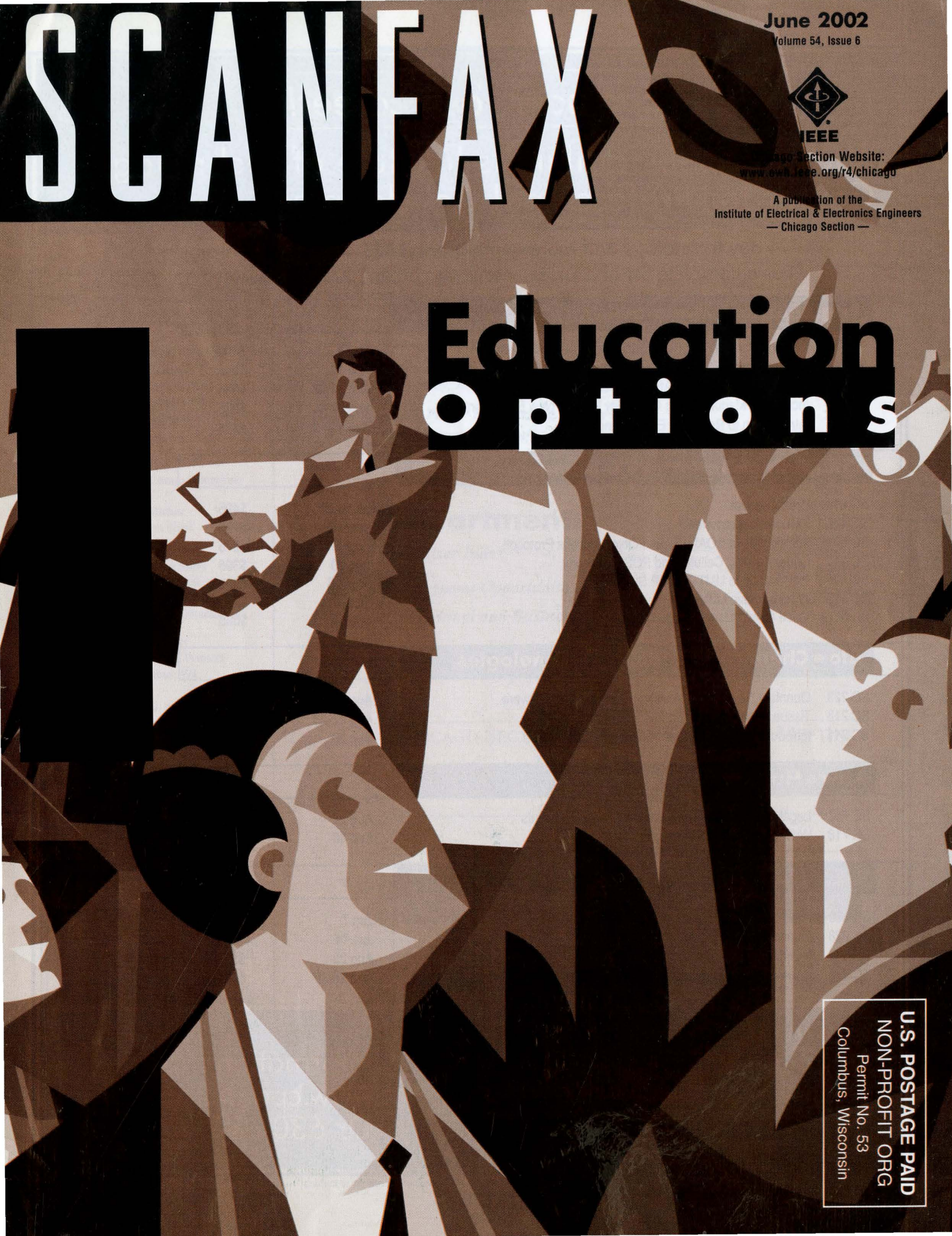


SCANFAX

The background of the cover is a stylized, abstract illustration in shades of brown, tan, and black. It depicts several figures in business attire. In the foreground, a man in a suit and tie is shown in profile, looking upwards. Behind him, another man in a suit is standing and looking towards the left. To the right, a woman is partially visible, looking upwards. The style is geometric and modern, with sharp lines and flat colors.

June 2002

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CHICAGO SECTION EXECUTIVE COMMITTEE MEETING

Tuesday, June 11, 6:30 pm
DeVry DuPage, Room TBA, 1221 N. Swift Rd., Addison, IL
No Registration Needed

ATTENTION

NEW BUSINESS OFFICE LOCATION:

The Institute of Electrical and Electronics Engineers Business Office has moved.
The new address and phone number is as follows:

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Education Options

By Sandy Ryan



Degree, online and certificate programs offered by Illinois Universities are evolving quickly to meet the fast pace of changing careers and technology. Engineers interested in continuing education, a career change or boosting a current career can choose from many diversified programs.

The following are a few examples of programs available and additional information can be obtained by visiting the universities' websites.

BRADLEY UNIVERSITY

Students enrolled in Bradley's Masters of Industrial Engineering (MIE) program can focus on the role of industrial engineers as problem solvers at management and staff levels in manufacturing and service industries. Customized study plans are based on educational

background and career objectives. Concentrations include Quality Sciences, Reliability Engineering, Human Factors Engineering, Manufacturing Management and Production Control.

Courses can be selected from engineering, sciences, mathematics, computer science and business administration. Admission is open to students holding degrees in engineering or science.

The program involves 30 semester hours of graduate level work and may be completed in one year full-time or three years part-time and classes are held during late afternoons, evenings, summers and interims.

ELMHURST COLLEGE

Developing management and interpersonal skills and the ins and outs of WANs, LANs, JAVA programming, distributed databases and client

server systems are all part of Elmhurst's Master of Computer Network Systems (CNS) program.

"The focus of this program is really in two areas—local and wide area networks," said Jim Dauer, program coordinator. "The courses change as the industry changes and our program is very focused on the networking aspect through both theory and hands on work. This is not a strictly technical program, we do show students how their skills benefit an organization so they are not labeled as a typical technical graduate."

Information necessary to designing, programming, implementing and administering a computer network system within an organization is a focus of the program. Students also develop skills structuring distributed data base systems across a network.

Courses meet two evenings weekly and

ten courses are required over a two-year period. Courses are limited to 10-18 students and taught by faculty with background in computer science and electrical engineering. Security cards allow graduate students access to school labs 24 hours each day.

ILLINOIS INSTITUTE OF TECHNOLOGY

IIT's Master of Information Technology & Management (MITM) is designed for working professionals seeking a hands-on, laboratory based program to broaden and deepen knowledge of new and emerging information technologies, the application and integration of the technologies and administrative practices used to effectively manage them.

The courses give students solid knowledge of the field but also prepare for industry-standard certification exams for certifications from organizations such as CompTIA; Microsoft; Sun; Oracle; the Institute for Certification of Computing Professionals; the Linux Professional Institute, Macromedia and the System.

"Coursework for the program is completed in the classroom, in front of a computer to allow students to learn things they can use immediately in the field," said William Enright of IIT. "This program is in response to many requests from people with a bachelor's degree or even an associate's degree who want to increase their skill level but are not necessarily interested in being computer science majors—it gives them an understanding of what the practical experience is like in the real world."

IIT's Center for Professional Development offers more than 150 non-credit short courses ranging from one to four days in length. Areas of study include engineering, computing, Internet, manufacturing, leadership and management. Admission or application to IIT is not required and most offerings do not have prerequisites.

The Center also accepts suggestions for topics and most courses can be offered at a company location.

KELLER GRADUATE SCHOOL OF MANAGEMENT/DEVRY INSTITUTE

Recently, Keller Graduate School and DeVry Institute have 'joined hands' and become DeVry University. The schools' combined resources have led to the implementation of new degree programs with schedules convenient to the working professional.

The Master of Information Systems Management (MISM) program offers a combination of earning a degree while building high-tech skills. The curriculum prepares students to succeed in IS management career positions and concentrations are available in distributed systems management, electronic commerce and large systems.

The Master of Project Management (MPM) program teaches students to develop projects and communicate their value; outline performance

objectives; determine task, budget and resource requirements; provide effective leadership; and promote a motivated team environment.

A balance between technical concepts and management expertise is available through the Master of Telecommunications Management (MTM) curriculum. Students in this fast-paced field will learn about developing concepts and management expertise. Skills will be developed in the technologies and implementing them to meet the needs of an organization.

Lin Stefurak, center director for Keller's DeVry University Center on the Loop, said the MTM program is designed to focus on the management of telecommunication systems instead

of the technology.

"A technical person may have specific knowledge of the technology, but this program is about the management of the infrastructure, systems, networks and personnel," Stefurak said. "Most people in this course are technology based engineers already and have reached a certain plateau in their career where they need to be more in tune with managing people and the infrastructure as opposed to the technology itself."

Students wishing to specialize in any of the three fields without completing the entire program can complete a certificate option within each Masters program.



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NORTHWESTERN UNIVERSITY- McCORMICK SCHOOL OF ENGINEERING & APPLIED SCIENCE

Engineers with a 3-year employment background in a technical field and a previous technical degree can enroll in Northwestern's Master of Engineering Management (MEM) program. The program includes 12 courses that are 50% management and 50% advanced technical courses with four different areas of concentration.

The MEM is a general engineering degree but students must choose one area of the following concentrations—Manufacturing Logistics and Services; Systems Engineering and Project Management; Operations Management and Analysis or Information Technology and Telecommunications.

"This program is ideal for people wanting to break into management positions," said Northwestern's Jeanne Husain. "Many are already in management positions and keenly realize they need to sharpen their skills."

The program's flexible schedule is adjustable to travel or work requirements. A new aspect of the program includes a non-degree offering where students can apply and take up to three course hours on a non-degree basis. The entire MEM program can be completed in time frames from one to five years.

Northwestern's new Masters in Product Development (MPD) degree is part-time with courses held every other Friday and Saturday. Courses meet the entire day and the program can be completed in two years.

The MPD program is designed for professionals wishing to master the concepts and tools of product design and development; managing creativity and design; form and function; project management; customer-focused innovations, research and financial issues related to product development.

"Because of the hands-on environment in the classes, we are limiting them to 25 to 30 students," said Associate Director Lindsay Currie. "There are going to be people who are already in product management development or people looking to move toward that and we need to give them specific attention."

SOUTHERN ILLINOIS UNIVERSITY AT EDWARDSVILLE

SIU at Edwardsville currently offers a new Master of Computing and Information Systems (CIS). The program is offered jointly by the graduate faculties of the Computer Science department of the School of Engineering and the Computer Management and Information Systems in the School of Business.

The CIS program focuses on information systems, software engineering, user and application interfaces, computer system architectures and networks. Completion of the program prepares students to work in positions including software developer, consultant, system integrator, technology manager, systems programmer, project leader or application software specialist. Graduates are also prepared to work as computing generalists within small company environments.

Two tracks are available to complete the required 22 semester hours—managerial applications or technical applications. Most courses are held in the evening and full-time students can complete the program in 5 semesters. The program can be completed part-time in 3 1/2 years.

STUART SCHOOL OF BUSINESS

IIT's Stuart Graduate School of Business offers a Masters of Environmental Management (MEM) that offers a mix of environmental engineering, business and law. Concepts and techniques are taught by IIT's environmental engineering faculty and the program's legal and regulatory courses were developed by IIT's Chicago-Kent College of Law.

Stuart's Masters in Finance program attracts engineers, scientists and mathematicians wishing

to apply skills in the financial services industry. Stuart's Jerry Temaner said the school's MBA program is designed to meet the needs of experienced working professionals and emphasizes current practices, a technological orientation, global perspectives, a cross-functional approach and teamwork.

Fast-track and part-time versions of the program are available and academic credentials held by Stuart faculty include technology management, foreign exchange and futures market, environmental law and compliance, quality management, strategic marketing planning, renewable energy and mathematical and computer modeling. Many serve as consultants to corporations, government agencies and research firms throughout the world.

UNIVERSITY OF ILLINOIS AT CHICAGO

The Master of Engineering (MEng) program offered through the University of Illinois at Chicago is based exclusively on course work with no project or thesis and without departmental affiliation. It is available both through the Internet and on campus.

The program emphasizes Internet courses with the possibility of obtaining a MEng degree through live teaching, videocassette courses or audio/video conferencing. UIC's Carolyn Williams said the program impacts people look-

ing for better quality jobs, changing jobs or those looking to step up within existing jobs.

UIC's Masters in Electrical Engineering offers students education in Circuits and Networks, communications, Electromagnetics and Optics, Signal and Image Processing, Power Electronics, Solid State and Microfabrication and Systems and Controls. Williams said wireless technology and signal processing have come to the forefront of the industry and UIC offers complete tracks for each.

The Wireless Communications Networks course includes ratio technology fundamentals; channel and propagation models; channel multiple access technologies and cellular/PCS wireless mobile network standards.

UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

The University of Illinois at Urbana Champaign will soon offer a series of professional development certificate programs that will be available completely online.

The Electrical & Computer Engineering program offers students the choice of 3 different areas of concentration—Telecommunications & Signal Processing, Integrated Circuits and Power & Energy Systems.

The Computer Science certificate program also offers three concentration area choices—

Systems Software, Software Engineering and Data Base. There is also a third certificate program for Materials.

Students must hold a Bachelors degree to enter the certificate program and must complete three selected courses and maintain a GPA of 3.0. Two courses are eligible for transfer into the Master of Electrical Engineering program offered at the university. Lectures are also available on CD-ROM and exams are proctored.

Laura Miller of UIUC's Office of Continuing Engineering Education said the courses offer flexibility to working professionals looking to expand their education.

"The courses give the student a very good understanding of the topic area and students receive the same material online as on-campus students," Miller said. "The advantage is the online students do not have to come to the campus, exams are generally proctored at the workplace and the courses can be viewed anywhere there is a good Internet connection."

The university also offers online Masters degree programs including Electrical Engineering, Mechanical Engineering and Computer Science. Certificate programs are also available for the three areas with focuses on Telecommunications and Signal Processing; VLSI and Power and Energy Systems; System Software, Information Systems and Software Engineering. ■

UIC University of Illinois at Chicago

MEng

**ME
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The Master of Engineering Degree Program is offered worldwide on the Internet. The MEng is a flexible program based entirely on coursework, without a research component and tailored to the educational needs of professional engineers. Prospective students are able to design their own curricula.

Courses Offered in 2002-2003

Fall 2002

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Intellectual Property Law
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Electromagnetic Field Theory
Engineering Law
Advanced Thermodynamics

Spring 2003

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EVENING MEETING

ED/CAS/SSC (Electron Device/Circuits and Systems/Solid State Circuits) Open MultiMedia Applications Platform (OMAP) Wednesday, June 26, 2002

David Baughman, Texas Instruments and Corbett Kull, Packet Video

About the Topic:

Texas Instruments and Packet Video will present an overview of TI's Open MultiMedia Applications Platform (OMAP). The Texas Instruments OMAP5910 is a dual processor, ARM and DSP, which is architecture optimized for mobile multi-media and mobile computing applications. The presentation will introduce the architectural highlights of the OMAP architecture and include a live demonstration by Packet Video of a streaming video application.

About the Speakers:

David Baughman is a Field Applications Manager for TI's DSP Products, and Corbett Kull is a Development Manager for Packet Video. Both Mr. Baughman and Mr. Kull are members of the Institute of Electrical and Electronics Engineers.

Time:

7:00 PM Social (Free sandwiches, snacks, and beverages)
7:30 PM Presentation

Location:

Motorola Schaumburg Campus
1301 Algonquin Road
Enter Campus using Gate A, westmost gate off Algonquin Road, west of Meacham. Door 13 is under Motorola sign on west face of six-story building. Pre-registration is required.

For Reservations:

Please call the IEEE Message Center at (800)898-4333 or (312)253-4333 by 1PM Monday, June 24th. For information, call Norm Phoenix at (847)523-1078.

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IEEE Power Engineering Society (PES) 2002 Summer Meeting July 21-25, 2002

The IEEE Power Engineering Society welcomes you to the 2002 IEEE Power Engineering Society Summer Meeting (SM02) in Chicago, IL, July 21-25. Hosted by Exelon at the Palmer House Hilton, in the heart of Chicago's Loop. The conference's theme is Taking Technology to New Heights, featuring technical tracks on:

- Securing new/alternative sources of energy
- Improving power delivery
- Enhancing reliability and power quality
- Improving customer service using innovative measurement and control techniques
- Surviving new markets and new structures

The conference will offer the traditional activities, which include paper presentations, awards luncheon, student activities, and committee meetings. Additionally, SM02 is proud to offer the following activities:

PLENARY SESSION – Speakers include John Rowe CEO of Exelon Corp., and Bill Abolt, Chief of Management, City of Chicago Mayor's Office

SHOWCASE OF INNOVATION -The SM02's display of new innovative products designed for the power industry.

TUTORIALS – The following all day courses are being offered at SM02.

Risk Assessment and Financial Management
This practical course instructs people how to identify, model, and manage risk in today's electricity markets. Because of new power markets, changing regulatory environment and volatile electric prices, this class is essential for people working in either the wholesale or the retail market. Tuesday, July 23

Power System Basics for Business Professionals
Intended for those professionals (i.e. lawyers, accountants, sales/marketing, regulators, etc.) working in the power industry who are not engineers, this short course does not require conference registration. Monday July 22.

SPECIAL TECHNICAL SESSIONS – New at the conference, the following technical sessions will be offered. These "Skill Builder" sessions combine engineering fundamentals with practical applications. These free sessions are a great opportunity for review or training. Class size is limited to 30, so sign up early.

Symmetrical Components and Fault Calculation Review.
4 Hours (PM), Monday, July 22

Calculating Transmission Line Impedance Parameters.
4 Hours (AM), Tuesday, July 23

Voltage Drop and Capacitor Placement Calculations.
4 Hours (PM), Tuesday, July 23

National Electric Safety Code.
8 Hours, Wednesday, July 24

TECHNICAL TOURS – Several technical tours have been planned that provide meeting attendees with insights to operations, science and manufacturing. Plan to attend one or more of these tours and be sure to book early since space is limited.

Exelon Thermal Technologies
James W. Jardine Water Purification Plant

Fermi National Accelerator Laboratory
Chicago Tribune Printing Plant

S&C Electric Company
ComEd's Distribution Dispatch Center

ComEd's Diversey, Ontario and Grand/Kingsbury Substations

SOCIAL EVENTS - Conference attendee's are cordially invited to attend the informal "Welcome to Chicago" reception on Sunday evening. Also on Wednesday night, the "Taste of Chicago" Gala Event will be held on Navy Pier. Additionally, numerous companion activities are available daily.

FOR MORE INFORMATION - For additional information about the conference, including on-line registration, please go to the PES Summer Meeting web site at www.ieee-spm2002.org.

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IEEE headquarters provides the following web page to let you change your IEEE mailing address and/or IEEE e-mail address directly:

<http://www.ieee.org/membership/coa.html>

You will need your IEEE Account Number, Password, and Membership Number for initiating such a change securely. The

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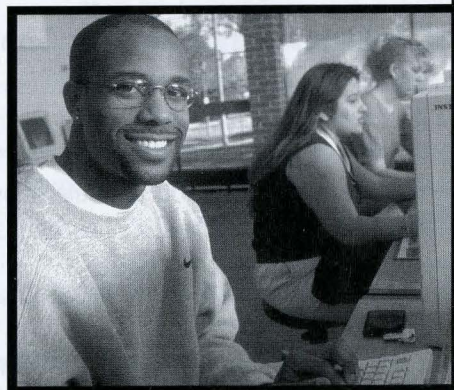
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