in electrical and computer engineering from the University of Wisconsin in 1979 and 1982, respectively.

Dr. Kim has been on the faculty of the University of Washington since 1982. Currently he is professor of Electrical Engineering and Adjunct Professor of BioEngineering, Radiology, and Computer Science and Engineering. He has taught courses and given seminars on computer system design, image processing, and multimedia algorithms and systems. He offers continuing education courses on image computing and multimedia and advanced digital systems to engineers around the world. He is the director of both the Image Computing Systems Laboratory at UW, and the UW Image Computing Library Consortium. He has participated heavily in the TI TMS320C80 Multimedia Video Processor architecture definition and optimization. He is a Fellow of the IEEE and of the the American Institute for Biomedical Engineering.

|                       |                            |
|-----------------------|----------------------------|
| <b>PLACE</b>          | <b>TIME</b>                |
| Como Inn              | Social ..... 6:00 PM       |
| 546 N. Milwaukee Ave. | Dinner ..... 6:30 PM       |
| Chicago, IL           | Presentation ..... 7:30 PM |

Cost: \$20 per person for Dinner. There is no charge for the presentation, but preregistration is required. Seating may be tight.

For directions, please see the IAS announcement in this issue.

## FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE 630 964 4333 no later than 1 PM, Monday December 2nd...

The EMBS Chair is Judy Gemperline 847 459 9265 - j.gemperline@ieee.org

Updated from October Scanfax

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