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C A L E N D A R O F E V E N T S

For reservations call the IEEE office at 236-4609
(unless otherwise indicated)

COPY DEADLINE: FIRST WEEK OF MONTH PRIOR TO PUBN.

NOV.	4	"IEEE & PES"	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm.2,8th Fl.	Social 11:30 AM Lunch 12:00 PM Meeting 12:30 PM
	7	Seminar - "Motor Design & Application"	Power Engrng. Soc.	Fermi Natl. Lab. Kirk & Pine Rds. Batavia	All Day beginning at 8:00 AM
	9	"Use of Electro- magnetic Energy in Cancer Therapy"	Antennas & Prop./ Microwave Theory & Techniques Soc.	Louis Restaurant 351 E. Lake St. Addison	Social 5:30 PM Dinner 6:30 PM Meeting 7:30 PM
	10	Monthly Meeting - ALL WELCOME	IEEE Executive Cte. (In conjunction with MIDCON/81)	Hyatt Regency O'Hare River Rd. at Kennedy Expy., Rosemont	Meeting 5:00 PM
	10-12	MIDCON/81 Electronic Show/Convention	IEEE	O'Hare Expo. Ctr. & Hyatt Regency O'Hare Rosemont	(Dale Litherland 213: 772-2965)
	11	"Advanced Control Room Concepts"	Indus.Appls.Soc. & Industl. Electronic Control Instru. Soc.	Nielsen's Village 7330 W. North Ave. Elmwood Park	Social 5:30 PM Dinner 6:15 PM Meeting 7:15 PM
	11	"Burn-in & Screen- ing of Electrical Components"	Reliability Soc. (Call Hugh Edfors 369-8038)	Branding Iron Rest. 3131 Finley Rd. Downers Grove	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
	17	"Cathode Ray Tubes"	Northwest Sub. (j/w Electron Devices Soc.)	Mr. Peters Banquets 1018 Mt.Prospect Plaza Rand & Central Rds.	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
	18	To be announced	Electron Devices Soc.	To be announced	
	25	"Fire Protection & Detection"	Fox Valley Sub.	Wilton Manor St.Chas.Rd. & Main St. Wheaton	Social 6:00 PM Dinner 7:00 PM Meeting 8:00 PM
DEC.	5	Seminar - "Basic Project Management"	IAS/IECI (Call John Anich 269-6012)	Fermi Natl. Lab. Kirk & Pine Rds. Batavia	Regis. 8:00 AM
	8	Monthly Meeting - ALL WELCOME	IEEE Executive Cte.	Brown & Root Offices 701 E. 22nd St. Lombard	Meeting 7:30 PM
	9	"Construction of TARP"	Power Engrng. Soc.	Carson Pirie Scott Wabash & Monroe Sts. Highland Rm.2,8th Fl.	Social 11:30 AM Lunch 12:00 PM Meeting 12:30 PM
	25	Christmas Day			

GET INVOLVED!

The positions of Program and Arrangements Chairmen for the Industry Applications/Industrial Electronics & Control Instrumentation Society are open. Anyone interested in either of these positions may contact IAS/IECI Chairman, John Anich at 269-6012.

MESSAGE FROM THE CHAIRMAN

We have now moved into a new program year for the Chicago Section. As you will note from the October issue of Scanfax, there are many interesting meetings already scheduled.

At a glance, it would appear the Section activities are flourishing. This could not be further from the truth. With close to 5,000 members in the Section, only a fraction are active.

One of the most valuable benefits of the IEEE is the local societies activities. The societies offer the members a means of meeting their fellow engineers in related fields on a technical basis. Of the 30 societies of the IEEE, only 13 are active in Chicago.

We would like to hear from you if you are interested in getting involved with one of the active societies or are interested in helping activate a new society. Contact any one of the Section officers and we will help get you started.

We want the Chicago Section to be a service to its members. Please help us.



Dennis W. Lamont, Chairman
IEEE Chicago Section

NATIONAL LECTURER TO SPEAK ON NOVEMBER 9

The Antennas and Propagation/Microwave Theory and Techniques Society will host Dr. John Strohbehn of Thayer School of Engineering, Dartmouth College and IEEE/AP-S National Lecturer.

Dr. Strohbehn will speak on "The Use of Electromagnetic Energy in Cancer Therapy." The talk will concentrate on the rationale for using heat to treat cancer and on the various methods of heating cancer tissue including rf resistive and inductive heating, external microwave applicators and ultrasound.

The talk will conclude with a discussion of an array of miniature microwave antennas developed at Dartmouth College which are inserted directly into the tumor through hypodermic needles. These small antennas have applications in heating both superficial and deep-seated tumors including brain tumors. See Calendar of Events for meeting location and time.

"ADVANCED CONTROL ROOM CONCEPTS" SUBJECT AT IAS MEETING

Computer based data acquisition and process control systems are currently being included in the design of new fossil generating stations to perform such tasks as automated turbine startup and data logging of critical plant operating parameters. Speaker David Egelston will discuss the latest trends in the design of these systems, focusing on operator-system interface, such as the use of CRT displays and terminal keyboards in the monitoring and control of plant process systems. Meeting date is November 11.

Mr. Egelston is an IEEE member and currently a Senior Applications Engineer in the Marketing Department of Westinghouse Industrial Systems Division in Pittsburgh. Prior to his current position, he was involved with software development (SCADA systems, process control, managing interface design) and project engineering at Westinghouse. Mr. Egelston received a BS degree in engineering from Harvey Mudd College and an MSEE from Carnegie-Mellon University. Deadline for reservations is November 9.

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Professional Activity

UPDATE

ILLINOIS ENGINEERING COUNCIL REPRESENTS MANY GROUPS

The Chicago Section is a member of the Illinois Engineering Council. Through this organization we are able to unite our voices with the major engineering societies; to promote legislation to benefit the IEEE membership and the engineering profession as a whole. We reprint the following article giving the background and function of the Illinois Engineering Council, courtesy of the Midwest Engineer.

The Illinois Engineering Council was created in 1938 as a federation of the principal engineering societies in Illinois to have one organization that could represent the entire engineering profession in the state.

It seemed desirable to have registration of professional engineers in Illinois as well as registration of structural engineers and land surveyors with a goal of achieving acceptable legislation. As a result of this consolidated effort, the registration of professional engineers in Illinois has been established and maintained on a sound basis.

The basic purpose of the Council is to provide a means of bringing to bear the united effort of all organized segments of the engineering profession on any matters of general interest to the engineering profession and the public welfare.

The Illinois Professional Engineering Act was passed, providing a minimum standard of competence which a professional engineer must meet. Then the Illinois Architectural Act was passed providing for the licensing of architects and regulating the practice of architecture as a profession. In 1915 a similar law was passed regulating the practice of structural engineering.

In the years between 1919 and 1939 the Illinois Society of Engineers made many unsuccessful attempts to pass legislation regulating the practice of professional engineering. Such attempts met with opposition from architects, structural engineers and some of the engineering societies. Finally, realizing that eventually a law would be passed in some form and agreeing that it would be better to have a law that engineers could live with, a number of engineers formed the Illinois Engineering Council and encouraged the membership of most of the eligible engineering societies in the state. With the full cooperation of the member societies, the Council's legislative committee drafted a law which in all important respects was the so-called model law, which with some slight variations was at that time in effect in more than 30 states. The law was passed by the Illinois legislature in 1941 to become effective in 1943.

In a suit that went all the way to the Supreme Court, the law was upheld. One of the significant findings of the Supreme Court was that engineering cannot be defined in general terms. Therefore, in drafting the present Act, which became effective in 1945, the Council made no attempt to define engineering but rather to specify what plans or designs come within the purview of the Act.

The Council continuously studies in detail legislative bills which may affect directly or indirectly the engineering profession. It also initiates legislation such as the present Illinois Professional Engineering Act, and amendments to it, including provisions for engineer-in-training recognition. The Council regularly holds a "hotline" phone contact with the Illinois Society of Professional Engineers in Springfield to discuss pending state legislation affecting engineers.

Another activity of the Council is to make available to governors the names of individuals qualified to serve on the Examining Committees of Land Surveyors and the Structural and Professional Engineering Acts whenever a vacancy occurs. These names are without political significance, and thus these examining bodies cannot be subject to political pressure.

The Chicago Section representatives are: Robert Scheman, Paul Jahn, Norbert Orszula and John Waters, who is also Secretary of the Illinois Engineering Council.

RASTER CRT TECHNOLOGY

The Northwest Subsection, joint with the Electron Devices Society, will have Frederick G. Oess as speaker at their November 17 meeting. Mr. Oess will present a paper dealing with an overview of the state of the art of Raster CRT Technology with emphasis on tube performance. The CRT is understood to mean Cathode Ray Tube rather than terminal. Electron gun structure and design will be addressed, as will resolution and tube performance. The effect of pulsing and pulse shaping will be noted as will bulb geometries, screen optical treatments and safety factors. In this presentation, Mr. Oess will outline the history of CRT Technology and illustrate how it has been influenced by the phenomenal growth of the computer industry.

Mr. Oess is Director of Research and Development at Clinton Electronics Corporation, which is the largest manufacturer of CRT's for terminal use in the world. He has been with Clinton for the past six years. His previous experience includes work on flat tube displays and CRT's at Texas Instruments, storage tube displays at Hughes Aircraft and additional work at Sylvania and Sonotone. Mr. Oess is a member of SID and the IEEE and holds 24 patents.

"AN OUNCE OF PROTECTION ..."

On November 25, the Fox Valley Subsection will feature Tom Hayes, Branch Manager for Grinnell Fire Protection Systems Company, Inc. who will speak on "Fire Protection and Detection." Grinnell is a nationwide company involved in all phases of fire protection systems.

Mr. Hayes will give a brief history of the fire detection field and update the audience on the latest state-of-the-art. He will concentrate on the application of the devices that are currently being used. Currently, he is Chairman of the Fire Detection Institute, a non-profit research institute whose goal is to get accurate data for the application of fire detecting devices. The talk will cover the range of a simple local alarm system to the current high-rise alarm and voice evacuation systems, some of which are microprocessor based.

Mr. Tom Hayes has been on the advisory committee of several major manufacturers. He has been a featured speaker with the National Association of Fire Equipment Distributors, the symposium put on by IIT Research Institute. He is not only familiar with the Codes and the requirements for detection systems, but has first hand application knowledge and design experience with fire detection and protection.

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Tues. — Fri. 12 to 9 p.m.
Sat. 11 a.m. to 5 p.m.