

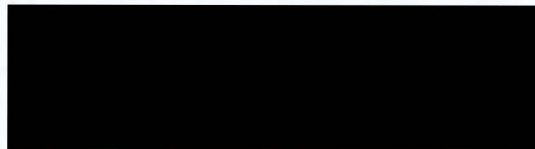


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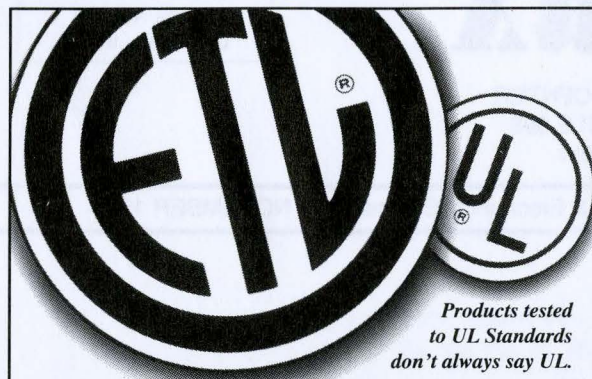
TIME SENSITIVE MATERIAL

CALENDAR OF EVENTS

For reservations please call IEEE Office at (312) 236-4333 before the stated deadline
The meeting details are stated in their relevant announcements inside

November 9 Tuesday	Chicago Section	Executive Committee	DeVry-DuPage 1221 N. Swift Rd. Addison, Il.	Food Service: optional Meeting: 7:15 PM
November 10 Wednesday	Power Engineering Society	The 1992 Chicago Flood	Chicago Bar Association 321 S. Plymouth Court Chicago, Il.	Social: 11:30 AM Lunch: noon Meeting 12:30 PM
November 13 Saturday	Fox Valley Subsection	Carol Stream General Mail Facility	Mail Facility-Employee Entrance 500 E. Fullerton Ave. Carol Stream, Il.	Tour: 10:00 AM Reservation Required 312.236.IEEE
November 16 Tuesday	Electron Devices/ LEOS Societies/ NW Subsection	Electronic and Optical Packaging Applications: Technologies & Applications	Motorola Center 1301 Algonquin Rd. Schaumburg, Il.	Meeting: 7:00 PM Reservations Required 312.236.IEEE
November 17 Wednesday	Computer/Engineering Management/Professional Communications Societies	Chicago's National Weather Service Facilities	Lewis University Campus Route 53 Romeoville, Il.	Tour 7:00 PM Reservations Required 312.236.IEEE
December 1 Wednesday	EMC Society	Current Issues of EMF	AT&T Bell Labs 2000 N. Naperville Rd. Naperville, Il.	Social: 7:15 PM Meeting: 7:30 PM
December 1 Wednesday	PE/IA/IE Chapters	A NEW Switched Reluctance Starter/ Generator	Motorola Center 1301 Algonquin Rd. Schaumburg, Il.	Social: 6:00 PM Meeting: 7:00 PM
December 14 Tuesday	Chicago Section	Executive Committee	DeVry-DuPage 1221 N. Swift Rd. Addison, Il.	Food Service: optional Meeting: 7:15 PM

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SCANFAX DEADLINES

ISSUE	COPY DUE	MAILED ON
DEC	OCT 27	NOV 15
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MAR	JAN 26	FEB 15
APR	FEB 25	MAR 15
MAY	MAR 25	APR 15
JUNE	APR 28	MAY 15

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THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
FOX VALLEY SUBSECTION



CAROL STREAM GENERAL MAIL FACILITY

NOVEMBER TOUR ANNOUNCEMENT

SATURDAY, NOVEMBER 13, 1993
10:00 A.M.

Enjoy a tour of the new Carol Stream General Mail Facility and watch how computer technology has revolutionized the accuracy and speed of sorting and distributing your mail.

Have you recently noticed a bar code printed on the bottom of your mail envelope? At the Carol Stream Facility, you will see how the Bar Code System works and be surprised that operators in another state read the mail via video transmission and input the zip code of the mail into the computer system which then prints the bar code.

Quick Facts:

1900 people work there
760,000 sq feet of building space
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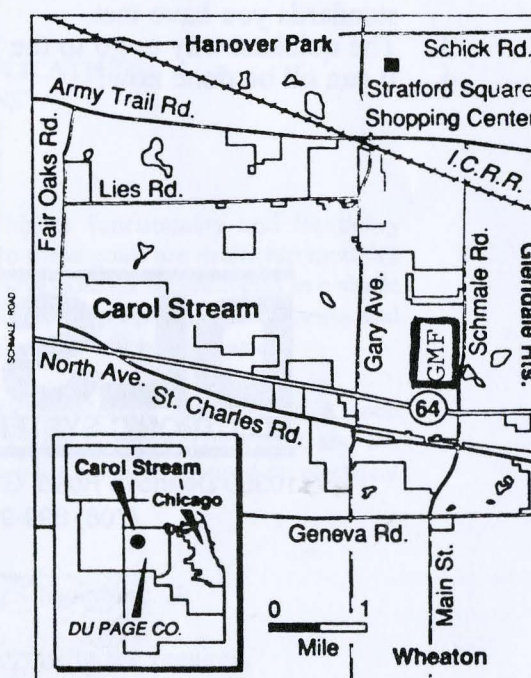
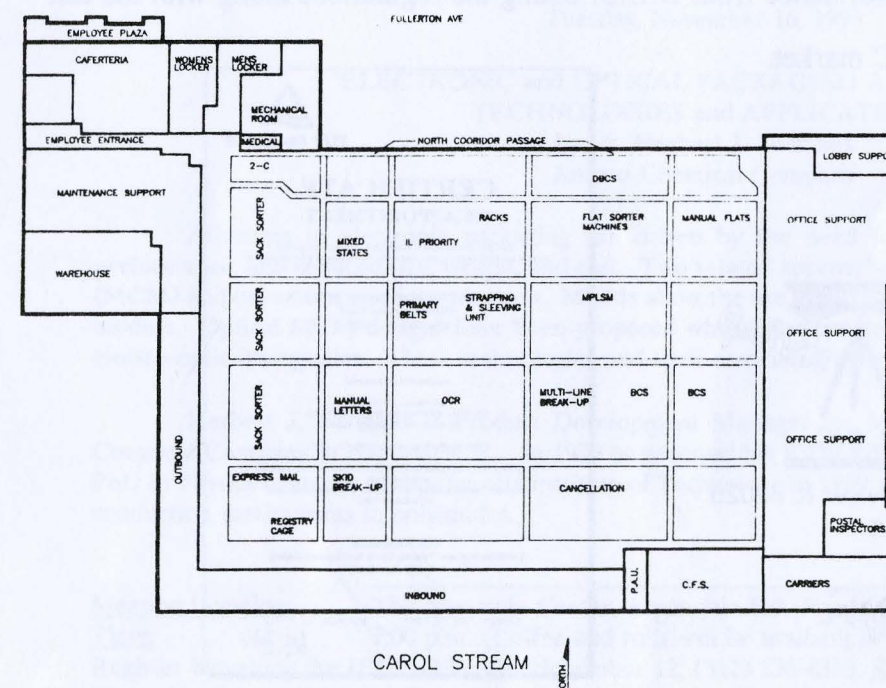
From the Chairman of the section

Those of you who attended the Centennial Banquet at the Museum of Science and Industry know what a great job done by the Centennial committee co-chaired by Dennis Lamont and George Thomas. Those of you who didn't attend this time can plan now to attend the next centennial celebration in the year 2093. In recognition of the outstanding work done by the centennial committee I am presenting each of the co-chairs an IEEE kite. In addition to the centennial committee I want to take this opportunity to thank Region 4 and IEEE headquarters for their support and assistance.

Those members who didn't attend the centennial dinner don't have to wait till 2093 to participate in IEEE activities. You are invited and encouraged to attend and participate in our many technical meetings and monthly executive meetings. The Chicago Section's next social event is the annual Recognition dinner which will be held in April. This event will give you a chance to network socially with your colleagues and give you the opportunity to meet the outstanding electrical engineers and engineering students in the Chicago area.

Len Cohen

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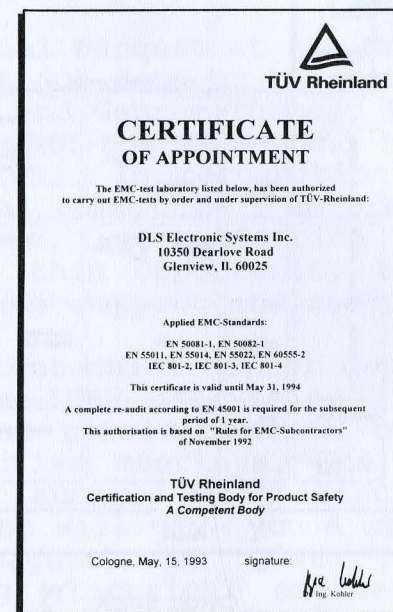
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1. Do the testing at D.L.S. Electronic Systems, Inc., a TÜV Rheinland appointed test laboratory.
2. Meet the CISPR emissions requirements based on EN55081-1 or the specific Product Standard for your device.
3. Meet the immunity requirements of EN55082-1 or the specific Product Standard for your device.
4. Reports are issued by D.L.S. Electronic Systems, Inc.
5. D.L.S. will also issue a Certificate of Conformance which lists the requirements you have met.
6. Manufacturer/importer must issue a Declaration of Conformity and have it signed by the importer or their legal representative in Europe. This should be a simple procedure since you can show the importer the Certificate of Conformance along with D.L.S.'s Certificate of Appointment. (Note: if multiple importers are being used, it is recommended they each have a Declaration of Conformity on file.)
7. Manufacturer must put the CE mark on the product with the year tested (the year is highly recommended at this time by D.L.S.)
8. Market the product in all of Europe.

Note: There are some national deviations in a few countries, such as ergonomics for monitors & keyboards in Germany which must be done before marketing in these specific countries.

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IEEE MEETING NOTICE

CHICAGO CHAPTER - IEEE EMC SOCIETY

DATE: WEDNESDAY - DECEMBER 1, 1993
Refreshments 7:15 P.M.
Meeting 7:30 P.M.

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

SPEAKER: MARK LEWANDOWSKI
COMMONWEALTH EDISON

TOPIC: CURRENT ISSUES OF EMF

This presentation will discuss the current issue of EMF (electro magnetic force), its history, its science and how it has been impacting the utility industry and how Commonwealth Edison is responding.

FOR RESERVATIONS & DIRECTIONS: CALL IEEE OFFICE 312-236-4333



IEEE ELECTRON DEVICES SOCIETY

Northwest
Subsection

LEOS SOCIETY

JOINT MEETING OF THE ELECTRON DEVICES
SOCIETY, THE NORTHWEST SUBSECTION AND LEOS SOCIETY

Tuesday, November 16, 1993

"ELECTRONIC and OPTICAL PACKAGING APPLICATIONS:
TECHNOLOGIES and APPLICATIONS"

by Dr. Herbert J. Neuhaus
Amoco Chemical Company

Advances in electronic packaging are driven by the need for higher functionality and frequency performance, and reduced size, weight, and cost. Two related approaches to these goals are multichip modules (MCM) and optoelectronic interconnects. MCMs allow the use of mixed semiconductor technologies in a single module. Optical MCM designs have been proposed which incorporate chip-to-chip optical interconnects and electro-optic waveguides. These technologies and their associated material needs will be reviewed.

Herbert J. Neuhaus is Product Development Manager for Multichip Module Materials at Amoco Chemical Company in Naperville, IL. In 1980 he received his BS in Physics from Clemson University, and the PhD in Physics from the Massachusetts Institute of Technology in 1989 where his research focused on electrical conduction mechanisms in polyimides.

Meeting Location: The Motorola Center, Algonquin Rd (Route 62), Schaumburg, IL

Time: 7:00 p.m. (Coffee and rolls will be available)

Register by calling the IEEE Office by November 12, (312) 236-4333, Reservations are required.
Your attendance will be confirmed.

See a recent issue of SCANFAX for MOTOROLA map.

SB 674	CULLERTON - Creates the Private Detective, Private Alarm, and Private Security Act of 1993 and repeals the existing act; reinstates most of the provisions of the old act.	WATCH	RULES COMM.	includes the planning, analysis, etc. of piping systems and appurtenances, soil classification, hazardous waste, mitigation and control, industrial and hygiene systems; other requirements.	SUPPORT	GOVERNOR SIGNED	SB 1047	STERN ET AL - Amends the Illinois Governmental Ethics Act; the G. A. Compensation Act; the Lobbyist Registration Act; the Illinois Purchasing Act and the Illinois Income Tax Act; creates and transfers powers to an Ethics Commission; creates a code of conduct for legislators, State officials and State employees; other provisions.	WATCH	RULES COMM.	the contractor shall disclose all subcontractors (and amount to be paid to them) in the contract, and shall amend the contract if a subcontractor is hired later.	WATCH	RULES COMM.		
SB 675	CULLERTON - Identical to SB 674 - Appears to be a duplicate bill.	WATCH	RULES COMM.	SB 973	KLEMM - Amends the Structural Work Act; provides that a cause of action under the Act for damages for an injury to the person shall be commenced within two years after the cause of action accrued.	SUPPORT	DEFEATED	SB 1102	SEVERNS - Amends State Finance Act; requires a cost effectiveness analysis to be conducted by the Bureau of the Budget and competitive bid of all certificates of participation issued after November 14, 1988 before the issuance.	WATCH	RULES COMM.	HB 103	NOVAK ET AL - Amends the Purchasing Act makes it unlawful for persons, firms, etc., that make a campaign contribution having a value of \$1,000 or more to any member of the General Assembly or constitutional officer (or corresponding candidates) to have or buy any contract in whole or in part by the payment of appropriated funds; defines such.	WATCH	RULES COMM.
SB 771	McCRACKEN - Creates the Uniform Unincorporated Nonprofit Association Act; provides that a nonprofit association is a legal entity separate from its members for purposes of contract and tort liability; other provisions.	SUPPORT	JUDICIARY COMM.	SB 988	FAWELL - Creates the Pro Bono Professional Service Immunity Act; provides that the liability of physicians who provide medical treatment diagnoses, or advice without compensation and of attorneys who provide legal advice or assistance without compensation, is limited to liability only for willful or wanton misconduct; other provisions.	SUPPORT	RULES COMM.	SB 1105	DEANGELIS-DELEO - Omnibus bill increases various fees.	WATCH	GOVERNOR SIGNED	HB 117	WENNLUND - Amends Prevailing Wage Act; provides that Act applies whenever a public utility company contracts with an outside contractor on a construction project.	WATCH	RULES COMM.
SB 785	STERN - Amends the Election Code; limits contributions to candidates for public office; limits individual contributions to any candidate to \$1,000; limits contributions to a political committee, other than a candidate's authorized political committee, to \$5,000.	SUPPORT	RULES COMM.	SB 989	DEMUZIO - Amends the General Highway Provisions Article of the Highway Code; clarifies the definitions of highways, streets and roads.	WATCH	RULES COMM.	SB 1106	DUDYCYZ ET AL - Amends Purchasing Act; provides procedures for State agency contracts for professional and artistic services and for real property purchases and leases.	WATCH	RULES COMM.	HB 140	SCHOENBERG - Amends State Comptroller Act, and certain related acts; provides that it is unlawful for partnerships and business entities to have or buy any state contract if any judge, legislator, U of I Trustees Board or person holding an elected office in the executive branch of the State is a partner, officer, etc.; bans comptroller from issuing a warrant for any amount vouchered for payment under any State contract awarded in violation of that public policy.	OPPOSE	RULES COMM.
SB 803	RAUSCHENBERGER ET AL - Creates the Electrician Licensing Act; provides for regulation of electricians and electrical contractors; establishes fines for violations of the Act; provides for concurrence exercise by home rule units; amends the Regulatory Agency Sunset Act to repeal this Act December 31, 2003.	WATCH	INS. PENS. & LIC. ACT. COMM.	SB 1019	SEVERNS - Amends the Illinois Purchasing Act; decreases to \$10,000 the maximum amount of contracts exempt from competitive selection procedures; increases to \$250,000 the minimum amount for which separate and independent specifications and selection for certain subdivisions of work are required.	OPPOSE	RULES COMM.	SJR 24	TOPINKA ET AL - Proposes that a Blue Ribbon Auditor General Committee be established to evaluate the Illinois Purchasing Act before and with revisions contained in PA 87-860.	WATCH	ADOPTED	HB 150	SKINNER - Amends the State Comptroller Act, the Illinois State Auditing Act and the Illinois Purchasing Act; requires that State agency contracts for professional or artistic skills exempt from competitive bidding contain certain information, provide for evaluation upon completion, and be filed with State Comptroller; other requirements.	WATCH	INTERIM STUDY
SB 817	DUDYCYZ - Amends the Election Code; requires an individual who makes contributions to a political committee during the specified reporting period in excess of \$1,000 to identify his or her occupation and employer.	SUPPORT	RULES COMM.	SB 1044	STERN ET AL - Creates the Executive Branch Ethics Law to be administered by a Board of Ethics consisting of three members appointed by the Governor; requires the filing of Statements of Economic Interests; amends the Lobbyist Registration Act; other provisions.	WATCH	RULES COMM.	HB 23	RYDER ET AL - Appropriates \$1 to the Board of Higher Education for distribution as engineering equipment grants.	WATCH	RULES COMM.	HB 185	HICKS - Amends Use Tax and Retailers' Occupation Tax Act; makes technical changes in Chapter 120.	WATCH	INTERIM STUDY
SB 874	CARROLL ET AL - Appropriates \$2 to the Dept of Professional Regulation for FY '94.	WATCH	RULES COMM.	SB 1045	DEMUZIO - Amends the State Comptroller Act, the Illinois State Auditing Act and the Illinois Purchasing Act; requires that State agency contracts for professional or artistic skills exempt from competitive bidding contain certain information, provide for evaluation upon completion, and be filed with the State Comptroller; other provisions.	WATCH	RULES COMM.	HB 31	PARKE - Repeals the Structural Work Act.	SUPPORT	INTERIM STUDY	HB 188	EDLEY ET AL - Amends Board of Higher Education Act; requires appropriate bills for the Board and public higher education institutions to set forth program data by separate line item for each appropriation, to set forth OCE items under six specified categories, and to identify the institution, campus and affected Chancellor's or President's office.	WATCH	RULES COMM.
SB 884	CARROLL ET AL - Appropriates \$2 to the Dept. of Transportation for FY '94.	WATCH	RULES COMM.	SB 1046	CARROLL - Amends the Illinois Governmental Ethics Act; prohibits Executive Branch employees from certain activities after leaving office or employment, and representation or participation at any time in State contracts in which the person exercised contract management authority for the State; violation is a Class A misdemeanor.	WATCH	RULES COMM.	HB 67	SHEEHY - Amends the Purchasing Act; eliminates the exemption from competitive selection procedures of services that require professional and artistic skills.	WATCH	RULES COMM.	HB 192	SCHOENBERG - Amends Purchasing Act; bans a state agency from entering into contracts with individuals or entities that are delinquent in the payment of taxes administered by the Revenue Department.	WATCH	RULES COMM.
SB 900	McCRACKEN ET AL - Amends the Illinois Governmental Ethics Act, the Lobbyist Registration Act and the State Finance Act; redefines lobbying to include attempting to influence legislative, executive and administrative actions; changes lobbying expenditure report deadlines and content and imposes late-filing fee; other provisions.	WATCH	GOVERNOR SIGNED					HB 100	SHEEHY - Amends Purchasing Act; provides that if individual orders for purchases of commodities and equipment are less than \$5,000 (now \$25,000) the Act's competitive selection procedure need not be followed; makes same change (\$5,000 from \$25,000) regarding contracts for repairs, maintenance, or any other services not specifically exempt from Act.	WATCH	RULES COMM.				
SB 966	O'MALLEY - Amends the Professional Engineering Practice Act; includes geotechnical engineering, geology and hydrogeology in definition of practice that							HB 102	GRANBERG ET AL - Amends Purchasing Act; provides that, when a contractor enters into a contract with a State agency to provide professional or artistic services involving a spending of more than \$5,000 in a fiscal year,						

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HB 300	NOVAK ET AL - Amends the Environmental Protection Act to make a technical change. (Bill has been amended to deal with Leaking Underground Storage Tank Program)	SUPPORT	GOVERNOR SIGNED	HB 556	A. MOORE - Amends Road Worker Safety Act; provides that provisions of this Act are applicable to utility and other construction projects located on bridge or highway rights-of-way.	OPPOSE	RULES COMM.	HB 750	MURPHY - Appropriates \$1 to the Board of Higher Education for grants and awards for FY '94.	WATCH	RULES COMM.	HB 1108	RONEN ET AL - Amends the Illinois Purchasing Act; requires bidders and contractors to certify that they provide health benefits to their employees in order to be eligible for state contracts.	OPPOSE	DEFEATED
HB 347	DUNN - Amends Board of Higher Education Act; directs Board to establish a pilot program of matching grants to colleges for inventors in residence; limits grant to 50% of the stipend paid, not exceeding \$25,000 a year per college.	WATCH	RULES COMM.	HB 660	SCHOENBERG - Creates the Performance-Based Budgeting Act.	WATCH	RULES COMM.	HB 791	EDLET ET AL - Creates the Dedicated Fund Note Act; requires preparation of an explanatory statement for each legislative measure that establishes or re-establishes the dedication of a revenue source to a special state fund or account.	WATCH	RULES COMM.	HB 1123	MORROW - Amends Motor Fuel Tax Law; provides that the rate of tax on all motor fuel shall be 7% of the price per gallon used.	OPPOSE	INTERIM STUDY
HB 379	MOSELEY - Amends Election Code; bans a person from making contributions of over \$2,500 in a semi-annual reporting period to one or more political committees of an executive officer with whom the person has done business during that reporting period in which contributions are being made or in any of the preceding three semi-annual reporting periods; other provisions.	WATCH	RULES COMM.	HB 662	BALANOFF - Amends Radiation Protection Act and the Electric Supplier Act; provides for a 3-year moratorium on the construction of electric transmission lines that operate at greater than 60 kilovolts; requires Commerce Commission and Department of Nuclear Safety to conduct study on electromagnetic radiation and associated health issues.	WATCH	INTERIM STUDY	HB 799	DAVIS - New Act; the Privatization Regulation Act; provides that a State agency may enter into a contract with a private entity (rather than having the work done by state workers) only if specified conditions are met.	WATCH	RULES COMM.	HB 1125	M. MURPHY - Amends Retailers Occupation Tax Act; provides that sales of engineering and installation or maintenance of voice, data, or video systems does not constitute engaging in a business selling tangible personal property at retail.	SUPPORT	RULES COMM.
HB 382	HOFFMAN - New Act; the Second Lowest Bidders' Protection Act; provides that such bidders on a public works project, and any person that entered into a contract with the second lowest bidder, who suffers damages resulting from a bid for such a project not being accepted because the successful bidder violated certain labor acts, may bring an action for damages.	WATCH	RULES COMM.	HB 665	BALANOFF - Amends EPA Act; makes technical change in section dealing with underground storage tanks.	WATCH	INTERIM STUDY	HB 810	GIOLITTO - Amends the Interior Design Profession Title Act; provides that persons may be issued a certificate under the act who have seven, rather than eight, years of experience.	WATCH	RULES COMM.	HB 1131	HANNIG - Amends Purchasing Act; prohibits a person who has made a contribution of \$500 or more to a candidate for a Constitutional office from receiving a no-bid contract with that Constitutional officer.	WATCH	RULES COMM.
HB 412	STECZO - Creates the Private Detective, Private Alarm, and Private Security Act of 1993; repeals Act of 1983; reinstates most of the provisions of old Act; grants Department of Professional Regulation investigators peace officer status; sets minimum insurance limits; no longer allows a private detective to use work experience as an investigator for an attorney in order to meet the minimum work requirements for licensure; other provisions.	WATCH	RULES COMM.	HB 681	McGUIRE - New Act; the Heating & Air Conditioning Contractors License Law; requires a license for such work; creates examiners for such work, administered by the Public Health Department; preempts home rule.	WATCH	RULES COMM.	HB 812	HOMER - Amends the Election Code; limits individual contributions to any candidate for public office; limits individual contributions to any candidate to \$1,000; limits contributions to a political committee, other than a candidate's authorized political committee, to \$5,000.	SUPPORT	INTERIM STUDY	HB 1162	KASZAK - Amends Code of Civil Procedure; provides that when an underlying action for recovery is not filed, a party seeking contribution from another must begin the action for contribution within two years of making the payment for which contribution is sought; other provisions.	SUPPORT	GOVERNOR AMENDATORY VETO
HB 421	GIGLIO - Creates the Subcontractors' Employees Benefits Act; requires all insurance, pension and retirement benefits accrued by an individual as a result of his or her work on a construction project to be paid by the general contractor instead of the subcontractor if the subcontractor fails to pay the benefits.	OPPOSE	RULES COMM.	HB 682	WELLER ET AL - Amends Impounding & Disposition of Stray Animals Act; eliminates state licensed institutions as recipients of impounded animals; amends WIC Vendor Management Act; requires Public Health Department to review (rather than investigate) alleged program violations; Amends Asbestos Abatement Act; eliminates required use of state funds for abatement of asbestos in schools; permits school districts to levy an asbestos abatement tax; other provisions regarding health services and product transactions.	WATCH	INTERIM STUDY	HB 863	EDLEY ET AL - Appropriates \$1 for fiscal 1994 expenses of the Board of Higher Education.	WATCH	RULES COMM.	HB 1228	CURRAN ET AL - Amends the Illinois Purchasing Act; makes a style change.	WATCH	RULES COMM.
HB 467	PRUSSING - New Act; The Geologist Registration Act; administered by the Illinois Department of Professional Regulation; provides for certain exemptions; creates Board of Registration for Geologists to oversee; sets guidelines and licensing procedures.	OPPOSE	GOVERNOR VETOED	HB 693	SHEEHY - Amends Civil Administrative Code; allows Department of Professional Regulation to deny any person or entity a license, certificate, etc. if such is delinquent on tax payments administered by the Revenue Department; defines a person or entity as "not delinquent" if they've entered into an agreement with the Department for delinquent tax payments; other requirements.	SUPPORT	RULES COMM.	HB 891	HANNIG ET AL - Appropriates \$1 for fiscal 1994 expenses of the Department of Energy and Natural Resources.	WATCH	INTERIM STUDY	HB 1243	DANIELS ET AL - Appropriates total of \$2,827,877,500 for fiscal 1994 expenses of various government service departments and agencies. (BOB, CDB, CMS, CSC, Lottery, ELRB, Ill. LRB, PTAB, Ret. Systems, Revenue.)	WATCH	RULES COMM.
				HB 716	A. MOORE - Amends the Road Worker Safety Act; provides that construction on highway rights-of-way is under the jurisdiction of the Act; authorizes any law enforcement agency to enforce the Act (now only the Department of Labor).	OPPOSE	INTERIM STUDY	HB 943	L. JONES ET AL - Amends Gasoline Storage Act; requires persons who test, install, repair, replace or remove underground storage tanks to provide a security bond of at least \$25,000 naming the State Fire Marshall as obligee.	OPPOSE	INTERIM STUDY	HB 1245	DANIELS ET AL - Appropriates total of \$126,465,500 for fiscal 1994 expenses of various regulatory departments and agencies. (LCC, B&T, DFI, DHR, HRC, ICC RAC. BD. IND. COM., INS, DPR, PUB. COUNSEL, S&RF.)	WATCH	RULES COMM.
								HB 996	LEITCH - Amends EPA Act; provides that a person shall not submit a request for payment from the Underground Storage Tank Fund more often than once every 30 days nor sooner than 30 days after the eligibility determination.	OPPOSE	RULES COMM.	HB 1247	DANIELS ET AL - Appropriates total of \$5,396,524,319 for fiscal 1994 expenses of the Department of Transportation.	WATCH	RULES COMM.
								HB 997	LEITCH - Amends EPA Act; provides that proof of payment for remedial action for a leaking underground tank shall be cancelled checks or, in the case of bankruptcy, a senior lien secured by real estate.	OPPOSE	RULES COMM.	HB 1430	BRUNSVOLD - Makes technical changes in School Code provisions regarding school building codes.	WATCH	RULES COMM.

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HB 1521 SAVIANO - Creates the Private Detective, Private Alarm, and Private Security Act of 1993 and repeals the existing Act; reinstates most of the provisions of old Act; gives investigators of Dept. of Professional Regulation peace officer status; other provisions. INTERIM STUDY WATCH

HB 1532 STECZO - Creates the Industrial Hygiene Licensing Act administered by the Dept. of Professional Regulation. WATCH GOVERNOR SIGNED

HB 1560 DEERING - Amends Insurance Code; provides that with respect to employers correctly classified within the construction industry, the amount charged for workers compensation and employers liability insurance shall be based upon hours worked by employees in specific job categories or classifications and not the wages or salaries paid to the employees. RULES COMM. WATCH

HB 1745 ROTELLO - Amends Lobbyist Registration Act; requires a lobbyist to disclose political contributions to members of a legislative committee before testifying before the committee. RULES COMM. WATCH

HB 1870 HANNIG ET AL - Appropriates \$2 to the Dept. of Professional Regulation for FY '94. WATCH

HB 1875 Appropriates \$2 to the Dept. of Transportation for FY '94. WATCH

HB 1876 SALTSMAN ET AL - Appropriates \$2 to the Capital Development Board for FY '94. WATCH

HB 1894 PRUSSING - Creates the Service Tax Act; imposes tax of 6.25% on the provision of services listed in the Act, with proceeds going into a special Service Tax Fund to be used to fund hospital, long-term and developmentally disabled care programs. OPPOSE

HB 1915 RYDER - Amends Professional and Survey Act; includes within the practice of land surveying referencing the position of monuments for determining boundary lines, geographical information systems, land information system datums, and spatial location designations. SUPPORT

HB 1933 GIGLIO ET AL - Amends Architecture Practice Act; Professional Engineering Practice Act; Professional Land Surveyor Act, and Structural Engineering Licensing Act; allows each departmental board to appoint a Complaint Committee to recommend disposition of cases; fines; other provisions. GOVERNOR SIGNED

HB 1934 GIGLIO - Amends Architecture Practice Act; includes limited liability companies and professional service corporations under the practice of architecture. RULES COMM. WATCH

HB 2174 BLACK - Creates the General Professions Decalcified Fund; amends numerous acts to provide for deposit of all fees and fines from certain professions into the General (currently, all fees and fines are deposited into the General Revenue Fund); moneys collected to be used by the Professional Regulation Department for its ordinary and contingent expenses. INTERIM STUDY SUPPORT

HB 2178 BIGGERT ET AL - Amends Lobbyist Registration Act; requires such registration of persons seeking to influence local governments, school districts and the administrative and executive actions of State Executive Branch agencies; changes periods for reporting lobbyist expenses; bans a person from receiving over \$500 per year from legislators for testifying before legislative committees; other related changes. WATCH INTERIM STUDY

HB 2237 ROSKAM - Amends various professional licensing acts to clarify that if the Boards fail to make their findings within 60 days of the hearing officer's report, the Director may (rather than shall) issue an order based on the hearing officer's report. OPPOSE

HB 2238 WENNLUND - Amends various professional licensing acts; allows the Dept. of Professional Regulation to assess a civil penalty not to exceed \$5,000 for each offense of practicing, attempting to practice, or holding oneself out to practice without being licensed; grants the Department the power to investigate any unlicensed activity. WATCH

HB 2279 SKINNER - Amends Highway Code; allows road districts to accumulate up to 50% of the taxes collected from a subdivision for purposes of road improvements in that subdivision. WATCH

HB 2286 GIORGI - Amends the Illinois Purchasing Act; sets forth criteria for determining whether an entity is a "responsible bidder" for purposes of awarding contracts under the Act; criteria includes maintenance of contracts, benefits and insurance, participation in apprenticeship programs, and remittance of withholding from wages to the Illinois Department of Revenue. RULES COMM. WATCH

HB 2329 LANG - Creates the Asbestos Building Permit Act; establishes minimum state-wide requirements for the issuance of permits for alteration or demolition of certain buildings containing asbestos; other limits and provisions. WATCH

HB 2351 MOSELEY - Amends Counties Code, Municipal Code and Highway Code; provides any contract or work involving more than \$100,000 in Motor Fuel Tax Fund monies allocated to a city, county or road district shall be let according to competitive bidding requirements. RULES COMM. SUPPORT

HB 2376 RYDER - Creates the General Professions Decalcified Fund, composed of fees, fines, etc. collected from professions licensed and regulated by the Dept. of Professional Regulation; provides monies in fund to be used for the Department's ordinary and contingent fiscal year expenses. WATCH INTERIM STUDY

HB 2383 CURRAN - Makes stylistic change in the State Purchasing Act regarding competitive bidding. RULES COMM. WATCH

HB 2384 CURRAN - Makes stylistic change in the State Purchasing Act. INTERIM STUDY WATCH

HB 2435 PARKE - Amends Structural Work Act; provides that a cause of action under the Act for damages for an injury shall be commenced within two years after the cause of action accrued. SUPPORT

IEEE USA HOT LINES

IEEE-USA Office, 1828 L Street, N.W., Suite 1202, Washington, DC 20036-5104, USA (202) 785-0017
IEEE-USA telephone hotline recording: (202) 785-2180
James A. Watson, Editor—Georgia C. Stelluto, Associate Editor

TPC Hosts Symposium on Technology Transfer

IEEE-USA's Technology Policy Council (TPC) hosted a symposium in Washington, D.C., September 22-23, at the Washington Marriott Hotel. With the aim of improving technology transfer among universities, the Federal Government and industry, the symposium's goals were to inform participants about the benefits of industry-government-university cooperation in commercializing new technologies to give participants ideas for getting involved, and to identify ways that IEEE can support and encourage the process.

Symposium speakers included Admiral Richard Truly, former administrator of the National Aeronautics and Space Administration, Dr. Arati Prabakhar, National Institute for Standards and Technology director, and Roger Lewis, director of the Office of Technology Utilization at the U.S. Department of Energy.

Specific discussion items included case studies, various views of the technology transfer process, and government and industry initiatives. Contact the IEEE-USA Office in Washington, D.C., for more information about the symposium.

1993 Salary Survey Now Available

The 1993 IEEE U.S. Membership Salary and Fringe Benefit Survey offers detailed information on salaries and benefits of electrical, electronics, and computer engineers, as well as employment data and demographic and occupational characteristics. Questionnaires were sent to nearly 21,000 randomly selected members and yielded more than 6,000 responses. Averaging 45.1 years, these respondents constitute the oldest sample group ever reported.

The most significant change this survey revealed since the 1991 survey was taken involves unemployment, with involuntary unemployment at the highest rate ever recorded. Only 77 percent of respondents reported full-time employment.

The survey showed that average income since 1991 has risen at a rate slightly faster than inflation for the declining numbers of engineers working full time in their own field. The survey also noted a higher percentage of retirees than previously.

The 1993 survey report is available to members for \$74.95 and to nonmembers for \$119.95, plus \$6 postage and handling. To order, call IEEE's Service Center at (800) 678-IEEE and ask for IEEE Catalog No. UH0194-1.

Careers Conference To Explore Engineering Leadership

IEEE-USA will hold its eighth biennial Careers Conference on April 14-15, 1994, in Ft. Worth, Texas. With the theme, "Every Engineer a Leader: Learning and

Leading in Today's Organizations," the Conference will explore such topics as engineering leadership, engineers and global competitiveness, creating a learning organization in the engineering community, and organizational practices that help build technical leaders.

Engineering and human resource managers, academics, engineers, scientists, and other technical professionals are encouraged to attend this two-day conference to share and gain insights into engineering careers, management, team-building, and leadership issues. To receive additional information or to register please contact the IEEE-USA Office in Washington, D.C.

USAB Approves Position Statements

IEEE's United States Activities Board has approved these position statements. Copies are available from the IEEE-USA Office in Washington, D.C.

● **Defense Conversion**—IEEE-USA's Defense R&D Policy Committee urges the enactment of a comprehensive, economically sustainable, national strategy for defense conversion that will minimize the detrimental impacts of defense cuts and commercialize continuing U.S. investment in defense R&D. IEEE-USA also supports strategic goals for building a strong national industrial base and economic capability suited to new security challenges.

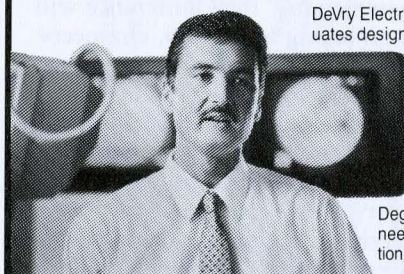
● **Regaining Strength In Technology Commercialization**—IEEE-USA's Engineering R&D Policy Committee outlines Federal policies and programs needed to direct engineering R&D toward the efficient production of innovative civilian products and to encourage U.S. industry to commercialize the results of R&D effectively. The Committee recommends that the structure of technical activities within the Department of Commerce providing a coordinated Federal technology commercialization program be strengthened. In addition, IEEE-USA encourages industry investment in longer-range strategic and high-quality manufacturing undertakings, maximizing the utilization of government and academic technology resources and strengthening the U.S. technology infrastructure.

Further information about IEEE-USA, engineering career and technology policy issues, and copies of testimony, IEEE-USA Position Statements, and complimentary publications are available from the IEEE-USA Office. Write or phone IEEE-USA, 1828 L Street, N.W., Suite 1202, Washington, DC 20036-5104; (202) 785-0017 (office); (202) 785-0835 (fax); ieeeusa@ieee.org (electronic mail via Internet).

IEEE-USA Hot Lines is designed to provide IEEE Sections and Societies with up-to-date information on United States Activities. IEEE publication editors who receive IEEE-USA Hot Lines can use entirely or excerpt from the contents. We invite your comments on format, content, and lead time.

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The Power Engineering Society of IEEE presents



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McCormick Place - Chicago, Illinois

For registration info., call 1-800-PES-IEEE (1-800-737-4333).
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(Most volunteers will be free to see the show part of the day.)

Look in SCANFAX early next year for more details.

EXTRA - EXTRA - EXTRA- EXTRA - EXTRA- EXTRA- EXTRA - EXTRA

Our Chicago Section held their Centennial Dinner on Saturday evening, October 9th, 1993 at The Museum of Science and Industry where the electric light was first used on a wide basis for the 1893 exhibit. Almost 400 members and guests attended. The guests and speakers included Merrill Buckley (Immediate Past IEEE President), John Powers (IEEE's General Manager), Charles Alexander (IEEE VP heading the US Activities Board), Jon Van (Chicago Tribune Technology Writer), and Susan Eleuterio (the former curator of the museum's Building MSI Exhibit). Mr. Van received a special USAB award and our Section Chair Len Cohen accepted a plaque on behalf of the Chicago Section in honor of our centennial celebration.

The attendees also had the opportunity to view several museum exhibits privately, including the newly installed part to commemorate the 1893 Exhibit. Our Centennial Committee exhibited a large number of historic photographs lent by several local companies and organizations.

We are very grateful to our Centennial Committee, particularly the Co-Chairs Dennis Lamont and George Thomas. Please remember that this Committee is still preparing a "Centennial Book" to be published later this year. This book will be filled with our personal written contributions and memories (e.g., photos) of interesting Chicago Section events and publications; in addition to a series of advertisements placed by our loyal supporters in local industry and within our Section. So please continue demonstrating your interest - and tangible support - in this book to celebrate our first 100 years as the first Section chartered by the American Institute of Electrical Engineers (AIEE), one of the two organizations forming the IEEE during the 1960s. So please call our IEEE Office at (312) 236-4333 for further information about these advertisements.

Prepared by Joe Feitler, SCANFAX Associate Editor

IEEE'S CHICAGO CHAPTERS OF THE COMPUTER, THE ENGINEERING MANAGEMENT, AND THE PROFESSIONAL COMMUNICATIONS SOCIETIES INVITE YOU TO THEIR JOINT TOUR AND MEETING

DATE and TIME: Wednesday, November. 17, 1993 at 7:00 PM
TOPIC: Chicago's National Weather Service Facilities
SPEAKER: Jim Allsop, Warning Coordination Meteorologist
LOCATION: Southwest Corner of Lewis University Campus
Route 53, Romeoville, IL

- • FOR THIS TOUR RESERVATIONS WITH OUR OFFICE
- • (AT 312.236.IEEE) ARE REQUIRED

Please contact Joe Feitler at 708.505.9100, X277 if you need any alternate or more detailed travel directions

Directions from North and East...

Take I-355 Tollway going south until you reach I-55 (Stevenson); take I-55 south a short distance to Romeoville Exit 269 (Joliet Road); continue south on Joliet Road (IL Route 53) for 8 miles; then Lewis University will be on your right (west of Route 53); enter Campus (going west) toward large building (library); then turn left (south) and follow this road as it turns right (west); continue west (past the soccer field) to NWS building with its radar tower; please park in front of of this building.

About Our Speaker

Mr. Allsop (a native of Hinsdale) has a BS degree in Meteorology from Florida State University. He has been with NWS for 14 years: 2 years in Los Angeles, 10 years in Indianapolis, and 2 years in Chicago.

Attendance Policy

Due to NWS's space limitations we can only handle 30 (thirty) attendees for this event. Our office will accept a few standby reservations. Therefore please don't be a no-show, and tell us if your plans change early enough to avoid disappointing some would-be visitors. Please recognize that our only other choice was to omit this particular event; our last visit to the old office several years ago was very stimulating.

Chicago's National Weather Service Facilities

The National Weather Service (NWS) office at Lewis University moved there several years ago from cramped quarter just north of the military facilities at O'Hare Airport. Our speaker will explain the current technique for preparing weather forecasts and severe weather warnings which are based on inputs from the Doppler Radar, satellite images, and computer generated data from Washington, DC. Probably you will recognize their weather maps as the source material for those shown by our local TV stations.

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POWER ENGINEERING SOCIETY



SPEAKERS: Mr. Gene Ransom
Project Manager
Commonwealth Edison Company

Mr. Robert Morton
General Engineer
Commonwealth Edison Company

TOPIC: The 1992 Chicago Flood

ABSTRACT: The Chicago Flood caused numerous outages in Chicago's Loop and affected many Chicago Loop businesses, but perhaps none with more far ranging impact than the Chicago Board of Trade. Unable to open its trading floors, the Board of Trade as well as the world market, were losing money at an alarming rate. It was essential that power be restored to their trading floors as soon as possible. Therefore, Commonwealth Edison allocated all available personnel and resources to restore power to all affected areas.

BACKGROUND: Mr. Ransom has a BS degree in Electrical Engineering. He has been with Commonwealth Edison Company for 21 years and has been involved in engineering, planning and construction of transmission, and distribution power systems. Mr. Ransom was the supervising Engineer of Commonwealth Edison's High-Rise Electrical Design Group at the time of the flood.

Mr. Morton has a BS degree in Electrical Engineering. He has been with Commonwealth Edison since 1988 and has been involved in the engineering, planning, and distribution power systems. During the flood, Mr. Morton was in the Distribution Planning Group where he was responsible for managing the load growth for the Loop, as well as, the central section of the city.

PLACE: Chicago Bar Association
321 S. Plymouth Court

DATE: November 10, 1993

TIME: 11:30 Social 12:00 Lunch 12:30 Presentation

Reservation must be made by noon, Monday, November 8, 1993 by calling 312-236-4333. Please leave name(s) and company name. Lunch is \$7.50.

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JOINT MEETING

**POWER ELECTRONICS and
INDUSTRIAL APPLICATIONS/ INDUSTRIAL ELECTRONICS CHAPTERS**

A New Switched Reluctance Starter/Generator

**Caio A. Ferreira, Principal Engineer
Applied Research, Sundstrand Aerospace**

Switched reluctance, variable speed drives offer the advantages of simple machines capable of operating at very high speeds driven from simple converters. A new switched reluctance starter/generator (SR S/G) is being developed for an aircraft engine application. The system consists of a SR machine directly coupled to a gas turbine engine, an inverter/converter unit, and an electronic controller. As a generator the system is rated at 30KW, 270 V DC, **52,000 RPM** maximum operating speed. The system also provides 17 HP peak power to start the engine. The system is designed to meet unique requirements such as power quality per MIL-STD-740E, 30% (9KW) step loads, and -51 to +121 degrees C temperature range. The presentation discusses the design and analysis of the system, the test results, and some of the lessons learned during testing. Photographs of the hardware will also be presented.

Mr. Ferreira is a senior member of the IEEE and has a BSEE from the University of Missouri-Columbia and a MS in Systems Engineering from Case Western Reserve. His industrial experience includes work at both General Electric and Sundstrand and encompasses a wide range of solid state power conversion systems, motor drives, electrical generating systems, and magnetic bearings. He holds two patents and has presented technical papers at IAS, APEC, and SAE conferences. Mr. Ferreira is Section Chairman of the IEEE Rock River Valley Section and is also chairman of the IAS Chapter which has been chosen to receive the IEEE/IAS Outstanding Small Chapter Award for 1993.

Meeting Information December 1 -- Motorola Schaumburg Campus, corner of Algonquin and Meacham roads (directions below) -- Social hour (coffee and donuts) 6:00 to 7:00 PM -- Meeting 7:00 - 8:00 PM - Dinner may be purchased at low cost in cafeteria starting at 5:30 PM if desired. -- Please register by calling the IEEE Message Center by noon, November 29 - (312) 236-4333. -- Call George Studtmann with any questions - (708) 392-7189.

Directions Use westmost gate labelled "A GATE, VISITORS" on Algonquin road. Push button at entry gate and tell guard "IEEE meeting in building 1301". Park in first lot on your left and enter door 13 (under MOTOROLA sign) of the 6 story building adjacent to parking lot. A guide will be at the reception desk in the lobby.