



IEEE New Orleans Computer Society , 2012

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Welcome to the 2012 New Orleans Computer Society Chapter

Technical talk:

Cyber Warfare -StuxNet and Beyond Abstract

When : Nov 29, 2012 1130AM-1230PM

Where: HR Conference Room, 23rd Floor, Entergy Building New Orleans

Cost: Free for PES and CS members, \$10 for non members

PDH: One PDH certified by IEEE

RSVP: email cwong92@entergy.com or swong@entergy.com by Nov 27.

Abstract

It is now understood by most world powers that future wars will all take place in part in cyberspace. It is also widely agreed that most of the cyber warfare technology that will be used will have descended from the research facilities of the United States and its western allies. What is not as obvious is who the ultimate victors will be. One of life's ironies is the countries that lead the way in

developing cyber-technology are not the ones that are taking best advantage from it. Within the past five years, DDOS attacks against Estonia, Georgia and South Korea and the U.S. have made it abundantly clear that other non-Western nation-states have offensive capabilities that exceed the defensive abilities of the U.S. and its allies.

This talk will present an overview of Cyber Warfare from both technical and cultural perspectives. Several existing CW threat vectors will be discussed, including the most effective and complete Cyber-attack yet launched: Stuxnet. The talk will then turn to several new threat vectors that have recently been identified and conclude with an open discussion.

Presented by IEEE Distinguish Speaker:



Dr. Hal Bergel

Hal Berghel is currently Professor of Computer Science at the University of Nevada, Las Vegas where he has previously served as Director of the School of Computer Science and Associate Dean of the College of Engineering. He is also the founding Director of the Identity Theft and Financial Fraud Research and Operations Center.

His research interests are wide-ranging within the binary and digital ecosystem, ranging from logic programming and expert systems, relational database

design, algorithms for non-resolution based inferencing, approximate string matching, digital watermarking and steganography, and digital security (including both computer and network forensics), Since the mid-1990's he has applied his work in digital security to law enforcement, particularly with respect to digital crime, cyberterrorism, and information warfare. His research has been supported by both industry and government for over thirty years. His most recent work in secure credentialing technology was funded by the Department of Justice. In addition to his academic positions, Berghel is also a popular columnist, author, frequent, talk show guest, inventor, and keynote speaker. For nearly fifteen years he wrote the popular Digital Village column for the Communications of the ACM.

Berghel is a Fellow of both the Institute for Electrical and Electronics Engineers and the Association for Computing Machinery, and serves both societies as a Distinguished Visitor and Distinguished Lecturer, respectively. He has received the ACM Outstanding Lecturer of the Year Award four times and was recognized for Lifetime Achievement in 2004. He has also received both the ACM Outstanding Contribution and Distinguished Service awards. He is also the founder and owner of Berghel.Net, a consultancy serving business and industry, and co-owner of BC Innovations Management, a startup company in IP and DRM.

Our Mission

With nearly 85,000 members, the IEEE Computer Society is the world's leading organization of computing professionals. Founded in 1946, and the largest of the 39 societies of the Institute of Electrical and Electronics Engineers (IEEE), the CS is dedicated to advancing the theory and application of

computer and information-processing technology.

The CS serves the information and career-development needs of today's computing researchers and practitioners with technical journals, magazines, conferences, books, conference publications, and online courses. Its Certified Software Development Professional (CSDP) program for mid-career professionals and Certified Software Development Associate (CSDA) credential for recent college graduates confirm the skill and knowledge of those working in the field. Known worldwide for its computer-standards activities, the CS promotes an active exchange of ideas and technological innovation among its members.

Contact Us

Your opinions are important to us, please contact us anything you would like to see from IEEE New Orleans Computer Society. Thank you.

Chan Wong, Ph.D.

Chair, 2012
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