IEEE Crosstalk

The Monthly Newsletter of the Mid-Hudson Section of the IEEE

Volume XXXIX, No 7, October/November 2000

Chairman's Corner

The economic outlook for the Mid-Hudson region continues to be positive. Some indicators include the privatization of Stewart airfield, the revitalized waterfront in Newburgh and establishment of EPSON Research & Development Division's New York Design Center in Wappingers Falls. Key to managing this growth is the involvement of leaders within our communities.

The Mid-Hudson Pattern for Progress is a non-profit agency comprised of such leaders drawn from local business and industry. Its role has been to conduct research and community outreach programs on issues of importance in regard to balanced growth in the Hudson Valley. Nearly 500 members and volunteers have been at the forefront in researching and making recommendations on such issues. I believe it is important that we are aware of the work of these leaders and volunteers in shaping the environment for our profession in the region. Some of the issues that the Pattern has addressed include:

- Telecommunications:
- High Tech Clusters
- High Tech Manufacturing
- Business Retention
- Workforce Development
- Smart Government
- Water Use

A sampling of information on the work of Pattern for Progress can be found at the following web sites:

- Http://www.transportationpatterns.org/tp_papers.htm
- http://www.hvtdc.org/news_wint00_12.htm
- http://www.pattern-for-progress.org/news.htm

I am seeking your input regarding building bridges between the Mid-Hudson Section and local businesses and community agencies. In addition to pursuing Corporate IEEE memberships, should we consider joining or affiliating with Pattern for Progress or other non-profit agencies? Please share your thoughts with me and the members of the Executive Committee.

Please note that there will be no November Crosstalk; our next newsletter will be the December edition. Please come join us at our October and November (Annual Meeting / Elections) meetings!

Edward C. Shaffer, Chair
e.c.shaffer@ieee.org

Mid-Hudson Section Website

http://www.ewh.ieee.org/r1/mid-hudson/index.htm

Mid-Hudson Section Leadership

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October Meeting: Merritt Park Substation Tour

PRESENTERS: **Dean Langseder, Operations Supervisor**
David Dittmann, Electric System Protection Engineer (Treasurer, Mid-Hudson Section)
Central Hudson Gas & Electric Corporation

DATE: **Thursday, October 26th, 2000**

LOCATION: **Merritt Park Substation, Fishkill NY**
Note - the Merritt Park Substation is a construction zone. Appropriate dress is recommended.

ITINERARY:
*** 5:30 –5:45 p.m. Meet at Cracker Barrel Restaurant Lot (Rt. 9 and I-84 intersection)**
*** 5:45 p.m. Carpool to Merritt Substation**
*** 6:00 - 7:15 p.m. Substation Tour**
*** 7:30 Return to Cracker Barrel**
*** 7:30- 8:00 p.m. No-host dinner (optional)**
*** 8:00-8:30 p.m. Executive Committee meets**

Central Hudson Gas & Electric Corporation is currently constructing a new Electric Substation at Merritt Park on Route 9, in Fishkill. The substation will be utilized to supply the new Gap facility presently under construction. In addition, the new substation will supply a 400-home subdivision, a new apartment complex and will be designed to supply the next phases of the Gap project - Banana Republic and Old Navy warehouses. When complete, the substation will be rated a firm 50 MVA output, with the Gap requiring approximately 18 MVA. Dean Langseder and David Dittmann, Engineers at Central Hudson Gas & Electric, will provide a tour and overview of the design and construction of this substation.

The design of the substation began in February of 1999. Construction began in May of 2000. Due to the ambitious time line presented by the Gap, the substation design and construction have been fast-tracked. The substation is scheduled to be in-service supplying load in December of this year. The construction is currently on schedule. When complete, the substation will include two 115kV-13.8kV, 20MVA transformers, a 115kV SF6 circuit breaker, eleven 13.8 kV vacuum circuit breakers and the required protection and control. The substation is being designed and constructed with fully microprocessor based protection and control. This will provide greater flexibility, more sophisticated and less costly designs.

The tour will encompass the design and physical layout of the substation including discussions on the major equipment noted above. The protection and control will be outlined including a brief discussion on the protection schemes, microprocessor-based relays utilized and the communications required. Finally, the commissioning necessary prior to placing the substation in service will be discussed.

The Public is Invited

About the October Speakers

Dean Langseder is currently an Operations Supervisor at Central Hudson Gas & Electric. Dean has overall project oversight for the construction of the substation. In his former position, an Engineer in the Substation Design Section, Dean was involved in the design of this facility. Dean has worked at Central Hudson for the past twelve years in both the Engineering and Operations Areas. Dean received his Bachelors Degree in Electrical Engineering from Stevens Institute of Technology and his Masters Degree in Electrical Engineering from Polytechnic University. Dean is a registered Professional Engineer in New York State.

Dave Dittmann is an Engineer in Central Hudson's Electric System Protection Section. Dave is responsible for all of the protection and control within the Merritt Park Substation. He also has responsibility for the protection and control modifications at the remote substations. Dave has been with Central Hudson for eleven years in the Electric System Protection Section. Dave received his Bachelors Degree in Electrical Engineering from Clarkson University and his Masters Degree in Electrical Power Engineering from Rensselaer Polytechnic Institute. Dave is also a registered Professional Engineer in New York State.

MID HUDSON SECTION NOTICE OF ANNUAL MEETING

The IEEE Mid-Hudson Section Annual Meeting will be held during the November 2000 Section meeting. During this meeting, elections will be held for Section Officers for calendar year 2001.

The Nominating Committee has submitted the following slate for elective offices:

Chair:	William F. McCarthy
Vice Chair:	Jean R.S. Blair
Secretary:	Casimer M. DeCusatis Jr
Treasurer:	David J. Dittmann, II

Members at Large:
Larry Prescott
George Krembs
James Loy

Additional nominations may be made from the floor during the October 2000 Section meeting.

November Meeting: Multicast Media

PRESENTER: **Mr. Perwaiz Nihal**
President/CEO
Multicast Media, Wappingers Falls

DATE: **Tuesday, November 14th, 2000**

TIME: **7:00 p.m.**

LOCATION: **Multicast Media**
169 Myers Corners Rd, Bldg 169
Wappingers Falls, NY

Mr. Nihal will discuss and demonstrate the capabilities of this novel Internet Service Provider of Broadband Services via Satellite distribution. In conjunction with terrestrial internet providers, Multicast delivers real-time, true video directly to the Internet users. Applications include business, education and entertainment. Multicast has a number of patents in this arena and is currently well ahead of any competitors.

Multicast Media delivers streaming audio and video content by satellite to the Edge of the Internet. Satellite broadcast bypasses the congestion of the terrestrial Internet while multicast delivery enables a potentially infinite number of users to experience the same content simultaneously. We deliver the multimedia Internet experience as it was intended-the highest quality broadcast, in the shortest delivery time.

Satellite Plus Multicast: Multicast Media has developed a global streaming media content delivery mechanism. Our satellite infrastructure, combined with multicast Internet protocol (IP), amalgamates the best qualities of each technology to deliver the highest quality multimedia content. Content distributed by our network travels above the Internet's backbone to its Edge--the points of presence (POPs) where end-users connect. The Multicast Media Network bypasses the terrestrial Internet congestion that usually makes streaming media choppy and incomplete. Our multicast delivery of content reproduces a source stream so that an unlimited number of people can view the same requested stream simultaneously-without taking up bandwidth or risking a web-crash. We believe that high-quality reception and real-time delivery is now a technological reality.

The Multicast Media Network: Multicast Media has created a broadband (high-speed) broadcast overlay of the terrestrial Internet. The Multicast Media Network enables a high quality service and an unrestricted scalability in multimedia content delivery. The quality of the user experience approaches that expected from traditional broadcasting, and the potential breadth of content selection is unlimited.

The result is near-broadcast quality audio and video-smooth, clear, and real-time. For more information, see the Multicast home page at http://www.multicastisp.com/

The Public is Invited

About the November Speaker

Perwaiz Nihal, President and Chief Executive Officer of Multicast Media, is a 27-year veteran of the satellite and Internet industry. Perwaiz served at IBM's T.J. Watson Research Center in Yorktown, N.Y. Mr. Nihal's work in research and development of worldwide broadband networking infrastructures, satellite communications, high-speed cable modems, DSL and other areas has led to 13 United States and worldwide patents. Prior to founding Multicast Media, Mr. Nihal served in various management and technical positions at IBM in software and hardware development, product program management, and worldwide market development of data compression for the telecommunications industry. He possesses extensive experience in computer science, engineering, Internet and satellite technology.

Mr. Nihal has served on numerous communication-industry committees and has chaired the Broadband Internet Council and XIWT infrastructure committee. He has a Bachelor of Science and Engineering degree from Massachusetts Institute of Technology (MIT) and graduated from the IBM Executive Program for Fast Track & Executive Resources in Armonk, New York.

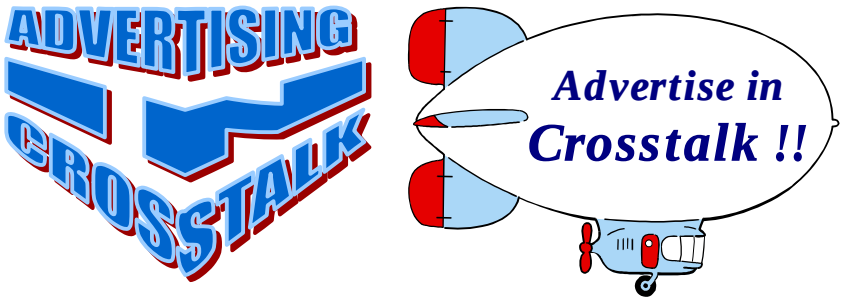
NOTICE OF PROPOSED CHANGES TO SECTION BYLAWS

The Institute of Electrical and Electronics Engineers (IEEE) Incorporated Mid-Hudson Section Bylaws, approved on 6/3/93, are currently being revised by the Section Executive Committee. Most proposed changes are due to directives from Region I that Sections conduct business corresponding to a calendar year (January through December). Approval of these changes will be an item of business for the November (Annual) 2000 meeting.

Scope of changes:
Art. I: Name and Territory (minimal change)
Art. II: Governing Principles (minimal change)
Art. III: Officers (terms of office)
Art. IV: Management (define fiscal year)
Art. V: Nominations and Elections (min change)
Art. VI: Meetings (minimum change)
Art. VII: Subsections (minimal change)
Art. VIII: Technical Society Chapter (min chg)
Article IX: Amendments to Bylaws (min change)

For specifics of the proposed changes see the Section website:
http://www.ewh.ieee.org/r1/mid-hudson/index.htm

For additional details, contact Ed Shaffer (845) 938-5584 or Larry Boland (914) 462-0819



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