



IEEE Crosstalk



The Newsletter of the Mid-Hudson Section of the IEEE

Volume XXX, March 2009

Chairman's Corner

I would like to thank Dr. Lisa Shay for her dedicated serving as the Section Chair for the past two years, and before that as the Section Vice Chair and the Section Secretary. Moreover, I am grateful to the volunteer service of our chapter chairs and other members of our Section's Executive Committee. Finally, I thank you for your IEEE membership.

During the current economic downturn, as many have either lost their jobs or are concerned about loosing their jobs, the existence of the IEEE as the professional home of members can be as important as ever. Surveys have shown that the number one way to shorten the unemployment period is networking. Hence, at Mid-Hudson's Section collectively, we can provide resources so that you can learn, connect, and serve the community. Toward that goal, our sections can provide programs to assist its membership in career development from Student to Life Member. So, please consider volunteering for a number of open positions so that we can collectively, Inspire, Enable, Empower, and Engage (IEEE) our membership. I look forward to hearing from you on how we can return value to your membership in Mid-Hudson. Chapter chair and I welcome hearing about specific networking sessions, training, or technical talks that would be on of interest to you. Moreover, we are always looking for volunteers to present talks for our active chapters.

Upcoming Events

April 4th, 2009: Dutchess County Science Fair will celebrate its 50th anniversary as the longest running volunteer science fair in America. Read more inside

FIRST Lego League: Contact Dr. Casimer DeCusatis, an IEEE member as well as Founder and Director of Hudson Valley FIRST Lego League, (decusat@us.ibm.com), read more inside....

Summer IEEE Family Picnic: June 21, 2009 at West Point We tentatively have a family picnic planned for Sunday June 21 from 3PM to 6 PM at West Point. Those interested may want to stay for the Sunday night band concert. More to follow!!

April 21st: Power & Energy Meeting... see inside for details

Mid-Hudson Section Leadership

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Mid-Hudson Section Website

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



Mid-Hudson Section General Contact

izadi@computer.org (845) 257-3823

On April 4, the Dutchess County Science Fair will celebrate its 50th anniversary as the longest running volunteer science fair in America. Mid-Hudson IEEE will continue its support of special awards for student projects related to electrical and computer engineering. Volunteers are needed to judge these projects; no prior experience is required, and you get to encourage a passion for science and technology in some of our area's brightest young people. The fair will be held at Dutchess Community College, Falcon Hall, from 8 AM - 4 PM; judges will be finished by around 1 PM. Anyone interested can contact Dr. Casimer DeCusatis (decusat@us.ibm.com) who will be coordinating the IEEE judges this year; for more information, visit the science fair website at www.dcsiencefair.org

FIRST Lego League: This past year, Mid-Hudson IEEE was proud to sponsor Hudson Valley FIRST Lego League events on our area. The nonprofit organization FIRST (For Inspiration and Recognition of Science and Technology) operates in over 40 countries worldwide, serving an estimated 120,000 students. The Hudson Valley organization serves almost 1,000 local students, age 6-14, by sponsoring 4 qualifying tournaments and a championship tournament, which was held February 28 at Dutchess Community College. This year, the Robospartans from New Hartford, NY won second place overall, and will travel to the FLL US Open in Dayton, Ohio, May 7-9. The Grand Champion team, Creative Connectors from 7 Bridges Middle School, was unable to attend the next level of competition due to scheduling and financial constraints; instead, the runner-up team Robo Rexasaurus (a privately sponsored team coached by an IBM employee from Yorktown Heights) will attend the FLL World Expo at the Georgia Dome in Atlanta, Georgia, April 16-18. You may have seen Hudson Valley FIRST Lego League in the Poughkeepsie Journal or on Channel 6 local news; for more information, visit the Hudson Valley website at www.myspace.com/midhudsonfll or the national website www.usfirst.org , or contact Dr. Casimer DeCusatis, an IEEE member as well as Founder and Director of Hudson Valley FIRST Lego League, (decusat@us.ibm.com).



Power & Energy Society Meeting

(Formerly known as the Power Engineering Society)

Radiation Hazard from Wideband Over Power lines

**A technical presentation followed by a
Buffet dinner (chicken entrée, pasta, salad, and dessert)**
(Free for IEEE members, \$10 for non-members)

Presenter: Mohammad R. Zunoubi, *Senior Member, IEEE*, Electrical and Computer Engineering
Department, State University of New York, New Paltz, NY

Date: Tuesday, April 21st, 2009

Time: 6:00 to 8:00 PM

Where: SUNY New Paltz Campus - Resnick Engineering Hall 109

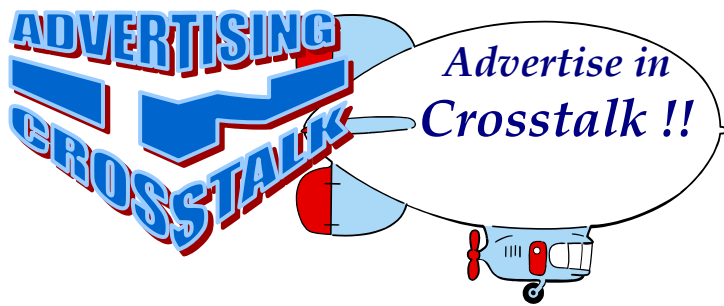
RSVP required by April 17th to Michael Spector (845) 486-5469 or
mspector@cenhud.com

Abstract

This presentation addresses the radiation effects of the wideband over power lines and/or communication antennas installed on these lines. In particular, we present studies of the effectiveness of both power- and RF-frequency garments in suppressing the electric field strength entering the human head. It is shown that a conducting hood without a see-through screen acts as an RF resonator thereby increasing the field strength in human brain. However, if the hood is covered with the conducting screen, much of the field is prevented from entering the head. Based on our analysis, a safety guide can be adopted for the power-line workers who are exposed to both extremely low and RF frequencies.

About the Speaker

Mohammad R. Zunoubi is currently an Associate Professor in the Department of Electrical and Computer Engineering at the State University of New York at New Paltz. During the summer of 2003, he was a Visiting Scholar in the Electrical Engineering Department at The University of Mississippi. Prior to joining SUNY New Paltz in 2001, he was an Assistant Professor with the Electrical and Computer Engineering Department at Lake Superior State University, Michigan (1999–2001). He is a senior member of the Institute of Electrical and Electronics Engineers. He has published over 40 journal/conference publications and has also been a reviewer for national and international Electrical Engineering journals. His research interests include the areas of computational electromagnetics, antennas, scattering, and electromagnetic compatibility.



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