



IEEE

Scanfax

SEPTEMBER 1996

NEWSLETTER OF THE CHICAGO SECTION

Institute of Electrical and Electronics Engineers

Technical Programs

- *IEEE Industry Applications/Industrial Electronics Society*
Wednesday, September 11, 1996
Battery Room Design Requirements.....Page 3
- *IEEE Chicago Section - Computer Society Chapter Joint Fall Kickoff*
Tuesday September 24
JAVA - The Programming Language.....Page 5
- *Engineering in Medicine and Biology Society*
Tuesday September 17, 1996
Cardiac Electrical Imaging.....Page 7
- *IEEE Fox Valley PRO-COM Conference*
Announcement.....Page 8, 9
- *IEEE Electromagnetic Compatibility Society*
Wednesday, September 18, 1996
IEC, EU Electromagnetic Immunity Standards.....Page 11

Technology and Administrative Notes

- *Welcome New Members.....Page 2*
- *IEEE Technical Societies and Professional Activities, Briefs.....Page 6*
- *Chapter Coming Events.....Page 13*
- *Section and Chapter Officer Contacts.....Page 14*

Visit the IEEE Chicago Section Home Page at <http://ieee.fnal.gov>

Chicago Section Executive Committee Meeting

Tuesday September 10 1996 • 7:15 PM

DeVry DuPage Campus • 1221 N. Swift Road • Addison, IL

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 Scanfax address change - notify Editor

MEETING NOTICE AND ARTICLE SUBMITTAL DEADLINES

Articles for Oct '96 Scanfax, Aug 23; Nov, Sep 23; Dec, Nov 23
 Submit articles to Jack Sherman via email or Fax or US Mail

ADVERTISEMENTS - Close 20th 2 months preceeding publication

Call Chicago Section Business Office
 800 898 4333 (630 964 4333).

Welcome to 350 members who have joined us this year.

IEEE Chicago

The IEEE Chicago Section celebrated its Centennial in 1993 with a gala black-tie program at the Chicago Museum of Science and Industry. It was honored earlier by presentations by Institute President Martha Sloan, and a large gathering of IEEE Headquarters, Regional and Technical Staff, as well as the members and officers of the surrounding Sections of Region 4.

We are approximately 7000 members, including 500 to 700 student members (depending on the time of year, with 22 Chapters of the 37 IEEE Technical Societies.

The society chapters organize technical meetings to promote the technical currency of their members, structured to follow the programs of the parent society. Several of our members are Executive Committee members of Technical Societies.

Among Operating Committees, the Professional Activities Committee concerns itself with aspects of career management, such as job fairs, the State Government Activities Committee advises us of legislative initiatives, our Awards committee suggests members to be recognized, and our Student Activities committee arranges programs to involve student members, creating paths for mentoring and similar associations with the working members. Programs are under consideration to encourage our younger members to establish contact with the technical resource pool of knowledge of our Life Members. Joint participation in these activities will benefit both novice and established technicals.

A complete population compilation of the Technical entities will be in the October Scanfax.

A contact with our Section Chair will help you decide ways to become involved with our activities, a call to a chapter officer or chapter program chair will get you technical information, and a Technical Abstract or Letter sent to our Scanfax Editor will bring your ideas into contact with our members.

The contact data are elsewhere in this newsletter. General information is available at our Business office.

The Executive Committee and the Chapter Chairs welcome you to our administrative and technical meetings. There is never a charge or a membership requirement to attend a chapter, subsection or administrative meeting. Costs for food and conferences and workshops are stated in the announcements.



BATTERY ROOM: DESIGN REQUIREMENTS

Presenter:

Ron Robbins, Jr

ACRAN, Inc. Austin TX.

Wednesday, September 11, 1996

ABOUT OUR TOPIC

Please join us for a presentation on Battery Room Requirements. Subjects which will be discussed include design requirements of the National Electric Code (NEC), Uniform Building Code (UBC), Uniform Fire Code (UFC, and Building Officials and Code Administrators (BOCA)

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.

WELCOME OUR NEW CHAIR

Geraldine Ryan, CTE Engineers 312 938 0300 Fax 312 938 1109

TECHNICAL CAREER FAIR

Monday & Tuesday
September 9 & 10 • 3pm - 7pm
Embassy Suites Hotel
707 E. Butterfield Rd. • Lombard, IL

Talk to hiring managers from some of the Chicago area's top companies. On-the-spot interviews for a variety of Engineering and Information Systems positions.

See our ad in the *Chicago Tribune* Help Wanted section on Sunday, September 8 for a list of participating companies or visit our Career Site at <http://www.lendman.com>

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Joint Meeting
IEEE Chicago Section
All Chapters and Committees
SPONSOR IEEE Chicago Chapter,
IEEE Computer Society

FEATURING

Rich Miller and Joe Godsil
Sun Microsystems

TOPIC: Have You Had Your JAVA Today?

DATE: Tuesday September 24 7:15 p.m.

LOCATION: Lucent Technologies
2000 Naperville Rd Naperville IL 60566

ABOUT THE TOPIC AND THE SPEAKERS:

JAVA is a very powerful programming language which was developed at Sun Microsystems. JAVA programming language has fueled the growth of activities in the Internet and the Web. You may have already downloaded some 'cool applets' (Java programs transported over the network) and displayed the results on a Java enabled 'hot browser'.

Rich is the recognized 'Ambassador' for Operating Systems issues for Sun Microsystems Itasca Office, and has extensive experience and interest in Java programming.

We invite you to come and enjoy a meeting with Rich and Joe and continue the Java adventure. In case you have not started, this is a great opportunity to start the addiction.

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. Ample parking space is available in the parking lot in front of the building.

RESERVATIONS: IEEE Business Office - 800 898 4333 (630 964 4333)

ADDITIONAL DETAILS: Norma Macay 630 979 1010

COMING EVENTS

Many of our chapters and subsections have planned their calendar of events for several months in advance. Some of the locations, times, and presenters may change. Consult our Web Page and current Scanfax. Our Web Home Page <http://ieeefinal.gov> is about as up-to-date as we can get. Material submitted to Scanfax is rapidly copied to that resource.

There is always an opportunity for material you wish to present, occasionally even on short notice. IEEE Technical Society designated Distinguished Lecturers and Chicago Section designated speakers may become available on short notice. We encourage our members to make their interests and electronic mail addresses known to us to assure members will have opportunities otherwise unavailable.

Industrial Applications/Industrial Electronics Societies Joint Chapter IAS/IES

- Oct 16 96 NEMA and IEC Motor Control Standards and Applications
- Nov 20 96 Commonwealth Edison Metering Practices
- Jan 29 97 Low Voltage Switchgear
- Mar 26 97 Medium Voltage Switchgear
- May 14 97 City of Chicago Plan Approval Process

Engineering in Medicine and Biology Society EMB

- Nov 19 96 Neural Prostheses: Restoring Motor Function After Spinal Cord Injury
Dr. Robert Jaeger, IIT
- Dec 4 96 PACS, Telemedicine, and Multimedia Applications in Medicine
Dr. Youngmin Kim Univ of Washington

Industry Mentors:

DeVry DuPage plans to offer seniors the opportunity to participate with Industrial mentors. Senior Projects will allow these students to do engineering design and test work in conjunction with engineers in industry. For details, please contact Dean Gene Chodash at 708 953 1300 ext 1304.

Conference Proceedings available (Contact Jack Sherman 847 576 8222)

A small number of conference proceedings have been made available for our members. They have been donated or have been returned for incorrect mailing, and are available for the cost of handling, \$12.00. Photocopy of the TOC, \$2.75.

* EMC Atlanta 1995; CPMT 1992; VTS Chicago 1995.

ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY Evening Program

CARDIAC ELECTRICAL IMAGING

Presented by: Bin He, Ph.D.
University of Illinois at Chicago Circle
Tuesday, September 17, 1996

ABOUT THE TOPIC

Imaging of cardiac electrical activity is important for a better understanding of cardiac electrophysiology and for promoting clinical diagnosis of cardiac disease

We have developed an innovative technique to non-invasively image spatially distributed cardiac electrical activity. Theoretical investigation shows the body surface distribution of the surface Laplacian of the potential provides enhanced capability for resolving cardiac electrical sources. Experimental exploration has been made to demonstrate the feasibility of this new technique in imaging the cardiac activation process in healthy human subjects.

ABOUT THE SPEAKER

After receiving his Ph.D. in Electrical Engineering with biomedical specialization from the Tokyo Institute of Technology in 1988 with the highest honor, Dr. Bin He completed postdoctoral fellowships in Biomedical Engineering at the Tokyo Institute of Technology and at the Massachusetts Institute of Technology. Before joining the UIC faculty in 1994, Dr. He was a Research Staff Member at MIT.

Dr. He is currently an Assistant Professor of Electrical Engineering and Computer Science, and of Bioengineering, and is Director of the Biomedical Functional Imaging and Computation Laboratory at UIC. His major research interests include bioelectric phenomena, functional imaging, computational biomedicine, and bioinstrumentation.

PLACE

Northwestern University
Technological Institute
2145 Sheridan Road
Evanston, IL

TIME

Presentation 7:30 PM
ROOM:
Electrical and Computer Engineering
Conference Room L324

The Technological Institute is on the east side of Sheridan Road at Noyes. Free parking is available in the NU lot on the southwest corner at Sheridan and Noyes, directly across the street from the Tech Institute.

FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE to make your reservation no later than 1 PM, Monday September 16.

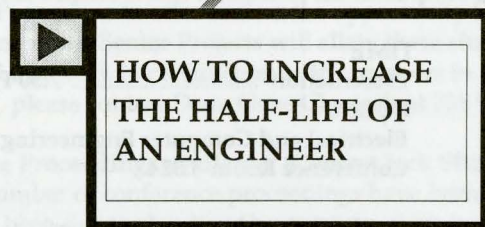
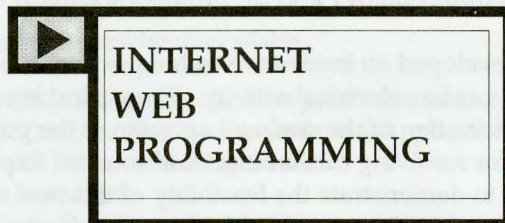
The EMBS Chair is Judy Gemperline 847 459 9265 - j.gemperline@ieee.org

PROCON '96

Professional and Personal Growth Conference

Theme: Continue Your Growth to Thrive in Today's
Competitive and Ever Changing Technological World

Thursday, October 24, 1996



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Chicago Section



Procon'96 Program Schedule:

7:30 - 8:15 AM	Registration and Refreshments
8:15 - 8:45 AM	Welcome Address
9:00 - 11:45 AM	Three Concurrent Seminars Seminar A - Internet Web Programming Seminar B - Marketing and Management For Engineers Seminar C - How to Increase the Half-Life of an Engineer
12:00 - 1:00 PM	Lunch
12:45 - 1:30 PM	Personal Development/Motivational Talk
1:45 - 4:30 PM	Rerun of Seminars A, B, and C
4:30 - 5:00 PM	Refreshments/Raffle/Door Prizes
5:00 - 6:00 PM	Networking Social/Cash Bar

Location: Lisle Radisson Hotel

Information: Arup Bhuyan, (630) 713-7759, bhuyan@lucent.com
Norma Mackay, (630) 979-1010, norma@lucent.com

Registration Fee: Early Registration Registration after Oct. 17

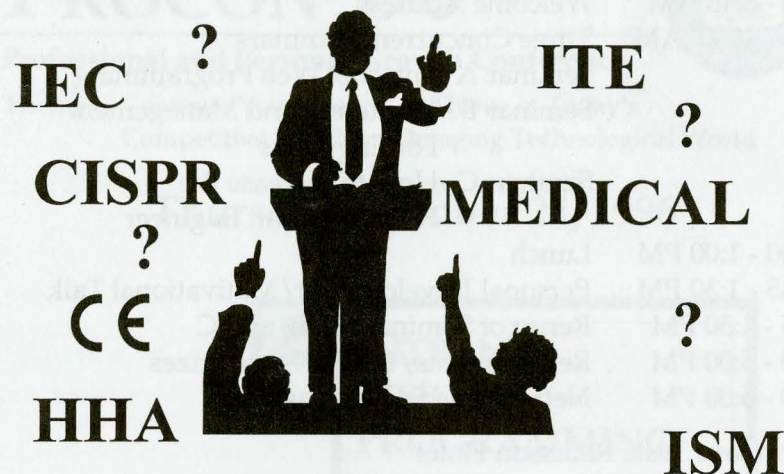
IEEE Members	\$55	\$75
Student Members	\$25	\$35
Non-IEEE Members	\$85	\$115
Non-IEEE Students	\$40	\$55

Procon'96 Registration Form

Name _____
Company _____
Title _____
Address _____
City/State/Zip _____
Daytime Phone () _____
I am making reservations for _____ people.
I have enclosed a check for \$ _____ made out to IEEE Procon.

Please mail Registration Form and Payment to:
Norma MacKay, Lucent Technologies, Room 6D-310
2000 N. Naperville Road, Naperville, IL 60566-7033

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SEMINAR TOPICS

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EU BASIC IMMUNITY REQUIREMENTS, PRESENT AND FUTURE

Presented by
Leo Makowski, Haefely Trench, Inc.

Wednesday, September 18, 1996

ABOUT OUR TOPIC

This presentation will provide the latest status of the IEC Immunity Standards being used (or proposed) for compliance to the EMC Directive as "EURONORMS". Many of these standards are mandatory test requirements for manufacturers of various types of electrical and electronic equipment who wish to sell their products to the European Union (EU).

The presentation will include a look at the basic, generic, and some product standards and that changes may affect them. Activities regarding IEC TC65, 77 and CENELEC TC210 (TC110) will also be discussed.

ABOUT OUR SPEAKER

Leo makowski is Vice President and General manager of Haefely Trench, Inc. In this position he is responsible for marketing and sales of EMC products and the administration of all HV Test Equipment sales for the Americas. He is also chairman of the IEEE EMC Society's Representative Advisory Committee (RAC). This committee provides a technical liaison between the EMC Society and various other IEEE and non-IEEE committees with regard to EMC standards activities.

PLACE

Lucent Technologies, Bell Labs
2000 N. Naperville Rd.
Naperville, IL
(708) 979-2000

TIME

Social 7:15 PM
Presentation 7:30 PM

NOTES

Refreshments will be served at 7:15 PM.

DIRECTIONS

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Vehicular Technology	TBA		

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UIC.....	Sharad Laxpati.....		312 996 3453

SPECIAL INTEREST GROUPS

Women in Engineering	TBA	women.chicago@ieeee.org
Consultants Network (AICN)	TBA	consultants.chicago@ieee.org
Life members.....	Richard Jaeger.....	630 231 7898

STUDENT BRANCH & STUDENT BRANCH SOCIETY CHAPTER CHAIRS

Northwestern
DePaul
DeVry Addison
DeVry Chicago
Illinois Institute of Technology
University of Illinois at Chicago Circle

TBA = To Be Announced. The October issue will present our updated listing

IEEE Technical Societies, Professional Activities, and Chicago Chapter Briefs

To reply or obtain further details of the items, you may send an e-mail message to sec.chicago@ieee.org, or send a post card or place a phone message request to our Business Office including your name, mail address, and contact phone number. The Business Office data is on the Scanfax masthead.

Technical Interest Profile

Your personal Technical Interest Profile is the data you supplied as part of your application and subsequent membership renewal forms. We hope to use it to develop meeting programs and workshops. There are a number of opportunities for your career advancement and the maintenance of what we have come to call technical currency suggested by a compilation of these profiles, but we wonder how up-to-date they are. Please contact us as cited above.

Professional Registration

Our Chapter, Section, and Subsection meetings will be providing you with confirmation of attendance cards. We hope they will be accepted for credit toward your continuing education or professional resistration requirements. We are considering providing a moderate cost workshop for PE registration training. Please let us know of your interest by responding to the contacts above.

The IEEE Reliability Society, Chicago Chapter

We encourage individuals to present materials relating to quality and reliability at our program meetings. The Chapter Executive Committee is seeking members who would like to learn how a chapter is managed, with the intent to become an officer. If you have an interest, or for more information, please contact Dan Glab (Daytime- 847 520 8181 or Evenings- 312 763 7543).

The IEEE Nuclear and Plasma Science/Magnetics Society, Chicago Chapter Officers:

The Joint Nuclear and Plasma Science Society/ Magnetics Society has new officers for the 1996-1997 year. They are:

Chair	Tom Erber. IIT.	physerber@minna.iit.edu
Vice Chair	Francois Ostiguy, Fermilab	ostiguy@fnal.gov
Treasurer	Dave Carpenter, Vector Fields	dcarpenter@vectorusa.com
Secretary	Wei Chang, Rush-Presby.StLuke	chsng@ipc7.rad.rpslmc.edu

Please contact any of them for comments or program material to offer.

TECHNICAL SOCIETY CHAPTER BRIEFS AND SPOTLIGHTS

Scanfax abstracts briefs from IEEE literature for the purpose of suggesting areas of interest to members who are not members of the societies, with the hope of heightening interests, providing opportunities to maintain technical currency, and increasing participation in our chapters technical activities & administration.



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1-4 1/2