

**January 5, 2009 Trust and Dependability Workshop
HICSS**

9:00 – 9:15 **WELCOME AND OVERVIEW** - Dr. Jeffrey Voas, Science Applications International Corporation (moderator)

9:15 – 10:00 Dr. Bill Tonti, IBM “The Electrical Fuse: Chips that Heal Themselves“

10:00 – 10:45 Dr. Phil Laplante, Penn State University ”Architectural Security “

10:45 – 11:15 **BREAK**

11:15 – Noon Dr. Bret Michael, Naval Postgraduate School, “Are Governments Up to the Task?”

Noon – 1:00 **LUNCH**

1:00 – 1:45 Dr. Sam Keene, IEEE Fellow, “Six Sigma Contributions to System Safety “

1:45 -- 2:30 Dr. Keith Miller, U. of Illinois “Ethics in Software Trust” (cannot attend but he is providing his slides and voice over on them)

2:30 – 3:00 **BREAK**

3:00 -- 3:45 Dr. Mike Hinchey, University of Limerick, “You Can't Get There from Here! Problems and Potential Solutions in Developing New Classes of Complex Computer Systems“ (cannot attend but he is providing his slides)

3:45 – 4:30 Dr. Joseph Williams, Microsoft “Trust in Cloud Computing“ (cannot attend but he is providing his slides)

4:30– 5:00 **PANEL** – “Ask the Speakers Anything”

5:00 **ADJOURN**

SPEAKER BIOS

Phil Laplante is a professor of software engineering at Penn State's Great Valley Graduate Center. His interests are in requirements engineering, software testing, software project management, and open source software. Laplante has a PhD in computer science from Stevens Institute of Technology. He is a fellow of the IEEE and a member of the IEEE Computer Society's Board of Governor's and the Reliability Society's Administrative Committee

J. Bret Michael is a professor of computer science and electrical and computer engineering at the Naval Postgraduate School. His research addresses the reliability, safety, and security of distributed systems. Michael has a PhD in information technology from George Mason University. He is a member of the IEEE Computer Society Professional Practices Committee and Reliability Society Administrative Committee

Jeffrey Voas is Director of Systems Assurance at SAIC and is an SAIC Technical Fellow. Before joining SAIC, Voas was the Chief Scientist and Co-founder of Cigital. Voas has been highly active in the software engineering research community for over 18 years. He was the IEEE Reliability Society President for 2003, 2004, and 2005, and serves on the IEEE Computer Society's Board of Governors for 2008-2010. He co-authored two John Wiley books

Keith W. Miller is a professor of computer science at the University of Illinois at Springfield. His research interests include software testing, computer ethics, and online education. Miller is editor in chief of IEEE Technology and Society.

Joseph Williams is the Chief Technology Officer for Microsoft's Worldwide Enterprise Sales organization. Dr. Williams is accountable for Microsoft's technical strategy for enterprise customers and partners and he is the senior technical leader in Microsoft's technical sales organization. He provides insight to Microsoft technology leaders and orchestrates a dynamic roadmap that provides current and future business value for global enterprise businesses. Dr. Williams is also a member of the Board of Advisors to Microsoft's Certified Architect program. His responsibilities include optimizing the enterprise customer technical community. Prior to joining Microsoft in 2004 he managed the Advanced Internet Practice and then several key iPlanet Professional Services practices at Sun Microsystems. Dr. Williams was recognized as a Master Architect in the Software Services group and was promoted to Chief Technology Strategist for Sun Software Services.

Sam Keene is an IEEE Fellow, VP Technical Activities of the IEEE Reliability Society, Reliability Engineer of the Year in 1996, Six Sigma Master Black Belt, and co-developer of the Prism Reliability Prediction model, developer of the Keene Software Development Process Reliability Prediction Model.

Mike Hinchey is an [Irish](#) computer scientist and Co-Director at the Irish Software Engineering Research Centre [Lero](#), [University of Limerick](#), [Ireland](#).^[1]

Mike Hinchey studied at the University of Limerick as an undergraduate, [Oxford University](#) for his MSc and [Cambridge University](#) for his PhD.

Hinchey has been a promulgator of [formal methods](#) throughout his career, especially [CSP](#) and the [Z notation](#). He was Director of the Software Engineering Laboratory at [NASA Goddard Space Flight Center](#) and is the founding editor-in-chief of the [NASA](#) journal *[Innovations in Systems and Software Engineering](#)*, launched in 2005. He has held numerous visiting professorships and was at [Loyola College in Maryland, USA](#), before his current post. He is a Fellow of the [IET](#), a Fellow of the [IMA](#), and a Senior Member of the [IEEE](#).

Bill Tonti is a 1978 graduate of Northeastern University, holding an BS in Electrical Engineering. He joined IBM in Essex Junction Vermont where he is presently employed. Bill pursued an MS in Electrical Engineering from the University of Vermont, and MBA from St. Michael's College. He was selected to participate in the IBM Doctoral Resident Study program, where he completed a PhD in Electrical Engineering from the University of Vermont. In conjunction with, and subsequent to his role as a professional student Bill spent the majority of his career working on Advanced Dynamic Random Access Memory semiconductor technology development. Bill has published numerous contributed and invited papers, holds in excess of 190 patents, and he has chaired two IEEE major conferences. Bill has been a member of the Reliability Society ADCOM, serving as the 2005-2008 President. Dr Tonti was recently named an IBM Master Inventor and a fellow of the IEEE.