



SCANFAX

*Institute of Electrical and Electronics Engineers
CHICAGO SECTION NEWSLETTER
JANUARY 1997*

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Chicago Section Business Meeting- All welcome
Tuesday January 14, 1997 • 7:15 PM
DeVry DuPage Campus •
1221 N. Swift Road • Addison, IL

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ENGINEERING
IN MEDICINE
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Northwest
Subsection

FDA REGULATION OF MEDICAL DEVICES

Speakers: Mary Spiewak, Patty O'Brien
and Pat Melerski
Abbott Laboratories

Tuesday January 21, 1997

ABOUT THE TOPIC

Designers of any medical device, system, or software need to be cognizant of FDA regulations. The program will begin with a brief overview of in vitro diagnostic devices and the software and hardware development processes.

The presentation will focus on the history of FDA regulation of computer - controlled medical devices, the current domestic regulatory environment, the changing FDA policy, and the process of submitting a premarket notification to the FDA.

ABOUT THE SPEAKERS

The speakers are with Regulatory Affairs for the Diagnostics Division of Abbott Laboratories. Mary Spiewak is Manager of Regulatory Affairs. She has been with Abbott Laboratories for fifteen years, the last five in regulatory affairs supporting computer controlled in vitro medical devices. Pat Melerski is a Senior Regulatory Affairs Specialist. She has been with Abbott for fifteen years and has responsibilities in regulatory affairs supporting software controlled devices. Patty O'Brien is a Senior Regulatory Affairs Specialist supporting instrument and software devices. She has been with Abbott for seven years.

PLACE

Motorola, Schaumburg Campus

TIME

Presentation 7:30 PM

Enter using Gate A off Algonquin Road west of Meacham.....

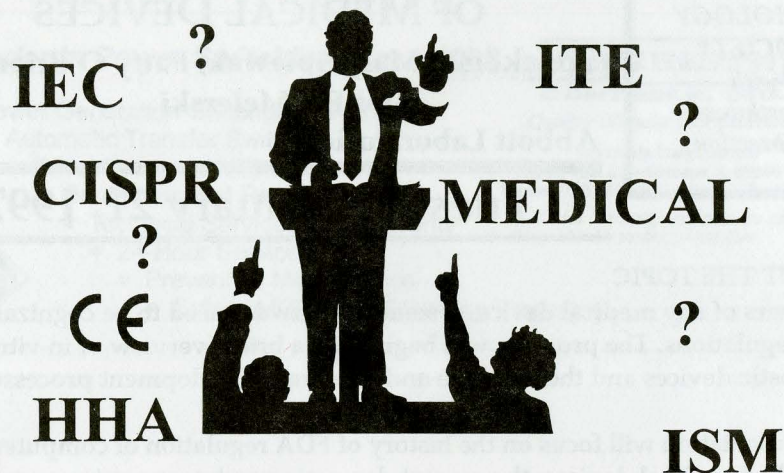
Refreshments will be provided. Preregistration is required. Seating may be tight.

For Reservations and Directions

Please call the IEEE Business Office at (800) 898-IEEE 630 964 4333 no later than 1 PM, Monday January 20...

The EMBS Chair is Judy Gumperline 847 459 9265 - j.gumperline@ieee.org

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MICRO ANECHOIC CELL FOR IMMUNITY

Presented by
Pat Malloy, Amplifier Research
Wednesday January 15 1997

ABOUT OUR TOPIC

Pat Malloy will be talking about a new technology available to EMC engineers which will allow for pre-compliance and compliance testing for radiated immunity and emissions.

ABOUT OUR SPEAKER

Pat Malloy has been a Sales Application Engineer at Amplifier Research since 1989. Previous work experience includes 4 years with the U.S. Navy as a Guided Missile Electronic Technician followed by 7 years in an engineering group at AT&T Bell Labs, and 16 years as a Senior Sales Engineer at Tektronix. Mr. Malloy graduated from Lafayette College in 1972 with a BSEE

PLACE

Lucent Technologies, Bell Labs
2000 N. Naperville Rd.
Naperville, IL
(630 979-2000

TIME

Social 7:15 PM
Presentation 7:30 PM

Refreshments will be served at 7:15 PM.

DIRECTIONS

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

FOR RESERVATIONS

Please call the IEEE Message Center at (800) 898-4333 or 630 964 4333

TECHNICAL CAREER FAIR

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**LOW VOLTAGE
SWITCHGEAR**
Presenter: **Jim Davis**

**Siemens Energy and
Automation, Inc.**

Wednesday, January 29, 1997

ABOUT THE TOPIC

An informative and educational overview of Low Voltage Switchgear with concentration on application and specification.

ABOUT THE SPEAKER.

Jim Davis has a Bachelor of Science degree in Electrical Engineering from North Carolina State University. Jim brings us 11 years of well rounded experience with the Siemens Energy and Automations Group including work as Specification Engineer, Contract Engineer, Export Marketing Engineer, Application and Marketing Engineer, and Supervisor of both Low Voltage and Medium Voltage Switchgear and Motor Control products, and is currently Manager of Marketing and Engineering of the Low Voltage Power Apparatus and Conditioning Division at Siemens.

PLACE

Como Inn
546 N. Milwaukee Ave.
Chicago, IL

TIME

Social 5:30 PM
Dinner 6:00 PM
Presentation 7:00 PM

Dinner cost \$20. Menu choice Chicken or Pasta entree.

DIRECTIONS

The Como Inn is located on Milwaukee Avenue just off the expressway on the East side of 90/94..

FOR RESERVATIONS

Please call the IEEE Business Office at (800) 898-IEEE. 630 964 4333
Please give your name, business affiliation, and choice of entree.

MARK YOUR CALENDARS

Next dinner meeting will be march 26 1997 on Medium Voltage Switchgear

Attendance at IEEE Technical Meetings are acceptable as one PDH
(Professional Development Hour per meeting, where required for CE

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- DSP Algorithm and Hardware Design
- Signal and Image Processing Algorithm Development
- FPGA Design Engineers

Electro-Magnetics Center of Technology (EMCOT) provides visionary advanced technology and engineering leadership in antennas/arrays and electronic subsystems to Sanders and other Lockheed Martin companies for both military and commercial systems. EMCOT is chartered to be the leader in the advanced development of RF microwave and millimeterwave front end subsystem technologies that will impact core business five or more years in the future while providing the expert engineering support and leadership necessary to enable the transition of developed technology. EMCOT embraces the following core technology focus areas: Reconfigurable, Adaptive Front End Architectures, Low Observable and Multifunction Antennas and Arrays, Digital and Analog Receivers and Transmitters, Mixed Signal Electronics, Modeling, Simulation and Measurements. Current opportunities include:

- Antennas/Arrays
- Digital Receiver Design
- RF Receiver Design

Advanced Engineering and Technology Divisions Digital Design Center (DDC) employs the latest technology and a high-level of personnel expertise to meet the needs of its customers cost-effectively. Extensive design experience in ASIC development is layered with value-added product development solutions such as specification modeling in VHDL, built-in self-test (BIST), high-density packaging, and integrated product development processes - all driven by end product quality. By employing a high-leverage strategy, DDC attains critical advanced technology through industry, commercial, and university partnerships to provide balanced solutions in system cost versus performance. Current opportunities include:

- Analog/Digital Conversion Engineer
- XILINX/FPGA Lead Engineer

High-Performance Computing (HPC) Center of Technology has a technical emphasis in advanced real-time embedded computing systems, networking, topologies, architectures, real-time software technology, advanced processors and next generation software tools. Prime areas of interest are system architecture computing designs to host, implement and demonstrate embedded signal processing concepts and applications. This group is developing the Next Generation architecture based on Advanced Networks for high-performance scalable computing systems. These systems combine commercial off-the-shelf products, open system architecture standards and advanced packaging techniques to achieve a secure, heterogeneous, scalable multi computer for use in embedded real-time applications. Current opportunities include:

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All resumes are scanned and we request that you please use standard format and fonts (Arial or Helvetica font, 12 points, no bolding, underlining, italicizing, or bulleting). For consideration, candidates must include Attn: 6214 on their resume/cover letter. Only one resume is necessary for application. Please indicate position(s) of interest on your resume/cover letter.

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**BUILDING A 145 KV TRANSMISSION LINE
in the Mountainous Terrain of Indonesia**

**Presenter: Steve Galanis,
Fluor Daniel**

Wednesday, January 15 1997

SPEAKER BIO UNAVAILABLE AT TIME OF PRINTING

PLACE

**Chicago Bar Association
321 S. Plymouth Court
Chicago, IL
(Near Jackson and Dearborn)**

TIME

**Social 11:30 AM
Lunch 12:00 PM
Presentation 12:30 PM**

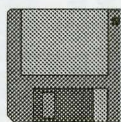
Lunch tickets can be purchased in the Chicago Bar Association Shop on the first floor for \$10.00.

FOR RESERVATIONS

**Please call the IEEE Business Office at (800) 898-4333 or 630 964 4333
to make your reservation no later than noon, Monday, January 13.**

FOR FURTHER INFORMATION

Contact Ed Fayfman at 630 955 2563.



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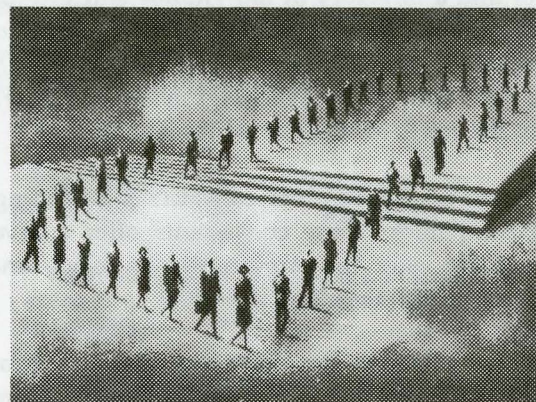
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Perhaps you are unaware that the IEEE United States Activities Board (IEEE-USA) maintains an initiative for and a directory of individuals and groups of technical and management consultants serving national and international companies and institutions. To obtain further information, contact IEEE-USA: Bill Anderson, 1828 L Street., NW Suite 1202, Washington, DC 20036-5104; Phone 202 785 0017 ext 330, Fax 202 785 0835; w.anderson@ieee.org

Typically, a local network consists of independent consultants operating as sole practitioners or as small companies. These consultants offer a diverse range of skills and experience. Most offer the opportunity to select among several consultants that have the expertise the client needs.

The Chicago Section encourages members to develop local operating groups as the occasions warrant. It recognizes these groups as Special Interest Groups within a committee of the Section. To organize or locate a group of your interests, contact consultants.chicago@ieee.org or contact the Section Business Office at 800 898 4333 or 630 964 4333 to obtain the individual to contact. To announce details of your group, send an announcement to the Scanfax Editor or to the e-mail address above.

Local Networks

The IEEE Chicago/Rockford Consultants Network is a local network consisting of members from Northern Illinois (mostly Chicago, Chicago suburbs, and Rockford), and Wisconsin, Indiana, and Michigan. Membership is open to all consultants, including non-electrical engineers and non-IEEE members. By networking, the member consultants provide referrals for each other. Most of the members are active full-time consultants. Some consult part-time, and a few are planning to become consultants.

The network has its own web site where the technical expertise of its members are individually advertised. Prospective clients may visit the site to find consultants, but members are included on the web page only if they request.. There is no charge for inclusion. The web address is <http://www.drblank.com>. The network also publishes a directory of members for distribution to companies and prospective clients.

The group meets the last Monday of the odd months at the Palatine Public Library. The next meeting will be January 27 1997 7:30 to 9:00 P.M.. There are no membership or attendance fees or dues, but the group asks for a voluntary donation of \$10 a year to cover mailing expense. Everyone is welcome to attend and network with us. For further information, contact Harv Brodsky 847 222 1747, Lee Schmitz 847 446 8775, Gary Blank 847 464 4006.

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A BUSINESS MANAGEMENT SHORT COURSE FOR TECHNICAL PROFESSIONALS

The Western Society of Engineers and Illinois Institute of Technology are co-sponsoring a two day short course on the subject of Business Management for Technical Professionals.

As organizations strive to make better use of limited resources, new demands are placed upon engineers and other technical professionals. These demands require that the engineer understand the business side of the organization and work well with both technical and non-technical people to adapt and change with the business environment. This short course is intended to introduce topics and skills that will help the engineer be successful in a changing organizational environment.

The objectives of the short course include:

- the integration of professional and business management skills
- learning to manage complex situations and initiate change
- learning techniques for supervision of professionals and working successfully with teams
- to gain a basic understanding of legal, environmental, ethical and employment issues
- to develop an appreciation of such areas as production and service design and development

The short course will be comprised of seven modules which will be taught by 5 experts in various aspects of management science. The topics within the modules will include a new perspective of business; responsibilities of the engineer as a manager; dealing with co-workers and employees; legal and ethical issues; tools for the new manager; and quality issues.

The short course will take place at the Rice Campus of IIT on Friday, March 15 and Saturday, March 16, 1997. Successful participation is worth 1.4 CEUs. The cost for enrollment is \$295.

For more information, contact the Western Society of Engineers at 312-913-1730 or Carol Wirkus at IIT at 708-682-6005.

National Engineers' Week, DuPage Area Program

Illinois Institute of Technology's Rice Campus

Engineer's Week Events February 20, 21, 22, 1997

The exciting world of engineering, the 13th annual DuPage Area Engineer's Week Program will be hosted by IIT's Daniel F and Ada L Rice Campus.

Launching the three day event will be the Community Forum on Science and Technology, John McCarron, *Chicago Tribune* columnist and editorial writer will speak on "Science, Sanity, and Society, Thursday February 20, 7:30 p.m. at the Rice Campus. The forum will provide opportunity for questions and comments from the audience. For reservations and information: 630 682 6008.

On Friday, February 21, hundreds of middle school students will participate in more than a dozen interactive presentations and a team competition judged by engineers from area companies. On Saturday, February 22, presentations and interactive displays are open at no charge to the general public. Professionals interested in learning about other fields and students interested in career information are invited. Pre-registration - please call 630 682 6020.

Scheduled presentations for Friday and Saturday include investigating air disasters, manufacturing engineering and robots, cryogenics, materials testing, new dimensions of the Internet, and engineering with light. Active events on Saturday include a ScavEngineering hunt constructed by the Society of Women Engineers, a Rube Goldberg contest, a Geiger Counter hunt, and a glider throw.

Drawing 2000 visitors annually, the DuPage Area Engineers' Week Program is held in conjunction with National Engineers' Week. Initiated by IIT's west suburban Rice Campus, the DuPage program is a joint effort among professional engineering societies, the two area national laboratories, businesses, educational institutions, and community organizations. The purpose is to communicate what engineering is and what engineers do, to attract young people to careers in science, technology, and engineering.

A resource pamphlet listing the people and organization representatives will be available for distribution at the Saturday event. This will be also an unusual opportunity for professionals to learn about the benefits to be derived from networking with members of other professional societies.

A list of the presentations and co-sponsors will be in the February Scanfax.

IIT's Rice campus is located at 201 East Loop Road, northerly off Butterfield Road, Wheaton. For more information and to register, call 630 682 6008.

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PRESS RELEASE

DR. FRANK KREITH TO RECEIVE WASHINGTON AWARD

Dr Frank Kreith, Professor Emeritus and ASME Legislative Fellow for Energy Science and Natural Resources, National Conference of State Legislatures, has been elected to receive the 1997 "WASHINGTON AWARD", one of engineering's prized national honors. Dr. Kreith has published over 60 technical articles and books in his field of specialty which is heat transfer and Thermodynamics. The award will be presented to Dr. Kreith at a banquet Tuesday evening, February 18, 1997 at the Union League Club of Chicago, 65 W. Jackson Boulevard.

This event is presented annually by seven national and regional engineering societies, including the American Society of Civil Engineers, the American Institute of Mining, Metallurgical and Petroleum Engineers, American Society of Mechanical Engineers, American Nuclear Society, Institute of Electrical and Electronic Engineers, National Society of Professional Engineers and administered by the Western Society of Engineers.

The award, named after George Washington, was proposed in 1916 by the late John W. Alvord who established it to honor an engineer annually for "devoted, unselfish and pre-eminent service in advancing human progress".

Tickets (\$60) to the banquet can be obtained from the Western Society of Engineers, 53 W. Jackson Blvd., Suite 1730, Chicago, IL 60604 or call (312) 913-1730.

A general reception starts at 5:30 p.m. and dinner will be served at 7:00 p.m.



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