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## TIME SENSITIVE MATERIAL

### CALENDAR OF EVENTS

For reservations please call IEEE Office at (708) 963-3828 before the stated deadline  
Copy Deadline for October SCANFAX is August 26, 1992

|                                             |                                                                       |                                                           |                                                                      |                                                              |
|---------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|
| September 8<br>Tuesday                      | Chicago Section                                                       | Executive Committee                                       | Motorola Center<br>1295 East Algonquin Rd.<br>Schaumburg, Il.        | Meeting: 7:15 PM                                             |
| September 14 & 15<br>Monday &<br>Tuesday    | The Lendman Group                                                     | IEEE Technical<br>Career Fair                             | Embassy Suite Hotel<br>707 E. Butterfield Rd.<br>Lombard, Il.        | Hours: 3:00 PM -<br>8:00 PM                                  |
| September 15<br>Tuesday                     | Chicago Section<br>Conference Committee/<br>IEEE Standards Department | IEEE Standards<br>Seminar                                 | Radisson Hotel<br>1400 Milwaukee Ave.<br>Glenview, Il.               | Call for Details<br>(908) 562-3809                           |
| September 23<br>Wednesday                   | Chicago Section<br>Kickoff Dinner                                     | Challenges Facing<br>Nuclear Power                        | Sharko's Restaurant<br>1 West Roosevelt Rd.<br>Villa Park, Il.       | Social: 6:00 PM<br>Dinner: 7:00 PM<br>Meeting: 8:00 PM       |
| September 30<br>Wednesday                   | EMC<br>Society                                                        | Finite Elements in<br>Modeling of EMI                     | AT&T Bell Laboratories<br>2000 N. Naperville Road<br>Naperville, Il. | Social: 7:15 PM<br>Meeting: 7:30 PM                          |
| September 30<br>Wednesday                   | IEEE Videoconference                                                  | Emerging Technologies -<br>Will Your Company<br>Be Ready? | College of DuPage<br>22nd St. & Lambert Rd.<br>Glen Ellyn, Il.       | Call IEEE Office<br>(708) 963-3828<br>Presentation: 11:00 AM |
| October 18 thru 21<br>Sunday -<br>Wednesday | System, Man &<br>Cybernetics Society                                  | Information Transfer<br>Processing and<br>Decision Making | Knickerbocker Hotel<br>163 E Walton Place<br>Chicago, Il.            | Call for Details<br>(312) 567-3406                           |
| October 29<br>Thursday                      | Communications<br>Society                                             | Wireless<br>Symposium                                     | University of Illinois-Chicago<br>840 S. Wood St.<br>Chicago, Il.    | Call for details<br>(708) 713-1455                           |

The IEEE Chicago Section would like to thank Secretarial Unlimited, Inc., our local office and answering service, for their excellent response to our members' needs during the 1991/2 term of our elected Officers. Their prompt, courteous, and unstinting efforts have benefitted us personally and professionally in the following activities:

- Accepting meeting reservations and reporting them to the cognizant event chair or contact person,
- Handling seminar registrations before and during an event;
- Producing a major special mailing and responding to the resulting requests;
- Securing answers to member inquiries expeditiously;
- Offering helpful advice for newly discovered problem situations;
- Providing competent secretarial services when necessary; and
- Being exceptionally courteous even under very trying circumstances.

Therefore we have felt quite comfortable in recommending their services to other organizations in need of such support, and look forward to counting on Secretarial Unlimited's assistance in the future.

Barry Brusso, IEEE Chicago Section Chairman - 1992/93

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## SCANFAX DEADLINES

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|--------|----------|-----------|
| OCT    | AUG 26   | SEP 15    |
| NOV    | SEPT 24  | OCT 15    |
| DEC    | OCT 28   | NOV 15    |
| JAN 93 | NOV 25   | DEC 15    |
| FEB    | DEC 21   | JAN 15    |
| MAR    | JAN 28   | FEB 15    |
| APR    | FEB 25   | MAR 15    |
| MAY    | MAR 25   | APR 15    |
| JUNE   | APR 28   | MAY 15    |

**THESE ARE FIRM DEADLINES FOR ADS AND COPY!!!**

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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 or phone direct to: 1-800-678-4333. We cannot forward this information for you, so please do not send it to the local office.



# Technical Career Fair

**MONDAY, SEPTEMBER 14, 1992**

**TUESDAY, SEPTEMBER 15, 1992**

**3:00 PM - 8:00 PM EACH DAY**

**Embassy Suites Hotel - Lombard/Oak Brook  
707 East Butterfield Road, Lombard, IL**

- No cost, no obligation
- Confidentiality assured
- No pre-registration
- Interviews on the spot in various technical fields
- Degree and two or more years' experience required

*For a list of participating companies, see the employment section of  
THE CHICAGO TRIBUNE on Sunday, September 13, 1992*

**Sponsored by the Chicago Section of The Institute of Electrical and Electronics Engineers.  
Produced by The Lendman Group, the nation's oldest and largest job fair producer, and Payne Lendman, the outplacement and human relations consulting division of The Lendman Group.**

**IEEE STANDARDS SEMINAR – CHANGES IN THE NATIONAL ELECTRICAL SAFETY CODE ("NESC")**  
THE CHICAGO SECTION'S CONFERENCE COMMITTEE IS PROMOTING THIS SEMINAR  
ORGANIZED BY THE IEEE STANDARDS DEPARTMENT

|               |                                                                                                                                                                                                                     |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE:         | Tuesday, September 15, 1992                                                                                                                                                                                         |
| PLACE:        | Radisson Hotel, 1400 Milwaukee Avenue, Glenview, IL                                                                                                                                                                 |
| SCHEDULE:     | 08:00 AM - 08:30 AM — Registration<br>08:30 AM - 04:30 PM — Seminar                                                                                                                                                 |
| FEES:         | \$195 for IEEE Members, \$225 for non-members<br>(10% discount for 3 or more attendees from the same organization)                                                                                                  |
| REGISTRATION: | Call IEEE Standards Dept directly at (908) 562-3805 in Piscataway, NJ<br>* * * TO GIVE OUR SECTION ITS ATTENDANCE CREDIT, BE SURE TO CITE * * *<br>* * * THE IEEE CHICAGO SECTION AS YOUR INFORMATION SOURCE! * * * |

### ABSTRACT

The 1993 Edition of the "NESC" is being published in August. During this Seminar you will learn about the new code directly from the experts who participated in this revision. They will review the basic code requirements while focusing on the important revisions and additions which will impact your future work.

Several interactive – hands-on – problem-solving sessions and exercises will help you put your new code knowledge into practice quickly.

For detailed travel directions call our Answering Service at (708) 963-3828.  
Please address other questions about this Seminar directly to IEEE at (908) 562-3805.

## IEEE MEETING NOTICE

### CHICAGO CHAPTER - IEEE EMC SOCIETY

DATE: WEDNESDAY - SEPTEMBER 30, 1992  
Refreshments 7:15 P.M., Meeting 7:30 P.M.

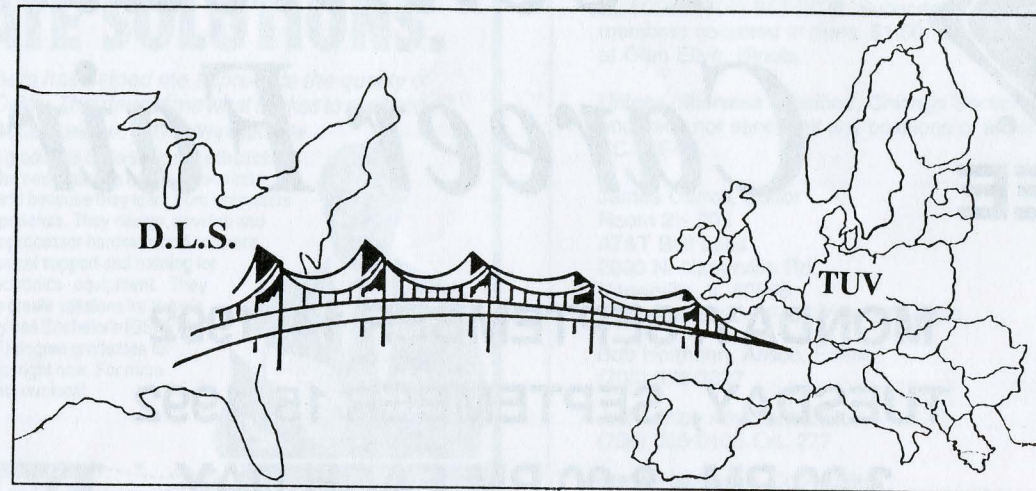
LOCATION: AT&T BELL LABORATORIES  
2000 N. NAPERVILLE ROAD  
NAPERVILLE, ILLINOIS

SPEAKER: FROM MAC NEAL-SCHWENDLER CORP.,  
ELECTRO MAGNETIC APPLICATIONS DEPARTMENT

TOPIC: USE OF FINITE ELEMENTS IN MODELING OF EMI  
This will be an applications oriented talk & demonstration which shows computer modeling of various EMI phenomena.

FOR RESERVATIONS & DIRECTIONS: CALL IEEE OFFICE 708-963-3828

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## CONFERENCE NOTES - PAST CONFERENCES

### CHICAGO SECTION LIFE MEMBERS

The first of several localized area Life Member meetings was held June 2 at the Motorola Galvin Center. Summaries of the six short presentations and discussions will be in future Scanfax notes. Hosted by the Northwest Subsection, 33 members and guests heard 6 presentations before lunch and toured the Motorola Museum after. A set of history of IEEE slides borrowed from Piscataway was shown during lunch. There are 495 Life Members in our section, 218 responded to the notice, 63 hope to attend at a later date. From the response, future gatherings are assured.

### CONSUMER ELECTRONICS CONFERENCE AND SHOW

The Consumer Electronics Show (ICCS) is an almost annual event, sponsored by the Electronics Industry Assn (EIA) and the Consumer Electronics Society (CES). The show was at McCormick Place. The conference was held at the Westin O'Hare. Paul Snopko reported the conference was the best attended and received the best response of recent years. Details will be in future issues of Scanfax.

The Chicago Chapter is moving to become reactivated after four years in limbo, with two anticipation modes - participative in the conferences, and getting interactive locally.

### SUPERCOMM-ICC

Supercomm is the result of joint efforts of the IEEE Communications Society, the U.S. Telephone Assn. (USTA), and the Telecommunications Industry Assn. (TIA). Howard Wolfman reported that the Supercomm attendance exceeded 2800 at the conference and 20,000 at the show. Details will be in future issues of Scanfax.

### CARTS, (CAPACITOR AND RESISTOR TECHNOLOGY SYMPOSIUM)

CARTS holds at least two symposia annually, internationally. The CHMT Chicago chapter invited the conference management to test the Chicago area by holding a 'mini-carts event'. Details will be in future issues of Scanfax.

### IEEE VIDEO TELECONFERENCE

These conferences have been poorly attended in past years and poorly attended this year. We will continue the contract for the present year at no cost to the section. The 'live' conferences will be held at the College of DuPage in Glen Ellyn. Reservations will be taken by our answering service. Reruns of the past conference tapes is being arranged. For info on past and future teleconferences, call Jack Sherman at 708-576-8222. A description of the forthcoming conferences is in this issue.

## CHICAGO SECTION CENTENNIAL 1993

In 1993, the Chicago Section will celebrate the 100th year of its founding. The Chicago Section was the first section formed by the young American Institute of Electrical Engineers (AIEE) outside New York headquarters.

A history committee has been formed to investigate the history of Chicago Section and plan various activities in the upcoming year. We would greatly appreciate ideas or information on Section History that the membership could provide.

A major event will be held during 1993 to celebrate our formation. Look to Scanfax for details.

Please send information  
and ideas to:

Dennis Lamont  
Weldy/Lamont Assoc. Inc.  
1008 East Northwest Hwy.  
Mount Prospect, IL 60056

**IEEE LIVE VIDEO TELECASTS — \$50**  
**Call Jack Sherman 708 576 8222 for info only**  
**11 AM WEST CAMPUS, OPEN CAMPUS CENTER, ROOM 128**  
**CALL IEEE RESERVATIONS to 708 963 3828; FAX 708 963 2122**

**SEPTEMBER 30      EMERGING TECHNOLOGIES, WILL YOUR COMPANY BE READY?**  
**Lead Presenter: Leo Young, Advanced Concepts, DoD.**

Emerging technologies present new opportunities - and risks. Will your company be ready to take advantage of the high-impact technologies scheduled to emerge within the coming five years? This videoconference will be an 'early warning' overview giving you a vision of tomorrow's world. The vision will challenge and encourage you to prepare now for the future. The applications include virtual reality, micromotors, sensors, intelligent highways, biological materials, and translating telephones.

**OCTOBER 29      HOW WILL WE BROADCAST HDTV?**  
**Lead Presenter: Jules Bellisio, Belcore, Red Bank NJ**

Recent advances in the technology of data compression have changed our ideas about the transport of television. This videoconference will review the most important compression algorithms. Digital signal processing techniques permit full motion video and integrated multi-media services.

**FOR INFO ABOUT TAPES OF PREVIOUS TRANSMISSIONS, Call 708 576 8222.**

- **HIGH PERFORMANCE OPTOELECTRONIC DATA COMMUNICATIONS**
- **WORKSTATIONS OF THE FUTURE: A USER'S PERSPECTIVE**
- **ENVIRONMENTAL ISSUES AND THE IMPACT ON ENGINEERS.**

**BUSINESS ADVERTISING IN SCANFAX AND AT CHAPTER MEETINGS**

Several Society Transactions take business card advertising. The fees vary.

Ed Barrett is our Scanfax advertising manager. Check his contact phone on the page 2 masthead and make your suggestion.

Handout leaflets and business cards have always been welcomed at CHMT meetings.

They will also be welcomed at Northwest Subsection meetings. FAX copy does not sell very well. Mail 10 or 20 to NWSS or CHMT at 1395 Highland Blvd., Hoffman Estates, 60195, or call 708 576 8222 to arrange drop off.

Better you should come to the meetings and be recognized.

**MEETING NOTICES FOR CHAPTERS, SUBSECTIONS AND RELATED SOCIETIES**

For notices of technical meetings, the proper route is the Jim Carroll, Scanfax. If you ask our IEEE office at Secretarial Unlimited to take reservations, please identify the contact person, the phone number, and name the sponsoring organization. They should be expected to get reimbursed for their services for those not IEEE Section or Chapter sponsored.

**VΩA International Parameter Centennial Continues**  
**IEEE CHICAGO EVENTS, FALL 1992**

Continuing this year's VΩA International Parameter Measurement Centennial, 1992/1993 KICKOFF DINNER MEETING is Wednesday, September 23, 1992. This Presentation subject on Nuclear Power is far-reaching and complex. The following related IEEE and ASME articles seem relevant:

- "TECHNOLOGY 1992 Power and Energy", IEEE SPECTRUM, January 1992, pgs 49-51.
- "Utilities get serious about efficiency", IEEE SPECTRUM, May 1992, pgs 42-43.
- "Safety at a Glance: Upgrading the Displays in a Nuclear Plant Control Room", MECHANICAL ENGINEERING, January 1992, pgs 56-60.

**1992-1993 CHICAGO SECTION — ORGANIZATION DIRECTORY (AS OF AUGUST 1992)**  
**THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (IEEE)**

|                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                      |                                                                                                                                                                                               |                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION CHAIRMAN *</b><br>Barry Brusso SM<br>S & C Electric<br>6601 N. Ridge Blvd<br>Chicago, IL 60626<br>OFC 312 338-1000 x370<br>RES 708 398-2483<br>FAX 312 338-3657                       | <b>PUBLICATIONS CHAIRMAN *</b><br>James J Carroll M<br>AT&T Bell Labs Rm 2H-205<br>Naperville Rd<br>Naperville, IL 60566<br>OFC 708 979-8820<br>RES 708 466-7250<br>FAX 708 979-8823                                                                                 | <b>MEMBERSHIP SERVICES *</b><br>Mary Leatherman<br>Motorola, Inc. Section<br>1301 E. Algonquin Road<br>Schaumburg, IL 60196<br>OFC 708 576-1657<br>RES<br>FAX                                 | <b>FOX VALLEY SUBSECTION CHMN</b><br>Martin Lake<br>AT&T Technologies<br>2600 Warrenville Road<br>Lisle, IL 60532<br>OFC 708 224-6626<br>RES<br>FAX                                                            |
| <b>SECTION VICE CHAIRMAN *</b><br>Len Cohen<br>Underwriters Labs<br>333 Pfingsten Road<br>Northbrook, IL 60062<br>OFC 708 272-8800 x2692<br>RES 708 966-5498<br>FAX 708 272-8129                 | <b>PROGRAM COMM CHAIRMAN *</b><br>Bob Camillone SM<br>Material & Guideway Systems<br>14409 Maycliff Drive<br>Orland Park, IL 60462<br>OFC 708 349-2740<br>RES 708 349-2790<br>FAX                                                                                    | <b>PROFESSIONAL ACTIVITIES *</b><br>John Waters LS<br>John Waters Associates<br>1004 Golfview<br>Mount Prospect, IL 60056<br>OFC 708 392-2733<br>RES 708 392-2733<br>FAX                      | <b>REGION 4 AWARDS COMM. CHAIRMAN</b><br>Dennis Lamont SM<br>Weldy/Lamont Assoc. Inc<br>1008 E. Northwest Highway<br>Mount Prospect, IL 60056<br>OFC 708 398-4510<br>RES 708 888-1534<br>FAX 708 398-0597      |
| <b>SECTION TREASURER *</b><br>Ed Capouch SM<br>Sargent & Lundy Engineers<br>55 E. Monroe Street<br><br>Chicago, IL 60603<br>OFC 312 269-6532<br>RES 708 394-4690<br>FAX 312 269-3680             | <b>FINANCE CHAIRMAN *</b><br>Donald P Reynolds<br>McAndrews, Held & Malloy<br>Northwestern Atrium Center<br>500 W. Madison (34th floor)<br>Chicago, IL 60606<br>OFC 312 707-8889<br>RES 708 325-2718<br>FAX 312 707-9155                                             | <b>SECTION AWARDS COMM. CHMN *</b><br>Carl R. Kannewurf SM<br>Electrical Engineering Dept<br>Northwestern University<br><br>Evanston, IL 60208<br>OFC 708 491-8163<br>RES 708 866-6145<br>FAX | <b>EMC SOC. CHAIRMAN</b><br>Don L. Sweeney M<br>DLS Electronic Systems Inc<br>10350 Dearlove Road<br><br>Glenview, IL 60025<br>OFC 708 699-9060<br>RES 708 724-3044<br>FAX                                     |
| <b>SECTION SECRETARY *</b><br>Jack Sherman LS<br>Motorola Comm. Section, Inc.<br>1395 Highland Blvd (H)<br>Hoffman Estates, IL 60195<br>OFC 708 576-8222<br>RES 708 885-4189<br>FAX 708 576-8221 | <b>STUDENT ACTIVITIES *</b><br>Mary Hart<br>Commonwealth Edison<br>P.O.Box 767 1st Ave<br>Chicago, IL 60690<br>OFC 312 294-7784<br>RES 708 400-0867 833-<br>FAX 312 294-8831 4238                                                                                    | <b>DIRECTOR - REGION 4 *</b><br>Howard Wolfman SM<br>Motorola Lighting Inc.<br>887 Deerfield Parkway<br>Buffalo Grove, IL 60089<br>OFC 708 215-6323<br>RES 708 564-1771<br>FAX 708 215-6311   | <b>ELECTRON DEVICES SOC CHMN</b><br>Carl R. Kannewurf SM<br>Electrical Engineering Dept<br>Northwestern University<br>Evanston, IL 60208<br>OFC 708 491-8163<br>RES 708 866-6145<br>FAX                        |
| <b>CENTENNIAL HISTORY *</b><br><br>George Thomas SM<br>Contemporary Control Systems<br>2500 Wisconsin Ave<br>Downers Grove, IL 60515<br>OFC 708 963-7079<br>RES 708 739-0813<br>FAX              | <b>SPECIAL EVENTS/</b><br><b>RECOGNITION DINNER CHMN *</b><br><del>Henry Korman LS</del><br><del>Gentry Technologies Inc</del><br><del>6N130 Highland Ave</del><br><del>Medinah, IL 60157</del><br>OFC 708 893-9352<br>RES 708 893-9352<br>FAX <i>Frank Lakowski</i> | <b>CONFERENCE CHAIRMAN *</b><br><br>Frank Heffley<br>Eagle Test Systems, Inc. Corp<br>1353 Armour Blvd<br>Mundelein, IL 60060<br>OFC 708 367-8437<br>RES<br>FAX 367-8640                      | <b>NORTHWEST</b><br><b>SUBSECTION CHAIRMAN</b><br>Jack Sherman LS<br>Motorola Comm. Section<br>1395 Highland Blvd (H)<br>Hoffman Estates, IL 60195<br>OFC 708 576-8222<br>RES 708 885-4189<br>FAX 708 576-8221 |
| <b>PAST SECTION CHAIRMAN *</b><br>John R. Truitt SM<br>Fluor-Daniel, Inc.<br>200 West Monroe Street<br>Chicago, IL 60606<br>OFC 312 368-3823<br>RES 708 682-0304<br>FAX 312 368-3529             | <b>EMPLOYMENT</b><br>Robert Schrage M<br>Commonwealth Edison<br>P.O. Box 767 SEED 836E<br>Chicago, IL 60690<br>OFC 312 294-2759<br>RES 708 968-4457<br>FAX 312 294-8477                                                                                              | <b>SCANFAX ADVERTISING</b><br>Ed Barrett SM<br>Hitachi-America, Ltd<br>500 Park Blvd (Suite 415)<br>Itasca, IL 60143<br>OFC 708 773-4864<br>RES 708 653-9049<br>FAX 708 773-9006              | <b>IEC DELEGATES</b><br><br>Ed Capouch<br>N. R. Orszula<br>John R. Truitt<br>John Waters                                                                                                                       |
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|                                                                                                                                                                                            |                                                                                                                                                                           |                                                                                                                                                                                                 |                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| CONSUMER ELECT SOC CHMN<br>Paul Phillips<br>Argonne National Laboratory<br>9700 S. Cass Ave.<br>Argonne, IL 60439<br>OFC 708 252-4343<br>RES 708<br>FAX 708 252-5983                       | POWER ELECTRONICS SOC CHMN<br>Robert Corbett<br>California Group<br>1613 California Ave<br>Rolling Meadows, IL 60008<br>OFC 708 594-3800, x207<br>RES<br>FAX 708 202-8094 | COMPUTER SOC CHMN<br>Joseph Feitler (Acting Chair)<br>Interactive Systems Corp<br>1901 N. Naper Blvd<br>Naperville, IL 60565<br>OFC 708 505-9100 x277<br>RES<br>FAX 708 505-9133                | NUCLEAR & PLASMA SCI SOC CHMN<br>Bob Camillone (Acting Chair)<br>Material & Guideway Syst.<br>14409 Maycliff Drive<br>Orland Park, IL 60462<br>OFC 349-2790<br>RES 349-2790<br>FAX                                         |
| POWER ENGIN SOC CHMN<br>Don Harris<br>Commonwealth Edison<br>P.O. Box 767<br>Chicago, IL 60690<br>OFC 312 294-8332<br>RES<br>FAX                                                           | COMPNTS, HYBRIDS, MFG TECH CHMN<br>John Sirevicius<br>Northern Telecom<br>6201 Oakton St.<br>Morton Grove, IL 60053<br>OFC 708 470-2107<br>RES<br>FAX 708 470-3209        | ENG IN MEDIC/BIOL SOC CHMN<br>Britt Derek<br>Alexian Brothers Medical Cntr<br>800 W Biesterfeld Road<br>Elk Grove Village, IL 60007<br>OFC 708 981-3593<br>RES 708 351-0354<br>FAX 708 981-5922 | RELIABILITY SOCIETY CHMN<br>Daniel J Glab<br>Shure Brothers, Inc<br>6454 N. Nashville Ave<br>Chicago, IL 60631<br>OFC 708 520-4405<br>RES 312 763-7543<br>FAX                                                              |
| COMMUNICATIONS SOC CHMN<br>Janusz Hyziak<br>Motorola, Inc.<br>Corp. Comput. & Communic. R&D<br>1201 Wiley Rd (#109)<br>Schaumburg, IL 60173<br>OFC 708 576-8426<br>RES<br>FAX 708 576-0892 | LASER & ELECT OPTICS SOC CHMN<br>Steve Hinterlong<br>AT&T Bell Labs<br><br>2000 Park Place (2E-234)<br>Naperville, IL 60565<br>OFC 312 713-5422<br>RES<br>FAX             | ANTENNAS PROPAGATION/<br>MICROWAVE THEORY SOC CHMN<br>Tom Jurgens<br>Fermi Natl Acc Lab<br><br>Box 500 MS 308<br>Batavia, IL 60510<br>OFC 708 840-4803<br>RES<br>FAX                            | ENGIN MANAGEMENT SOC/<br>PROF COMMUNICATIONS SOC CHMN<br>Joseph Feitler LS<br>Interactive Systems Corp<br><br>1901 N. Naper Blvd<br>Naperville, IL 60563<br>OFC 708 505-9100, x277<br>RES 708 383-8773<br>FAX 708 505-9133 |

\* EXECUTIVE COMMITTEE MEMBER

## IEEE CHICAGO SECTION EVENT RESOURCE GROUP

To augment planning, marketing and implementation of Chicago Section and Society events/presentations, a task force concept has been developed among Section committees. SubSection and Society planners should contact this group for support. The following is the scope of the resource.

| PROGRAM                                                                                             | CONFERENCE                                                                                    | STUDENT<br>ACTIVITIES                                                                                            | SPECIAL EVENTS                                                                                                                 |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Bob Camillone<br>Chair<br>708-349-2790<br>Hugh Edfors<br>Vice Chair<br>John Driver<br>Secretary     | Frank Heffley<br>Chair<br>708-367-8437                                                        | Mary Hart<br>Chair<br>312-294-7784<br>Angela Spoden<br>Student Branch Dir<br>Janine Moedernorfer<br>Outreach Dir | Henry Korman<br>Chair<br>708-893-9352<br>Frank Lakowski<br>Vice Chair<br>Bert Orszula<br>Secretary<br>John Waters<br>Treasurer |
| PUBLICATIONS                                                                                        | PROFESSIONAL<br>ACTIVITIES                                                                    | MEMBERSHIP<br>SERVICES                                                                                           | CENTENNIAL<br>HISTORY                                                                                                          |
| Jim Carroll<br>Editor<br>708-979-8820<br>Bob Hoffman<br>Assoc Editor<br>Joe Feitler<br>Assoc Editor | John Waters<br>Chair<br>708-392-2733<br><br>AWARDS<br>Karl Kannewurf<br>Chair<br>708-491-8163 | Mary Leatherman<br>Chair<br>708-576-1657<br><br>FINANCE<br>Don Reynolds<br>Chair<br>312-707-8889                 | George Thomas<br>CoChair<br>708-963-7070<br>Dennis Lamont<br>CoChair<br>Howard Wolfman<br>CoChair                              |

## 92-93 KICKOFF DINNER MEETING “THE CHALLENGES FACING NUCLEAR POWER”

**CORDELL REED, PE**

The Chicago Section, its sub-sections and societies are holding the 1992/1993 Kickoff Dinner Meeting on September 23, 1992. This presentation will explore the barriers facing the future of nuclear power in the United States and describe the design features of advanced reactor systems.

Our speaker for the evening is Cordell Reed, Senior Vice President, Commonwealth Edison Company. He has extensive knowledge and experience to administer engineering, construction, operations and technical support services for the company's six nuclear power stations.

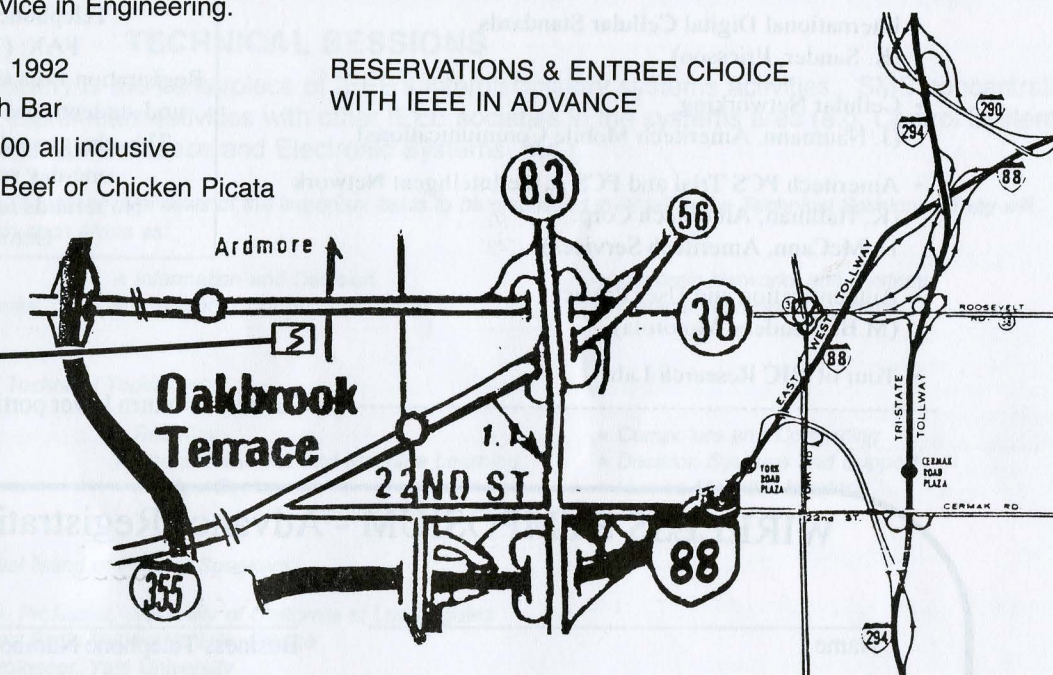
Cordell, a Chicago native, holds membership in ASME, Western Society of Engineers and is a fellow of American Nuclear Society. He has been recognized by the US Energy Department and the University of Illinois, Urbana for Distinguished Service in Engineering.

- Wednesday, September 23, 1992
- Social .....6:00 pm Cash Bar
- Dinner .....7:00 pm \$15.00 all inclusive
- Entree .....Prime Rib of Beef or Chicken Picata
- Meeting .....8:00 pm

RESERVATIONS & ENTREE CHOICE  
WITH IEEE IN ADVANCE

Sharko's Restaurant  
1 West Roosevelt Road  
Villa Park, IL 60181

IEEE CHICAGO  
SECTION OFFICE  
708-963-3828



## IEEE POWER ELECTRONICS SOCIETY — SEPT. 16TH LUNCHEON MEETING

Dr. Don Novotny, the Director of the *Wisconsin Electric Machines and Power Electronics Consortium* and a Professor at the University of Wisconsin-Madison, will be our Guest Speaker to discuss High-Frequency, Coaxial-Winding Power Transformers.

For information and reservations call Tim Moss, our Arrangements Chairman, at (312) 829-2525 [International Components Corp.] or at home at (312) 283-1384. The meeting location is expected to be in the O'Hare area.

The Program Committee would like to thank everyone who planned and participated in our Managing Change '92 conference.

Planning is underway to start a Consumer Electronics Society and a Systems, Man and Cybernetics Society. The IAS/IES Society needs additional active membership. Anyone interested is encouraged to contact the Member Services or Program Committees.

## WIRELESS SYMPOSIUM - Advance Registration Form

IEEE Chicago Chapter of the Communications Society  
University of Illinois, Chicago October 29, 1992

Topics include:

- Keynote Speakers  
(Dr. P.M. Chung, Dean UIC & J. Caile, Motorola)
- Wireless Access Technologies  
(Dr. J. Gluck, UIC)
- U.S. Digital Cellular Standards  
(K.F. Smolik, AT&T)
- International Digital Cellular Standards  
(K. Sander, Ericsson)
- Cellular Networking  
(J. Naumann, Ameritech Mobile Communications)
- Ameritech PCS Trial and PCS & the Intelligent Network  
(K. Hallman, Ameritech Corp.  
D. McCann, Ameritech Services)
- Authentication and User Privacy  
(M.B. Flanders, Motorola)
- Tour of UIC Research Labs

Send Completed Form and Payment to:  
Wireless Symposium Registration  
c/o Kenneth Smolik  
AT&T Bell Laboratories  
Room 1A-430  
1000 E. Warrenville Road  
Naperville, IL 60566  
Telephone: (708)713-1455  
FAX: (708)979-3983

Registration Fees are \$95 for IEEE members  
and students and \$125 for non-members.  
This charge includes admission for the  
one-day seminar and lunch.  
No refunds for cancellations after  
October 1, 1992.

-----Cut here & return lower portion as indicated above-----

## WIRELESS SYMPOSIUM - Advance Registration Form

|                                                                                                                                                  |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Name                                                                                                                                             | Business Telephone Number |
| Company/Organization                                                                                                                             | Room Number/ Mail Stop    |
| Street Address                                                                                                                                   | City/State                |
| IEEE Membership                                                                                                                                  |                           |
| Make checks payable to the Chicago Chapter of the Communications Society. To register by credit card, please complete the following information: |                           |
| <input type="checkbox"/> VISA <input type="checkbox"/> MasterCard <input type="checkbox"/> American Express                                      |                           |
| Account Number                                                                                                                                   | Expiration Date           |
| Cardholder's Signature                                                                                                                           | Date                      |

## 1992 IEEE International Conference on Systems, Man & Cybernetics

# Emergent Innovations in Information Transfer Processing and Decision Making

October 18 - 21, 1992

The Knickerbocker Hotel, 163 E. Walton Place, Chicago, Illinois 60611

FEATURING An Unprecedented Degree of International Participation

The Americas: Brazil, Canada, Chile, Mexico, USA

Europe: England, France, Germany, Italy, The Netherlands, Spain

The Far East: China, India, Japan, Korea, Taiwan

### TECHNICAL SESSIONS

The Systems, Man, and Cybernetics Society is the centerpiece of IEEE's interdisciplinary systems activities. SMC concentrates on the "larger system perspective," but coordinates activities with other IEEE societies in the systems area (e.g. Control Systems, Medical Systems and Infomatics, Telephony, Aerospace and Electronic Systems, etc.).

**Plenary Lectures** - The Plenary Lectures will present overviews of the important fields to be discussed in detail in the Technical Sessions. They will emphasize the latest concepts and innovations in such areas as:

- |                                        |                            |                                |
|----------------------------------------|----------------------------|--------------------------------|
| ■ System Science and Modeling          | ■ Information and Decision | ■ Dynamic Networks and Systems |
| ■ Learning Systems and Neural Networks | ■ Intelligent Control      | ■ Medical Information Systems  |
| ■ Power Systems                        |                            |                                |

**Technical Topics** - The general areas of Technical Topics are:

- |                               |                                        |                                |
|-------------------------------|----------------------------------------|--------------------------------|
| ■ System Science and Modeling | ■ Robotics                             | ■ Computers and Computing      |
| ■ Medical Informatics         | ■ Neural Networks and Machine Learning | ■ Decision Systems and Support |
| ■ Power Systems               | ■ Medical Systems                      | ■ Human-Machine Interface      |
| ■ Dynamic Networking Systems  |                                        |                                |

**Plenary Speakers** - The following is a partial listing of Plenary Speakers:

A. V. Balakrishnan, Professor, University of California at Los Angeles  
P. Borne, Professor, Ecole Central de Lille, France  
K. S. Narendra, Professor, Yale University  
C. Reed, Senior Vice President, Commonwealth Edison Company  
C. C. White, Professor, University of Michigan

### SPECIAL EVENTS

**Session on Chicago Culture** - Chicago culture will be highlighted in a three-hour special presentation on Monday morning, October 19. This session is open to all conference participants, as well as to registered students, spouses, and guests.

- Chicago History - R. F. Irving, Professor of Humanities, Illinois Institute of Technology
- Chicago Architecture - N. S. Macris, Commonwealth Edison Company
- "Here's Chicago" - A slideshow overview of the "Windy City" presented by Chicago Adventures, Inc.

**Dinner Cruise** - Please join us for a unique experience in dining and entertainment. The "Spirit of Chicago" sails Monday evening, October 19, 1992, cruising Lake Michigan along the city's near north side. The cost of the dinner cruise is included in the three-day registration fee for IEEE members and non-members. Students, spouses, and guests can participate for an additional charge.

**Dinner Reception** - A dinner and reception will be held on Tuesday evening, October 20, 1992. The cost of the dinner/reception is included in the three-day registration fee for IEEE members and non-members. Students, spouses, and guests can participate for an additional charge.

**Tours** - To help acquaint newcomers to the "Windy City," SMC '92 has arranged three special tours that encompass many of Chicago's most popular attractions. Anyone attending SMC '92, including registered students, spouses, and guests, can enjoy these tours at a special, reduced rate.

The deluxe motorcoaches will depart from the Knickerbocker Hotel at the following times:

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| ■ Tour A: 1:00 PM, Monday, Oct. 19  | "Chicago, My Kind of Town"       |
| ■ Tour B: 8:30 AM, Tuesday, Oct. 20 | "Frank Lloyd Wright Tour"        |
| ■ Tour C: 1:00 PM, Tuesday, Oct. 20 | "Art Institute & Shedd Aquarium" |

## TUTORIAL SESSIONS

Three tutorial sessions will be offered during the 1992 IEEE International SMC Conference. These sessions will cover the topics of Neural Networks, Neuro-Control, and SCADA Systems. All three tutorials will be held on Sunday, October 18, and each will consist of two three-hour lessons: one in the morning and one in the afternoon. Space will be limited, so early registration is encouraged.

### Tutorial Session A - Interactive Neural Network Simulation on Personal Computers

Dr. Granino Korn will describe modeling new neural networks of your own design with interactive simulation on multiple neural networks. These neural networks can be combined with other dynamic systems, such as robot arms or physiological models. Demonstrations include back-propagation learning of discrete-pattern decisions, function mapping based upon table learning or random inputs, competitive learning and counter-propagation, adaptive-resonance emulation, Hopfield and BAMs, vector quantization of random inputs, transversal filters and predictors, and nonlinear neuron layers for biological modeling. Textbook is included in tutorial fee. Dr. Korn is internationally known for his work on simulation and analog and hybrid computation. He holds a PhD in physics from Brown University. After 10 years in the aircraft industry, Dr. Korn was a Professor of Electrical Engineering at the University of Arizona. He has written over 90 technical papers and numerous books, edited engineering handbooks, and is an associate editor of *Simulation*. He is a Fellow of the IEEE.

### Tutorial Session B - Neuro-Control: Concepts and Applications

Dr. Tariq Samad will describe a variety of neuro-control approaches, including applications and relevant research topics. An overview of neural networks will be followed by special architectures for neuro-control. The discussion will include modeling existing controllers, developing direct and inverse process models, estimating process parameters, tuning controllers, and training neural networks as optimal nonlinear controllers. Applications include available products and deployed systems. Dr. Samad is a Senior Principal Research Scientist at Honeywell Sensor and System Development Center. He is Honeywell's senior researcher in neural networks, and has focused recently on modeling and control applications. He holds a PhD degree in Electrical and Computer Engineering from Carnegie Mellon University. He has three patents in neural networks and five other patents pending. Dr. Samad co-developed and taught a graduate course in neural networks at the University of Minnesota. He has published one book and a number of refereed journal and conference articles.

### Tutorial Session C - Operations and Business Functions within an Open System Architecture

Mr. Barry Lyons will outline the appropriate steps for planning, procuring, and implementing a Supervisory Control and Data Acquisition System (SCADA), and will explain appropriate applications. He will also introduce the topic of fully integrating utility operations and business functions in an open-architecture. He will present guidelines for addressing applicability, growth potential, and relative cost, and will describe the implementation of the SCADA/business system with proper relationships between manufacturers, consultants, and the utility. Mr. Lyons has over 20 years experience in utility and industry computer control system applications, including power distribution, transmission and generation, gas transmission, water distribution, and other process control and materials handling systems. He holds an MS degree in Control Systems from the University of Manchester. He has conducted SCADA courses and workshops at several universities and Public Power Associations.

## REGISTRATION INFORMATION

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

### Advance Registration

|     |                               |       |            |
|-----|-------------------------------|-------|------------|
| "X" | <u>Check Applicable Block</u> |       |            |
| ( ) | IEEE Member:                  | \$295 | = \$ _____ |
| ( ) | Non-member:                   | \$325 | = \$ _____ |
| ( ) | (After Sept. 11:              | \$350 | = \$ _____ |

### Other Fees, Tutorials, Tours

|     |                                |      |            |
|-----|--------------------------------|------|------------|
| "X" | <u>Check Applicable Blocks</u> |      |            |
| ( ) | Full time student:             | \$25 | = \$ _____ |
| ( ) | Spouse/Guest:                  | \$5  | = \$ _____ |

### General Information

#### Included in Registration Fees:

Full, three-day fee for IEEE members and non-members includes Proceedings, Dinner/Cruise, Dinner/Reception, admission to all sessions, and reduced rate for tours.

Student fee includes admission to all sessions and reduced rate for tours.

Spouse (or guest) fee includes admission to the "Chicago Culture" Session, reduced rate for tours, and use of the guest lounge.

After September 11, 1992, the registration fee for IEEE members and non-members will be \$350.

|     |                     |        |            |
|-----|---------------------|--------|------------|
| ( ) | Tutorial A:         | \$165* | = \$ _____ |
|     | *Includes \$40 Text |        |            |
| ( ) | Tutorial B:         | \$125  | = \$ _____ |
| ( ) | Tutorial C:         | \$125  | = \$ _____ |

(Student, Spouse, or Guest Fee for:)

|     |            |      |            |
|-----|------------|------|------------|
| ( ) | Cruise:    | \$55 | = \$ _____ |
| ( ) | Reception: | \$35 | = \$ _____ |

(Number)

|     |               |      |            |
|-----|---------------|------|------------|
| ( ) | Tour A: ( ) @ | \$20 | = \$ _____ |
| ( ) | Tour B: ( ) @ | \$20 | = \$ _____ |
| ( ) | Tour C: ( ) @ | \$20 | = \$ _____ |

TOTAL FEES = \$ \_\_\_\_\_

Mail to: SMC '92 Conference Office

Illinois Institute of Technology

10 West 32nd Street, Room 218E1

Chicago, Illinois 60616

Payment Method: ( ) Check Enclosed (Payable to "IIT")  
( ) Visa ( ) Mastercard

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For questions call (312) 567-3406