



IEEE Crosstalk



The Newsletter of the Mid-Hudson Section of the IEEE

Volume XLV, No 2, April 2006

Chairman's Corner

We have had many successful events this year including the kick off dinner, Engineering Day at SUNY New Paltz, the Mid-Hudson Technical Societies NEWeek Banquet, a technical talk on nanotechnology, and the IEEE judging at the Dutchess County Science Fair. These events in the Mid-Hudson Section give us the opportunity to broaden our technical vitality, to network, and to work with local students. I'd like to thank our volunteers for making them possible. I'm looking forward to our Spring events and hope to see you there!

Rob Atkins, 2006 Chair

ratkins@us.ibm.com

Upcoming Events

April 27, 2005: Technical presentation sponsored by the Computer Society titled "Software Oriented Architecture (SOA)" by Howard Operowsky, IBM SWGA Competitive Technology Laboratory Senior Technical Staff Member. The presentation will be at SUNY New Paltz, 6:00 – 7:30PM.

For more information see page 2 or contact Dr. Baback Izadi at:

bai@engr.newpaltz.edu

May 6, 2006: 3rd Annual Scintilla Forum will be held at Dutchess Community College and sponsored by the Mid-Hudson Technology Council. For more information contact Dr. Yaser Khalifa at:

yaserma@engr.newpaltz.edu

May 10, 2006: Technical presentation sponsored by the Computer Society titled "Security in the World Wide Web" by Fernando Maymí, CISSP, Assistant Professor, Department of Electrical Engineering and Computer Science at the United States Military Academy. The presentation will be at USMA, West Point, 6:00 – 7:30PM.

For more information see page 3 or contact Dr. Baback Izadi at:

bai@engr.newpaltz.edu

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Mid-Hudson Section Website

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



Mid-Hudson Section General Contact

otism@engr.newpaltz.edu (845) 257-3827

Computer Society Meeting

Web Services and Software Oriented Architecture

By: Howard Operowsky, Ph.D.

April 27, 2006, 6:00 PM

Resnick Engineering Hall 109

SUNY - New Paltz

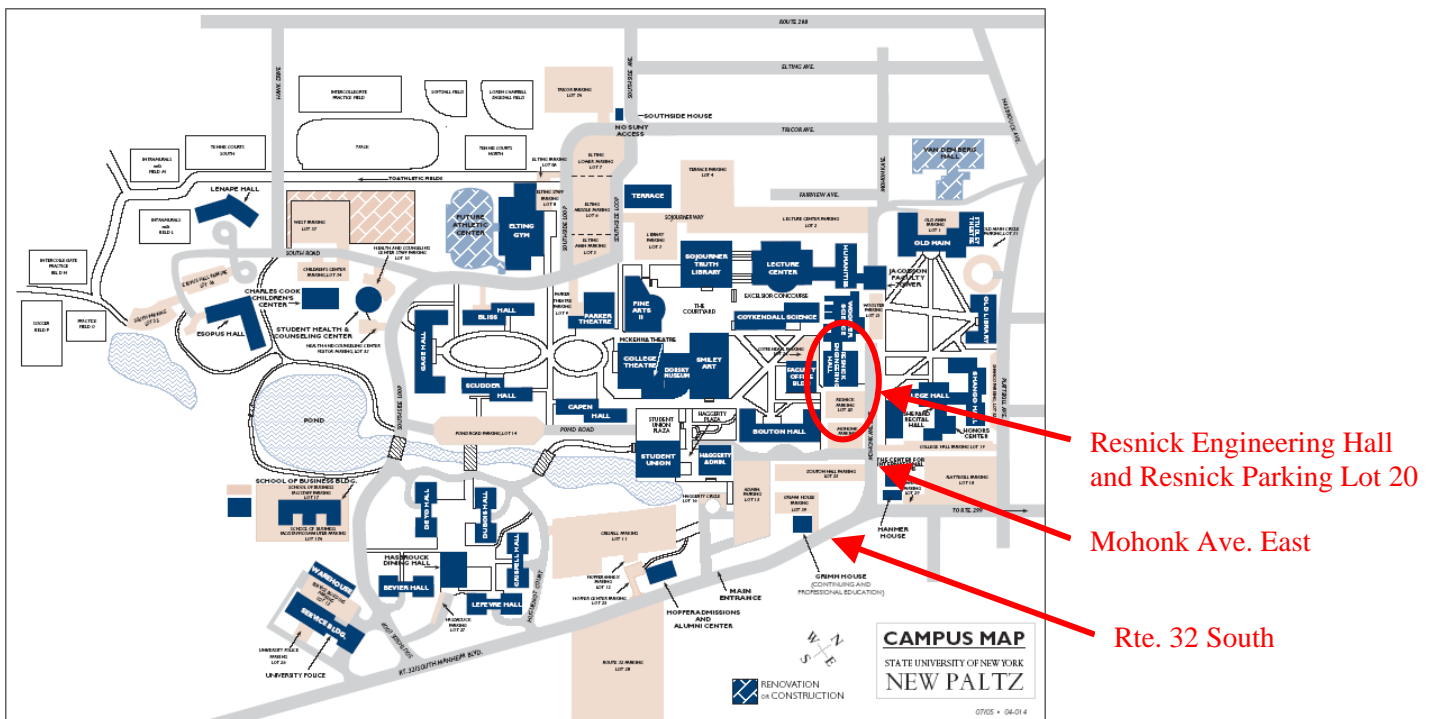
Abstract

Web Services and Software Oriented Architecture (SOA) are two of the most important new software technologies today. One important reason for this is that they allow totally independent applications distributed across a network to easily communicate with each other even if they are written in different programming languages, and execute on different hardware and software platforms. So great is the promise of SOA, that IBM and Microsoft have jointly created the standards group, Web Services – Interoperability, or WS-I, to ensure interoperability of web services. In this talk, I will describe what web services and SOA are, the technologies behind them, the standards work that is going on in the industry to address current deficiencies, and how IBM is supporting SOA in its products.

Biography

Howard Operowsky is a Senior Technical Staff Member in the Strategy and Technology division of IBM's Software Group. Since joining IBM, he has been manager or technical leader of a variety of IBM products including WebSphere Commerce architecture, collaborative multimedia applications, AIX/ESA operating system architecture, the design and development of compilers and programming languages for high-end parallel systems, and performance analysis of mainframe operating systems. He received his Ph.D. in Computer Science from the Courant Institute of Mathematical Sciences at New York University, has two patents, and is a Senior Member of the IEEE.

Subs and beverages will be served



For SUNY New Paltz map and directions go to: <http://www.newpaltz.edu/map/>

Computer Society Meeting

Security in the World Wide Web

By : Fernando Maymí

May 10, 2006, 6 PM

Thayer Hall Room 212

The United States Military Academy, West Point

Abstract

The world-wide web is one of the most challenging environments from a security perspective. With the increasing popularity of distributed applications that use the Web to connect clients and servers there has also been a dramatic increase in the number of ways in which attackers can threaten our computers and networks. Whether you are a home user purchasing personal items from a web store, or an industry executive who relies on business-to-business electronic commerce to remain competitive, you need to be aware of the threats so you can mitigate the risks to your information systems. This presentation introduces the top Web-based attack vectors, describes their potential effects, and explains the controls that can be used to mitigate the risks they pose.

Biography

Fernando Maymí, CISSP, is an Assistant Professor in the Department of Electrical Engineering and Computer Science at the United States Military Academy. In this capacity, he teaches courses in Information Systems Development, Information Assurance, and Computer Forensics. He also works as a Senior Research Scientist in the department's Information Technology and Operations Center (ITOC), which is a research center devoted to applied research in the areas of Information Assurance, Information Technology, and Information Operations. Major Maymí holds a Masters of Science degree in Computer Science from the Naval Postgraduate School in Monterey, California, and a Bachelor of Science degree from the United States Military Academy in West Point, New York.

Refreshments will be served

Directions to Thayer Hall: The easiest way to get to Thayer Hall is to enter West Point via Thayer Gate (come through the town of Highland Falls). Main Street of Highland Falls runs directly to West Point. Continue straight (north) on Thayer Road for approximately 1 mile. Immediately after passing through a tunnel under Mahan Hall, Thayer Hall will be on your right. At the north end of the building make a right turn into the roof-top parking lot. The top floor of the building is the 4th floor, so go down two flights of stairs (or take the elevator) to the 2nd floor. There will be signs indicating the direction to Room 212.

For further directions go to: <http://www.usma.edu/directions/>

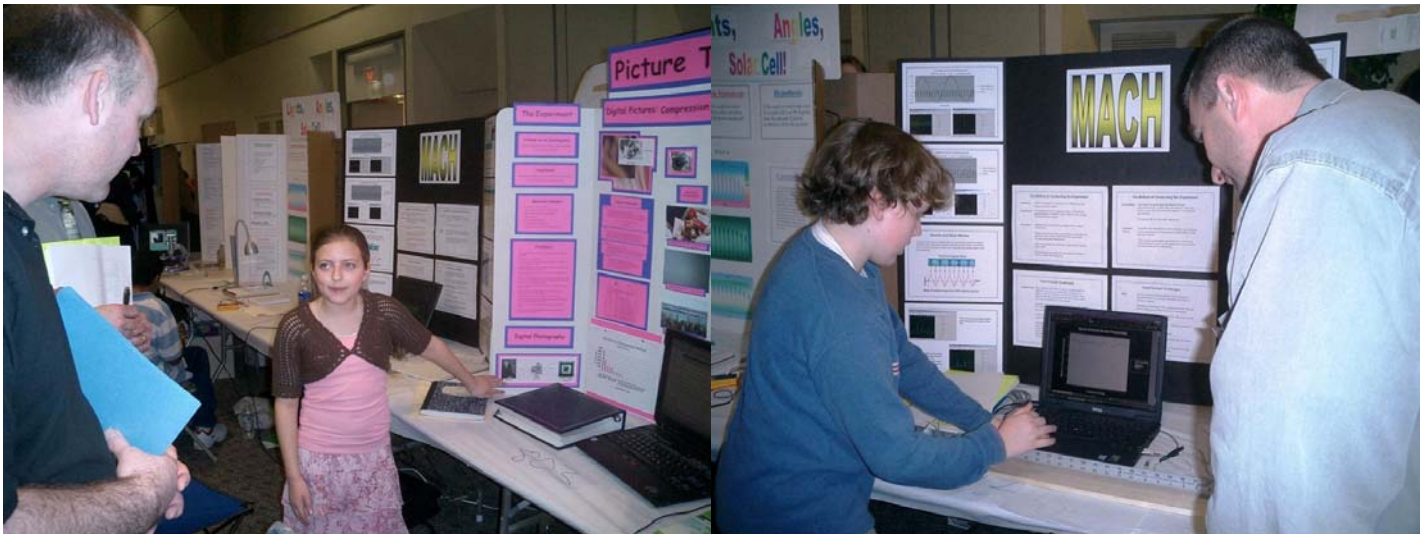
For a map of West Point go to: <http://www.usma.edu/PublicAffairs/wpmap.JPG>

For a map of the region go to: <http://www.usma.army.mil/PublicAffairs/wpmap2.JPG>

In The News:

The 47th Annual Dutchess County Science Fair was held April 1, 2006 at Bright Horizons at Casperkill, Poughkeepsie, NY. Students (5th through 12th grade) presented exhibits from the following categories: Biology; Chemistry; Physics; Mathematics; Computer Science; Engineering; Earth and Space Sciences; Environmental Sciences; Behavioral and Social Science. IEEE Mid-Hudson helped sponsor the event and awarded the following students for their contribution with regards to Electrical Engineering:

<u>Place</u>	<u>Student Name</u>	<u>Project Name</u>
1 (\$75 award)	Jillian Kramer	Picture This...Digital Photography: Compression vs. Quality
2 (\$50 award)	Chris Bode	Mach - The Speed of Sound
3 (\$25 award)	Adam Freeman	Exceptional Reception
Honorable Mention	Mason Di Marco	Current Events
Honorable Mention	Kayla Every	Dancing Spring In an Electrolyte Solution
Honorable Mention	Joey Kjeldsen	Propellers and Thrust
Honorable Mention	Savan Shah and Alex Lam	Power of the Sun
Honorable Mention	Ankit Prasad	Generating Electricity
Honorable Mention	Aimee Gifford	Battery Life Comparison

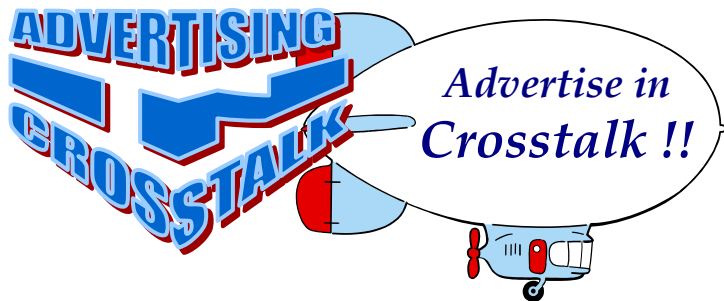


1st Place IEEE Award – Jillian Kramer

2nd Place IEEE Award – Chris Bode



3rd Place IEEE Award – Adam Freeman



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Becoming a Senior Member is not as difficult as you might think. According to the IEEE bylaws, "a candidate shall be an engineer, scientist, educator, technical executive or originator in IEEE-designated fields. The candidate shall have been in professional practice for at least ten years and shall have shown significant performance over a period of at least five of those years." If you qualify and would like to become a senior member, contact a section officer.

Congratulations to these members of the section who recently became senior members:

Ron Dodge	John Levine
Aaron Ferguson	Fernando Maymi
Ken Fritsche	Mike McNett
Bryan Goda	James Raftery
John Hill	Dan Ragsdale
Grant Jacoby	Eugene Ressler
Greg Kilby	Andre Sayles
	William Suchan

More information on Senior Member Elevation:
<http://www.ieee.org/organizations/rab/md/smforms.htm>