



Scanfax

JUNE, 1997

Institute of Electrical & Electronics Engineers

Chicago Section Newsletter

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Chicago Section Business Meeting-All Welcome

Tuesday June 10 • 7:15 PM

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

Visit the Chicago Section Home Page at <http://ieeefnal.gov>

IMMEDIATE OPENING: SENIOR SYSTEMS ENGINEER

De Leuw, Cather & Company seeks a systems engineer to lead a team designing a state of the art traveler information system. Develop documentation on system concept, interfaces and requirements. Oversee development of databases for traffic signals, traffic signs and a cellular phone based emergency call-in system. Integrate and test hardware and software for Intelligent Transportation Systems (ITS) and Data Acquisition and Control Systems. Candidates should have a BSEE or BSCS degree with 4 or more years of system design/development experience, including at least 2 years of system level design in real time data acquisition and control systems development. Familiarity with object oriented design and DBMS is required. Excellent verbal and written skills are a must. Knowledge of transportation industry is desirable but not required.

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JOB LOCATION: Primarily in Chicago, IL, U.S.A with occasional work in Schaumburg, IL, U.S.A and a possibility of limited duration trips in U.S.

Send references and resume to:

Mr. Syd Bowcott

Phone: (312)930-5147

De Leuw, Cather & Company

Fax: (312)930-0018

525 West Monroe Street - 10th Floor
Chicago, Illinois 60661

E-Mail: Sydney_Bowcott@parsons.com

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MEMBERSHIP & CHANGE OF ADDRESS IEEE Member Services: 800 678 4333 member.services@ieee.org IEEE Service Center, 445 Hoes Lane Piscataway, NJ 08854-4150 Scanfax change of address- contact business office	SUBMITTAL DEADLINES Sept. issue: July 25. Oct. issue: August 25. Submit text of announcements electronically to the editor at scanfax@ieee.fnl.gov. Announcements submitted to this address will also appear on the Chicago section Web site. Announcements not submitted electronically are due 1 week earlier than the above deadlines and will not automatically be posted on the Web. ADVERTISEMENTS: Contact business office.	



1997/1998 IEEE/IAS PROGRAM SCHEDULE

The Chicago Chapter of the IEEE Industrial Applications Society is pleased to announce the technical presentation topics for the 1997/1998 sessions:

- SESSION 1** Electrical Distribution System Selection Considerations
- SESSION 2** Circuit Breaker Selection and Application:
Comparison of Molded Case, Insulated Case and Power
Circuit Breakers Applications
- SESSION 3** Transformer Selection and Application:
Comparison of Liquid, Dry and Cast Coil Type Transformer
Applications
- SESSION 4** Application Considerations for Variable Frequency Drives
- SESSION 5** Stand-By, Co-Generation and Peak Shaving Power Generation
Applications

Final details on dates, times and locations will be presented in upcoming Scanfax issues.

Note: Attendance at IEEE technical meetings is acceptable as one PDH (Professional Development Hour) per meeting, where continuing education is required for renewal of the P.E. License.

***** SPECIAL NOTICE *****

Chicago Section-IAS/IES Chapter Executive Committee elections will be held on June 18th at the Como Inn. Anyone interested in becoming an Executive Committee Member should contact the IEEE business office at (630) 964-4333 for details

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ELECTRO -MAGNETIC
COMPATIBILITY
SOCIETY

MODIFIED MODE STIRRED METHOD

Norm Wehling, Elite Electronics

Wednesday, May 21, 1997

ABOUT THE TOPIC

Modified mode stirring provides a method for obtaining repeatable results at a fraction of the cost of alternative methods. Standard shielded enclosures can be used, without the need for RF absorbers, even in the troublesome frequency range between 30 MHz and 200 MHz.

ABOUT THE SPEAKER

Norm Wehling received his BSEE from the Illinois Institute of Technology in 1960 and has been employed as an EMC engineer at Elite since then. He is a member of the IEEE and has worked on both of the IEEE EMC symposiums held in Chicago. He has served as secretary, vice-chairman and chairman of the Chicago G-27 group, is a Registered Professional Engineer and a NARTE Certified EMC Engineer.

PLACE

Lucent Technologies Bell Labs
2000 Naperville Road
Naperville, Illinois
630-979-2000

TIME

7:15 p.m. Social & refreshments
7:30 p.m. presentation

DIRECTIONS:

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

RESERVATIONS

Those wishing to attend may make their reservations by calling: 800-898-4333, the IEEE Message Center

On October 30, 1997, the Biomedical Engineering Community will gather in Chicago

19th Annual International Conference
IEEE/EMB SOCIETY
 Chicago USA



30 October to 2 November 1997

"Magnificent Milestones and Emerging Opportunities in Medical Engineering"

Plan now to attend EMBS'97. The venue for the conference is the Chicago Marriott Downtown, located along Chicago's Magnificent Mile, in the middle of world class shopping, restaurants, and cultural events.

The technical sessions will include both poster and platform sessions. Posters will be prominently displayed in the Grand Ballroom, along with the Exhibits and Coffee Break Areas. Meeting topics include:

- Cardiovascular System
- Imaging/Image Processing
- Clinical Engineering
- Medical Informatics
- Neuromuscular Systems
- Physiological Systems
- Instrumentation, Sensors, Devices
- Signal Processing
- Electromagnetic Issues
- Developing Areas

A number of mini-symposia will be held in parallel with the technical sessions and over the lunch hours. In addition to the technical sessions, many pre-conference workshops are being planned, which will be held on October 28 and 29.

Students, please note there will be an IEEE/EMBS Whitaker Foundation Student Paper Competition, and an Undergraduate Student Design Competition.

Web Update: <http://www.eecs.uic.edu/~embs97>

email: embs97@ieee.org

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The IEEE Chicago Section at its Annual Awards Dinner on April 19, 1997 recognized three new IEEE Fellows in our Section. In addition, we also honored several students, as well as their Student Branch and Student Chapter Advisors. Our Section also wishes to acknowledge the support of the local companies and an educational institution who helped to make this event so successful.

SPONSORS:

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NEW IEEE FELLOWS FOR 1997:

Dr. David E. Borth
 Prof. Michael L. Honig
 Dr. Fuyun Ling

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 Motorola, Inc.

IEEE FACULTY ADVISORS:

DePaul University
 DeVry Institute of Technology (Chicago)
 DeVry Institute of Technology (DuPage)
 Illinois Institute of Technology

Professor Chengwen Liu
 Professor Thomas Varetoni
 Professor Ahmed Khan
 Professor Guillermo Atkin
 Professor David Patterson
 Professor Alan V. Sahakian
 Professor Sharad R. Laxpati

Northwestern University
 University of Illinois at Chicago

STUDENT AWARDEES:

DePaul	Scholarship: Caroline St. Clair	Leadership: Paula Uscian
DeVry, Chicago	Scholarship: Ronald Bennett	Leadership: Gary Collins
DeVry DuPage	Scholarship: Doreen Davis	Leadership: Scott Slechta
IIT	Scholarship: Yijin Woo	Leadership: Samina Haque
Northwestern	Scholarship: Hiroshi Noguchi	Leadership: Shiuh Yuan Chen
UIC	Scholarship: Rajesh Verma	Leadership: Oki Villareal

SPECIAL RECOGNITION:

Illinois Institute of Technology:	Daniel Scire
University of Illinois at Chicago:	Hiep Doan

Engineering in Medicine & Biology Society

Call for volunteers

For the past two years, local EMBS activities have been organized by a steering committee consisting of Judy Gempeline, Bob Jaeger, Connie Kelly, Mel Lace, Alan Sahakian, Adam Schoenwald, Jack Sherman, and Sergio Shkurovich. The chapter would like to elect a slate of officers to continue these efforts.

Anyone interested in volunteering to be an EMBS officer, or in assisting with the planning of upcoming events, is urged to contact Judy Gempeline at j.gempeline@ieee.org, or 847-459-9265.

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UIC The University of Illinois
 at Chicago

Off-Campus Graduate Engineering Program

accommodating working adults with evening classes at Chicago suburban locations

The University of Illinois at Chicago (UIC) is one of the top graduate research universities in the country. It annually awards approximately 200 PhD and 1,300 master's degrees. UIC is committed to serving the educational needs of the entire metropolitan area. The Off-Campus Graduate Engineering Program accommodates working adults by scheduling evening classes at suburban locations. These classes, offered one evening per week, are particularly suited to working students. Locations include Oakbrook, Schaumburg, Palatine, and Rockford. Reasonable cost has long been the standard for Illinois residents at state-supported universities such as UIC.

The engineering faculty of more than 120 talented individuals are committed to ensuring that students who earn their degrees from UIC are well prepared to succeed in the field of engineering. The faculty are active researchers, attracting substantial funding support each year. As teachers, mentors, and advisors, they are generous with their knowledge and receptive to individual student needs.

Planning to take a graduate course this fall?

Please file an application for admission by May 30, 1997, for degree admission or July 11, 1997, for nondegree admission.

Fall Semester 1997: August 25 to December 12, 1997

- | | |
|----------|---|
| ME 401 | <i>Applied Stress Analysis I</i> |
| ME 403 | <i>Introduction to Composite Material Design</i> |
| ME 423 | <i>Heat Exchangers</i> |
| EECS 470 | <i>Introduction to Software Engineering</i> |
| EECS 474 | <i>Object-Oriented Languages and Environments</i> |
| EECS 516 | <i>Optimal and Adaptive Digital Filters</i> |
| EECS 532 | <i>Advanced Digital Communications</i> |
| CEMM 594 | <i>Special Topics in Civil Engineering, Mechanics, and Materials: Transportation Research Seminar</i> |

This schedule is subject to change without notice.

For more information, contact the Coordinator, Off-Campus Engineering Programs (MC 160), 851 South Morgan Street, Room 818, Chicago, Illinois 60607-7050.

Phone: 312/996-2311 Fax: 312/413-7950 E-mail: cmk-ob@uic.edu

DEIS, PELS,
and
Fox Valley Subsection
present

Evaluation of Environmental Stress Cracking Resistance of High Temperature Clear Plastics for High Voltage Electrical Devices

Jeff Moore
S&C Electric Co., Chicago, IL

Wednesday, June 25, 1997

About the Topic

Clear plastics compete with glass for applications that require visual access into electrical devices. Many of these applications involve high temperatures, chemical exposures, and a constant state of stress from either pressure or vacuum. The ability of clear plastics to maintain long term integrity in the presence of these challenges will dictate how often they can replace glass. This talk is presented to examine the Environmental Stress Cracking Resistance performance of high temperature clear plastics against a battery of tests designed to evaluate their integrity.

About the Speaker

Jeff Moore holds a B.S. degree in Metallurgical Engineering from the University of Illinois at Urbana/Champaign, and a Masters degree in Materials Engineering from IIT, Chicago, IL. He is currently a Senior Materials and Process Engineer with S&C Electric Co., Chicago, IL.

Place

Jerry Sharko's
2225 Ogden Ave.
Lisle, IL

Time

6 p.m.	Social
7 p.m.	Dinner
8 p.m.	Presentation

For Reservations

Call the IEEE business office at 800-898-IEEE or 630-964-4333. Dinner is \$15 per person and the presentation is free. Dietary and vegetarian meals can be requested when you make your reservation.

Further Info:

Howard W. Penrose at h.penrose@ieee.org

DEIS and PELS
present

Low and Medium Voltage Soft Start Technology and Applications

Skip Shaffer, Saffronics, Wheaton, IL

Tuesday, June 17, 1997

About the Topic

This talk will present technology and application identification for low and medium voltage soft starts. The purpose of soft starts is to reduce motor in-rush currents and to keep starting torque to a minimum, improving electric motor and load life.

About the Speaker

Skip Shaffer has over 15 years as a technical sales person for General Electric motors, controls, and distribution. Then ten years with Furnas/Nordic Controls as the Business Unit Manager of reduced voltage solid state starters. For the past three years Mr. Shaffer has been the Regional Sales Manager for solid state starters with Saffronics. Saffronics is a manufacturer of solid state starters with over 25 years of design and application experience with soft starts and drives.

Place

Dreisilker Electric Motors, Inc.
352 Roosevelt Rd
Glen Ellyn, IL
Park & Enter through east side of building.

Time

6:30 p.m.	Social
7:00 p.m.	Presentation

Reservations: Call the IEEE Business Office at 800-898-IEEE or 630-964-4333.

Further Information: Contact Howard W. Penrose at h.penrose@ieee.org

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and other information or call the
IEEE Chicago Section Business
Office at 630 964 4333.**

