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IEEE

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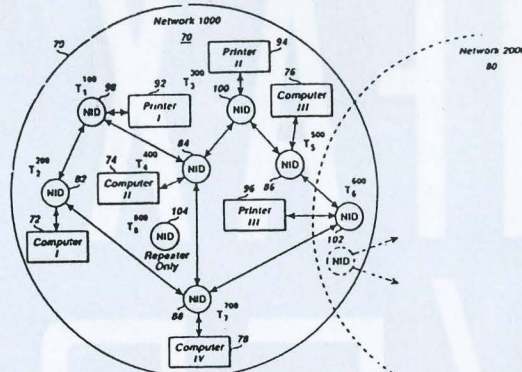
A publication of the
Institute of Electrical & Electronics Engineers
— Chicago Section —

WEB Conferencing

IEEE TURNS TO WEB CONFERENCING
TO BOOST MEETING ATTENDANCE



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SCANFAX

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Tuesday, November 13, 6:30 pm
DeVry DuPage, Room TBA, 1221 N. Swift Rd., Addison, IL
No Registration Needed

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WEB Conferencing

IEEE TURNS TO WEB CONFERENCING TO BOOST MEETING ATTENDANCE

BY SANDY RYAN

IN LIGHT OF RECENT tragedies on the east coast, internet meeting alternatives could be the wave of the future as organizations search for ways to continue scheduled meetings while providing security to employees.

Through web conferencing services, all you need now is a web browser and a telephone and you are on your way to a live meeting. Participants from all over the world can simultaneously view and interact with presentations from more than one speaker on the Internet, while listening to audio over the telephone.

Bob Parro, central area chairman for IEEE Region 4, recently coordinated an IEEE leadership training workshop using Internet meeting technology offered by PlaceWare. Twelve speakers were coordinated and the group met over the Internet two consecutive Saturdays for 2 1/2 hours.

"Because of traditional leadership turn-over at the sectional level, it was very important to hold the workshop," Parro said. "Instead of having a physical face-to-face meeting where people would have to fly in, essentially everyone was sitting at home early on a Saturday morning, dialed in on their computer and phone and we held our meeting."

Parro said PlaceWare technology offers an efficient, cost-effective way to share information over the Internet through PowerPoint Presentations, live software demonstrations, application sharing, website tours and polls.

PlaceWare offers two virtual services - Meeting Places for smaller meetings and Auditorium Places, designed for events that include up to 2,500 participants. PlaceWare also offers event management services that include an event manager, customer

and presenter training, coordination of event activities, management of logistics and audio and event recording and archiving.

Technology required to attend an Internet Conference includes a browser with Netscape Navigator 3.01+ or Microsoft IE 3.02+; a Pentium PC computer with Win 95, 98 NT or Sun workstation with Solaris 2.x or later and 32 MB RAM (64MB recommended).

An Internet connection of 28.8Kbps or faster, a Monitor with 800x600 or higher pixel resolution and a separate phone line for the audio portion are also required. Browser configuration checks are available for use prior to conferences. Meeting information is uploaded onto a secure site that requires a key or pass code to gain access to the meeting.

PlaceWare also offers a service that records meeting audio that is then archived and synchronized to the slide portion of the meeting. If people are not able to attend the meeting, they could then go into the archive and see the slides while listening to the meeting at another time.

The service also features a white board that provides a place for illustration that is visible to everyone present. All speakers can log in, authenticate themselves and draw on the board. Participants can also collaborate live with others on line.

"Some people might say the structure would be a challenge to have the slides provided and uploaded prior to the meeting but it was a very easy process," Parro said. "I coordinated twelve speakers for our meeting by preparing a PowerPoint template for use by all speakers that included matching

font sizes and background colors to create a seamless presentation. We then did a dry run prior to the meeting and uploaded it to PlaceWare's web conferencing site. It allowed everyone to broadcast those slides to everyone that dialed into the site. I am biased but it was a very impressive, seamless meeting and we have had some very good feedback."

Parro said while meeting face-to-face has additional networking benefits over Internet meetings, web conferencing also offers cost savings for organizations.

"Once a year we have our Region 4 workshop meeting and in the past we've always agreed upon a city and congregated there by plane or by car - they are typically overnight affairs. The only cost associated with the Internet meeting was the 800 phone number. Each meeting lasted around 2 1/2 hours and included 10-12 people on each call. It only cost around \$200 for each meeting - it ➔

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IEEE Chicago Section Chapter Chairmen
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MEETING NOTICES, SCHEDULES

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MEng

WEB Conferencing

could have cost \$7,000 to \$8,000 to have everyone fly in and meet face-to-face."

On the other hand, Parro said overnight meeting attendance is often low because people cannot take time away from families or work to be present at a meeting or conference.

"With online meetings, you get a much higher attendance rate because it is so convenient," Parro said. "The main event is to have everyone there and so the online solution comes into play and takes away some of the huge burden as far as getting people together."

Parro said Region 4's online meeting was such a success that it plans to expand use of the service for future meetings.

"At the Region 4 level, we are going to be using these to a

much larger extent to reduce costs, boost attendance and take advantage of the technology that allows us to experience those benefits. Within the executive committee we are going to run hybrid meetings where people will be face-to-face and others who can't make it will be present on line. We are going to be utilizing this much more in the future".

Organizations wishing to use PlaceWare's services purchase licenses or "seats". Parro said the IEEE national headquarters currently has 15 placement seats on the provider and other IEEE entities can use them by applying on the IEEE website. Further information and registration forms can be obtained at www.ieee.org/web/webconf. Further information regarding PlaceWare can be found at www.placeware.com. ■

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LUNCH MEETING

Chicago Chapter of the IEEE Power Engineering Society An Electrician Speaks to Engineers: How to Build it Better, Faster, and Safer Wednesday, November 14, 2001

Michael Fitzgerald, Business Manager, International Brotherhood of Electrical Workers - Local 134

About the Topic:

Mike will address issues involving how electrical construction projects can be performed successfully. Please join the Chicago Chapter of the IEEE Power Engineering Society for a lively discussion on the critical interface between electricians and electrical engineers.

About the Speaker:

Mike is a third-generation electrician and attorney with over 26 years experience. He leads I.B.E.W. Local 134 whose 18,000 members perform electrical construction in the Chicago area. Local

134, along with the National Electrical Contractors Association, operates one of the nation's largest training programs for electricians.

Location:

Chicago Bar Association
321 South Plymouth Court
Chicago, IL 60604

Time:

11:30 AM Social
12:00 PM Lunch (optional)
12:15 PM Presentation
1:00 PM Adjourn

Reservations:

Lunch tickets can be purchased in the lobby bookstore (\$10.50). Please call the IEEE Business Office at (800) 898-IEEE to make your reservation.

For more information, please visit the Chicago Chapter IEEE PES web site:

www.ece.iit.edu/~flueck/chicago_pes/

EVENING MEETING

IEEE - IAS/PES Dinner Presentation Onsite Power Generation at Brookfield Zoo Wednesday, November 14, 2001

Raymond A. Protich, Nicor

About the Topic:

Brookfield Zoo is one of the premier onsite power generation installations in the Chicagoland area. The Zoo relies on sophisticated animal life support systems which are vulnerable to power interruptions and changing electric utility costs. Onsite power generation provided the best solution for both. Commissioned in 1997, the Brookfield Zoo's 4000kw natural gas and diesel onsite power generation system provides most of the daily electrical power requirements for the site. The power generation system also provides Brookfield Zoo with 100% stand alone generating capability in the event of power interruptions from the utility grid. A technical and economic presentation regarding Brookfield Zoo's onsite power generation system will be made with a tour of the system to follow.

About the Speaker:

Raymond A. Protich is currently a member of Nicor Solutions' technical team responsible for

the design and implementation of onsite power generation and cogeneration systems throughout the northern Illinois area. Ray has over 15 years experience in the analysis, design and implementation of onsite power generation and cogeneration systems. Prior to joining Nicor in 1988, Ray was a plant electrical engineer for several manufacturing facilities including General Electric and Johnson & Johnson. Ray is a member of IEEE Industrial Application and Power Engineering Societies and also is on the board of directors of the Midwest Cogeneration Association and Association of Energy Engineers - Chicago Chapter.

NEW Location:

Brookfield Zoo
3300 Golf Road
Brookfield, Illinois

Time:

4:15 PM Arrive at south gate of Zoo

4:30 PM Narrated shuttles begin to Bocaditos
4:45 PM Social
5:30 PM Dinner
6:15 PM Presentation

Directions:

Arrive at South Gate of Brookfield Zoo. Shuttles will operated all evening. See www.iaschicago.com for detailed directions and a map.

Cost:

Includes the presentation and dinner of a Boneless Chicken Breast; Cost is \$45 IEEE Member and \$55 non-member.

Reservations:

Please call the IEEE Business Office at (800) 898-IEEE or (630) 493-4333 with your reservation. Please note any special meal requests at the time of the reservation. You can also make your reservations on line at www.iaschicago.com

Note: For P.E. licenses that require continuing education for renewal, attendance at IEEE Technical Meetings is acceptable as one Professional Development Hour (PDH) per meeting.

Antennas and Propagation/Microwave Theory and Techniques Societies Use of Superconducting Filters and Adaptive Notch Filters in CDMA Cellular Networks

Tuesday, November 27, 2001

Ted Meyers and Anand Varadachari

About the Topic:

This talk will briefly cover the system benefits of cryogenic receiver front-ends in cellular base transceiver station clusters. Test results of cluster deployments of this technology, particularly with the CDMA air interface, have demonstrated improved system performance by reducing mobile transmit power and increasing realized traffic in and around these clusters.

About the Speaker:

Ted Myers is a consultant to the wireless industry. He has 15 years of industry experience. For the past eight years he has worked for multiple wireless service providers as a Manager and Director of Advanced Technology. Mr. Myers is the owner of NormaTek and is currently involved with the testing and field application of multiple adjunct systems and technologies that provide improved coverage and connectivity for wireless users. He studied microwave measurement as an undergraduate and received

a BS in Electrical Engineering Technology from the Milwaukee School of Engineering in 1986.

Anand has over 12 years of progressive management experience in the telecommunications industry in various engineering and marketing roles – technology evaluation, network engineering, business development, strategic marketing, and software development. Anand has an in-depth knowledge of various technologies including PSTN, Wireless - cellular & PCS (specifically CDMA), broadband and Voice over IP. Currently, he is the president of Simma Technologies Inc., a technology and management consulting company focused primarily on the telecom industry. Prior to starting Simma Technologies Inc., Anand held various positions with 3Com Corporation, Ameritech Corporation and Telephone & Data Systems. Anand has an MBA from University of Chicago and an MSEE from Iowa State University.

Location:

Motorola
1301 Algonquin Road
Schaumburg, Illinois
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. Preregistration is required.

Time:

6:30 PM Social (Free Sandwiches, Snacks, and Beverages)
7:00 PM Presentation

Reservations:

For reservations, please call the IEEE Message Center at (800) 898-IEEE or (630) 724-0200 by 1PM Monday, November 26th. For information about the meeting, call Ron Kollman at (630) 924-3761.

IEEE EMC Society- Chicago Chapter

Meeting dates are listed below. Please stay tuned to our web site for meeting topics, locations and guest speakers. Start time for Chapter Meetings is 7:30 PM.

www.ewh.ieee.org/soc/emcs/chicago/

November 14, 2001 Chapter Meeting
December 12, 2001 Chapter Meeting
January 16, 2002 Chapter Meeting
February 20, 2002 Chapter Meeting
March 26, 2002 Chapter Meeting
April 17, 2002 Chapter Meeting
May 21, 2002 Mini-Symposium

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IEEE and Uniforum Chicago Pieces of the Puzzle...Developing DuPage County's Research Park

Tuesday, November 27, 2001

John M. Curley, Battelle Institute - Technology Research, Education, and Commercialization Center

About the Topic:

Big ideas and ambitions are not new to DuPage County, and the plan for developing a world-class Research Park along its western boundary is no exception. Through the county's DuPage Airport Authority, a 700-acre area between the airport and Fermi Labs has been set aside for the development of the Park as well as appropriate amenities to attract and sustain companies that rely on R&D and innovation for their existence. The State of Illinois has also pledged \$34MM to develop the Park's infrastructure, with \$5MM of that already released for surveying and environmental assessment and impact studies.

Since the immediate location of the Park lacks a research university, a number of supplemental resources are being put in place there to assist small technology firms and to act as a magnet to draw companies to the research park and to persuade them to locate there. Among the resources in place or planned for the Park are technology and business assistance centers from NASA, EPA, the SBA, and DOD. A virtual reality laboratory and education center is also being developed there by the University of Illinois Urbana-Champaign through the National Center for Supercomputing Applications. Graduate courses will be offered as well as high-speed remote group collaboration opportunities for business and demonstration purposes, with access to massive databases. Business incubators, accelerators, and mentoring programs are in the planning process as well.

Jack Curley, Technology Marketing Manager of the Technology Research, Education, and Commercialization Center (TRECC), one of the centers now located at the airport, will present an overview and concept of the park, and will provide additional details on the services and resources that are being made available to Illinois businesses.

This office was started recently near the DuPage County Airport, with the aid of a State of Illinois grant, but its formal opening is scheduled

for next spring. John will describe the Center's role to offer local industry the resources available from DOD, NASA, SBA, EPA, as well as from UIUC's NCSA, the originators of the first Web browser "Mosaic". He will also talk about "Virtual Reality" capabilities.

This presentation will be sponsored by Uniforum Chicago, an international professional organization focusing on "Open Systems", as well as by the Chicago Section's Joint Chapter on Professional Communication and Engineering Management.

About the Speaker:

Jack is a member of IEEE and has lived and worked in the Chicago area for his entire career. Graduating from UIUC with a BSEE, he began work as an engineer with GTE's Automatic Electric Laboratories. His career path progressed through engineering, technical sales, marketing, and product management with several companies in the electrical/electronic arena, leading to the position of Operations Manager for KW Battery Company's Industrial Charger Division. During this time Mr. Curley also received an MBA degree from the University of Chicago's Executive Program.

After a few years of self-employment in his own business, a regular paycheck sounded good again and Jack joined NIST's Manufacturing Extension Program as an affiliate of the Chicago Manufacturing Center, founding and developing Extension Centers in both Will and Lake Counties. Earlier this year he joined the Technology Research, Education, and Commercialization Center (TRECC) as Technology Marketing Manager and is an employee of Battelle Memorial Institute, that manages all four of the government centers currently located at the DuPage County Airport.

Location:

Room K-161 in Building "K" of
College of DuPage in Glen Ellyn

(immediately south of 22nd Street and west of Canfield Road; parking lot is between 22nd Street and just north of Building "K")

Time:

7 PM

Reservations:

Joe Feitler 708.383.8773
j.feitler@ieee.org

Note: As the Chapter Chair, I request that the Section and perhaps the Fox Valley Sub-Section will also "co-sponsor" this event. Any of our other Section Chapters are also invited to become co-sponsors.

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EVENING MEETING

ED/CAS/SSC (Electron Devices/Circuits and Systems/Solid State Circuits) Space Time Fading Channel Estimation and Symbol Detection in Unknown Spatially Correlated Noise

Wednesday, November 28, 2001

Arye Nehorai, University of Illinois at Chicago

About the Topic:

This presentation will analyze signal models applicable to Smart-Antennas and CDMA propagation. Dr. Nehorai will present a general statistical framework for maximum likelihood (ML) antenna array processing where the noise is spatially correlated with unknown covariance. The talk will then focus on the application to space-time fading channel estimation and symbol detection. The received signal will be modeled as a linear combination of multipath-delayed and Doppler-shifted copies of the transmitted waveform. Both structured and unstructured array response models, and present Cramer-Rao bound (CRB) results for the unknown directions, time delays and Doppler shifts will be considered. Dr. Nehorai will propose coherent matched filter and concentrated-likelihood receivers that account for the spatial noise covariance and analyze their performance.

About the Speaker:

Arye Nehorai received the B.S. and M.S. degrees in Electrical Engineering from the Technion-Israel Institute of Technology, in 1976 and 1979, and the Ph.D. degree in Electrical Engineering from Stanford University, Stanford, CA, in 1983. Following graduation, he held a position as a Research Engineer for Systems Control Technology in Palo Alto, California. From 1985 to 1995 he was with the Department of Electrical Engineering at Yale University, where he became Associate Professor in 1989. In 1995, he joined the Electrical Engineering and Computer Science Department at the University of Illinois at Chicago (UIC) and was Chair of the department's Electrical and Computer Engineering (ECE) Division from 2000 to 2001. He holds joint professorship with the ECE and Bioengineering Departments at UIC. His research interests are in signal processing, communications and biomedicine. Dr. Nehorai is a Fellow Mem-

ber of IEEE and Editor-in-Chief of the IEEE Transactions on Signal Processing.

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. Preregistration is required.

Time:

6:30 PM Social (Free Sandwiches,
Snacks, and Beverages)
7:00 PM Presentation

Reservations:

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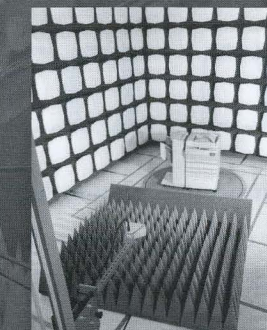
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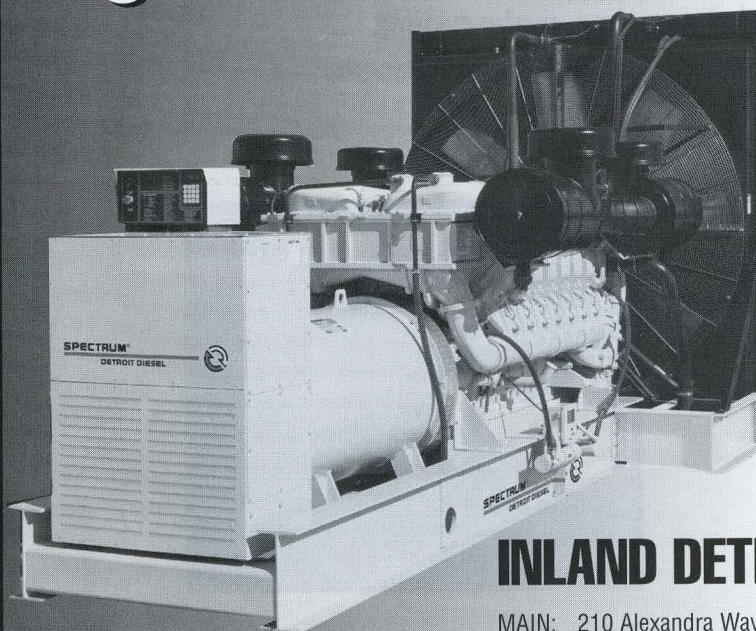
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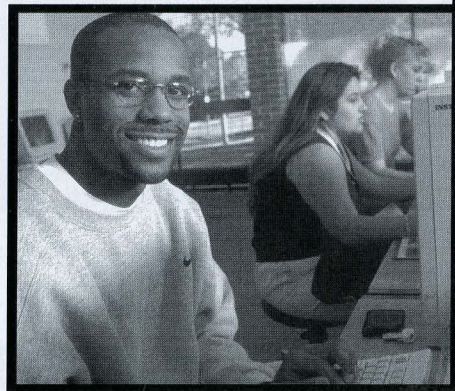
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