



IEEE Crosstalk



The Newsletter of the Mid-Hudson Section of the IEEE

Volume XLIII, No 5, October 2004

Chairman's Corner

Autumn is certainly one of the prettiest times here in the Mid-Hudson Valley; I hope you're all having a chance to enjoy it. In late September, the IEEE Region 1 Board of Governors meeting and Leadership Training Workshop was held in Sturbridge, Mass.; Jean Blair and I represented our section, and of course our own Barry Shoop was present as Director-Elect. A number of initiatives for Region 1 were discussed, including strategic plans for the coming year, workshops and conferences being hosted by other sections, challenges to the membership, and much more than I could mention in this brief space. Please don't hesitate to contact me if you'd like more details.

As we head towards the end of another year, I'm pleased to announce the following slate of candidates for leadership of the section in 2005:

Chair: Robert Sadowski
Vice-Chair: Robert Atkins
Secretary: Lisa Shay
Treasurer: Dave Dittman

Nominations of any additional candidates should be sent directly to me no later than October 22. Elections are typically held pro forma at the November or December meetings, with the new leadership taking office in January.

Dr. Casimer DeCusatis, Chair
decusat@us.ibm.com

Upcoming Events

November 3, 2004: WIE bookclub meeting to discuss Lou Gerstner's book "Who says elephants can't dance: inside IBM's historic turnaround". Contact Rebecca Gott at IBM for details.

November 5, 2004 (all day event): Nanotechnology Workshop at SUNY New Paltz; contact Casimer DeCusatis (decusat@us.ibm.com)

November 8, 2004: Save this date for a joint MHTC speaker event in the evening, in the Villard Room, Vassar College; details coming soon on www.midhudsonotechnology.com

November 12, 2004: IEEE family event at Spaceship Discovery, Hyde Park; contact Casimer DeCusatis (decusat@us.ibm.com)

Coming Attractions: Mark your calendar now for National Engineers Week 2005 banquet on February 22, hosted by ASME. Check our website for other events, travel directions for scheduled events, or last minute cancellations due to poor weather conditions.

Mid-Hudson Section Leadership

Chair: Casimer DeCusatis
Immediate Past Chair: Jean R.S. Blair
Vice-Chair: Robert Sadowski
Treasurer: David J. Dittmann, II
Secretary: Robert Atkins
Members-at-Large:
Lawrence J. Boland
George Krembs
William McCarthy
Program Chair: TBD
Publicity Chair: Dale F. Sorenson
Newsletter Publicist: Brett Arteta
Associate Editor: TBD
PACE Chair: Larry Winkler
Section WebMaster: Larry Winkler
Student Activities Chair: Michael Otis
Engineer's Week Coordinator: Vic Melville
Women in Engineering: Rebecca M. Gott
GOLD Chair: Dmitriy Shneyder
Industry Liaison: Asha Upadhyay

Society Chapter Chairs:
Power Society: Hal Turner
Electron Devices Society: Michael Hargrove
Computer Society: TBD
Education Society: Michael Otis
Life Member Society: George Krembs (acting)

Mid-Hudson Section Website

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

Mid-Hudson Section General Contact

Decusat@us.ibm.com (845) 435-7232

November Meeting : Workshop on Nanotechnology

CONTACT: Casimer DeCusatis (decusat@us.ibm.com) or Dean John Harrington (harringj@newpaltz.edu)
DATE/TIME: Friday, November 5, 2004 – all day event (8 AM – 4 PM)
COST: \$20 per person, or \$10 with valid student ID
additional \$10 per person to receive 0.7 Continuing Education Units for NY State PE License for advance registration form, see the Mid-Hudson IEEE website or the SUNY engineering dept. (www.engr.newpaltz.edu)
LOCATION: SUNY New Paltz campus, Lecture Center room 102 (lunch in the College Terrace)

Mark your calendars for the first annual nanotechnology workshop, sponsored by Mid-Hudson IEEE, SUNY New Paltz, and IBM. This all-day event will feature invited speakers on various topics in nanotechnology; registration includes a copy of the speaker's presentation materials, cold buffet lunch, and coffee breaks. Within the past few years, nanotechnology has emerged as a promising interdisciplinary technical field, which borrows from advances in such fields as physics, biology, chemistry, electrical and mechanical engineering to create a wide range of exciting new opportunities. The goal of this workshop is to educate and inform interested researchers, engineers, and students by sharing information through a series of invited lectures given by experts in the field. These lectures will present tutorial information on recent developments in nanotechnology, as well as insight into current research directions and potential applications. The presentations will include examples which illustrate basic research concepts, simulations, and case studies regarding the commercialization of specific nanotechnology applications. A panel discussion on issues & concerns with the future of nanotechnology will feature participation from all of the invited speakers.

SPEAKERS:

Dr. Casimer DeCusatis, IBM Corporation, "Introduction to nanotechnology and nanoscale optical fibers"
Dr. Robert Geer, SUNY Albany Nanotechnology Center, "Exploiting nanotech. for the IC industry"
Dr. Ken Shepard, Prof. of Engineering, Columbia University, "CMOS biochips"
Dr. Gregory Kirk, Vice-President of Technology, Semzyme Corporation, "Biologically directed nanostructure synthesis and assembly"
Dr. Kathryn Guarini, Thomas J. Watson Research Center, IBM Corp., "Self-assembly techniques for nanostructure FLASH memory devices"
Dr. Robert Filkins, General Electric Corporation, "Multi-photon fluorescence and nanostructure bar codes"
Lieutenant Colonel George Nowak, United States Military Academy, West Point, "Operating principles and emerging applications of photonic crystal fibers"
Panel Discussion, "The Future of Nanotechnology: Issues and Obstacles to Success"



Attendees who register for this workshop are eligible for 0.7 continuing education units (CEU) for the New York State Professional Engineers License Program, for an additional fee of \$10 per person, payable to the workshop committee. The IEEE is an authorized CEU provider of the International Association for Continuing Education and Training, IACET provider # 1255

For more information, please visit the workshop website (www.engr.newpaltz.edu) or contact Dr. John Harrington, Dean, School of Science and Engineering, SUNY New Paltz, 75 S. Manheim Blvd, New Paltz, NY 12561 (845) 257-3728 (harringj@newpaltz.edu)

The Public is Invited to Attend !

November Meeting

Family Night at Spaceship Discovery

CONTACT: Casimer DeCusatis (decusat@us.ibm.com)

DATE /TIME: Friday, November 12, 2004 (pizza served at 6 PM followed by a museum tour)

COST: FREE to IEEE Members (normal admission charge is \$8 per adult, \$6 per child)

LOCATION: Spaceship Discovery children's science museum, route 9 in Hyde Park, NY

ABSTRACT: Join us for an evening of family fun at the Spaceship Discovery children's science museum. We'll begin with a pizza buffet for dinner, then receive a guided tour of the museum; this is a child-friendly event, and a good chance to pick a few early holiday presents at the museum gift shop. The Spaceship Discovery crew, dressed in Star Trek uniforms, will guide you through the museum's many hands-on science exhibits, including a robotics lab (featuring The Terminator, R2D2, and his girlfriend R2-She2), a life-size model of the Enterprise shuttle craft, a time machine trip from the dinosaurs and ancient Egypt to the far future, and much more. You can take in a video at their large screen theatre, or play with magnets, electricity, and other forces of nature. Bring your children, grandchildren, or just the child in yourself and experience this unique event, as featured on both local and national news broadcasts.

Spaceship Discovery is located just off Route 9 in Hyde Park; for directions and more details, you may contact them at (845) 229-2438 or see their website

<http://www.spaceshipdiscovery.com/discovery/index.php>

The Public is Invited to Attend !

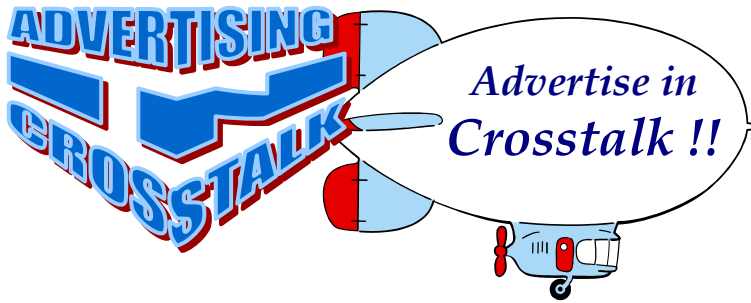
What's Happening in the Section

The Mid-Hudson section PACE sponsored an Engineering Expo event at West Point, held Sept. 10. About 700 students attended the expo and several professional organizations and engineering departments were represented. To increase IEEE professional society awareness, the EE program director distributed pens with the IEEE logo.

Mark your calendars now for the National Engineers Week banquet on February 22, 2005, hosted by ASME !

Also, remember the National Engineers Day at SUNY New Paltz, sponsored by Mid-Hudson IEEE and others, is being planned for Wednesday, February 23, 2005.

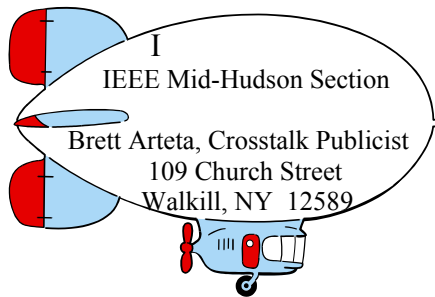
Finally, mark your calendars for Thursday, February 10, 2005 for another MHTC sponsored distinguished speaker event.



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Do you need help preparing for the Professional Engineering Exam ?

The Department of Electrical and Computer Engineering is offering the course, "Fundamentals of Engineering" in the Spring 2005 semester. This is a three-credit course intended for engineers who are preparing themselves for the first part of the Professional Engineering Exam. It will be offered on Tuesday and Thursday, 6:30 – 7:45. For more information and registration, please contact Judy at (845) 257-3720 or depuyj@engr.newpaltz.edu