

You are Cordially Invited to Attend a One-Day Symposium on

# Developing Highly Reliable and Trustworthy Engineering Systems

FRIDAY, JUNE 1, 2007, 11:00 am - 4:00 pm

Eastern Washington University  
Pence Union Building Room 263-267

Sponsored by  
The IEEE Reliability Society &  
The College of Science, Health and Engineering  
Eastern Washington University

**Engineering, math and computer science students are strongly encouraged to attend. Free Registration**

## Program

11:00 Opening Remarks

*Dr. William Tonti, Manager CMOS Modeling and Release, IBM and President, IEEE Reliability Society*

11:10 **Feature presentation:** Malware in the Real World

*John Viega, Vice-president and Chief Security Architect, McAfee Corporation*

12:00 Lunch

1:00 **Feature Presentation:** Building Predictable Behavior Into a System of Systems

*Dr. Bret Michael, Professor of Computer Science, Naval Postgraduate School, Monterey, CA*

1:50 Refreshments

2:10 **Workshop:** Design for Six Sigma Approaches and Tools

*Dr. Samuel Keene, Six Sigma Master Black Belt. Keene and Associates*

## Speakers

**John Viega** is a Vice-president and Chief Security Architect at the McAfee Corporation. John is the coauthor of three books on application security, *Building Secure Software* (Addison Wesley, 2001), *Network Security with OpenSSL* (O'Reilly, 2002) and the *Secure Programming Cookbook* (O'Reilly, 2003). He also built the CLASP application security process, which is available on-line. John's research areas have included application security, cryptography, programming languages and usability. He co-developed GCM, a mode of operation for block ciphers such as AES that has been incorporated into IPSec and the 802.1AE draft document, and is currently being standardized by NIST. Despite being cautious about embracing the open source security theory, John has been involved in many open source projects. He was the original author of the Mailman mailing list manager, and has been author or co-author of many other free projects, including RATS, SafeStr, XXL and ITS4. John wishes he had more time for his kids, bridge and baseball.

**Dr. Bret Michael** holds joint appointments as a Professor of Computer Science and Electrical & Computer Engineering. Bret joined the faculty of the Naval Postgraduate School in May 1998. Prior to joining NPS, he was an Assistant Research Engineer with the University of California at Berkeley (1994-1998), conducting research on automated vehicle control and safety systems for automated highway systems. He served as a Formal Methods Engineer for Argonne National Laboratory (1992-1993) and was a Member of the Research Staff at the Institute for Defense Analyses (1988-1992), in both positions conducting research on what was then known as the Strategic Defense Initiative (a.k.a. "Star Wars"). Bret's research centers on both building dependable distributed systems and assessing their trustworthiness. He has authored numerous papers on the topic of system of systems engineering and software engineering. He received his doctoral degree from the George Mason University Volgenau School of Information Technology in 1993.

**Dr. Samuel Keene** is a Six Sigma Senior Master Black Belt. He teaches Six Sigma initiatives via Black

Belts, Green Belts, Champions, and DFSS, both in hardware and software. He has mentored Six Sigma projects and certified new Black Belts and Green Belts. Sam is a recognized international resource in the R&QA field. He is a past president of the IEEE Reliability Society and a Fellow of the IEEE. He is recipients of numerous awards including the 1996 Reliability Engineer of the Year (IEEE), 1999 Allan Chop Education Award (ASQ) and 2000 IEEE Education Award. He has produced ten video tutorials on different aspects of software development, software reliability, and concurrent engineering and he has published over 150 technical papers and book chapters. His PhD is in Operations Research from the University of Colorado.

**Seating Space is Limited to 70 – Register TODAY. FINAL DEAD-LINE: MAY 25, 2007 – Students will have priority**

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Name \_\_\_\_\_

E-mail address \_\_\_\_\_

Affiliation:  EWU  Other University \_\_\_\_\_

Company/Organization \_\_\_\_\_

Student/Major \_\_\_\_\_  Faculty

I will attend  Morning Session (Viega)  Lunch  Afternoon Session (Michael)  Six-Sigma Workshop (Keene) (check all that apply)

*Mail, Fax or E-mail completed registration to: (Not Later than May 25, 2007)*

Dr. Christian K. Hansen

Vice-president, IEEE Reliability Society

Chair, Department of Mathematics

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(A confirmation including information on room arrangements will be sent by e-mail, please call if you do not receive confirmation by e-mail)