

Tuesday, 10 Nov - Morning

Name: Bill Curtis
Title: Senior Vice President and Chief Scientist
Company: CAST Software
Speech: The Challenge of Controlling Quality in Large, Multi-Tier IT Applications
Abstract:

Lack of control over the technical health of critical business applications creates business and financial risks that include application outages, security breaches, degraded performance, data corruption, and excessive ownership costs. The challenge of controlling internal quality is exacerbated by the multiple languages and technologies that are integrated into modern business applications whose different tiers include the user interface, business logic, and data management as well as interactions with legacy and enterprise resource systems. The most challenging problems are often hidden in the interaction among tiers and technologies. For this reason, application quality is a larger challenge than mere code quality. Non-functional defects lurking in these interactions often pass undetected through functional testing and create costly embarrassments during business operations. The path to controlling these challenges builds on the disciplined processes many organizations implemented during process improvement initiatives. However, these processes must be enhanced to control the architecture and internal 'engineering' of critical applications to reduce their costs and risks. An important enabler of this control is the ability to measure the quality of multi-tier applications across their component technologies and languages in order to identify pathological interactions and violations of coding standards. Since many large multi-tier applications are built by distributed or outsourced teams, the talk will also discuss how application quality measures are being used in supplier contracts to improve the quality of delivered applications as well as controlling spiraling outsourcing costs. Case studies will be presented documenting the cost savings that can be achieved when internal software quality is improved.

Bio:

Bill Curtis is Senior Vice President and Chief Scientist with CAST, a leader in measuring application software quality. He co-authored the Capability Maturity Model (CMM), the People Capability Maturity Model, and the Business Process Maturity Model. Until its acquisition by Borland he was Co-founder and Chief Scientist of TeraQuest, the global leader in CMM-based services. He is a former Director of the Software Process Program in the Software Engineering Institute at Carnegie Mellon University. He previously worked for MCC, GE, ITT, and the University of Washington. He has published four books, over 150 articles, and is an IEEE Fellow.



Tuesday, 10 Nov - Afternoon

Name: Joe Jarzombek
Title: Director for Software Assurance,
Company: National Cyber Security Division, Department of Homeland Security
Speech: Security-Enhanced Software and Systems Engineering: Mitigating Risks to the Enterprise

Abstract:

The National Cyber Security Division (NCSA) of the U.S. Department of Homeland Security works collaboratively with public, private, and international entities to secure cyberspace and America's cyber assets. To protect the cyber infrastructure, NCSA has identified two overarching objectives:

- To build and maintain an effective national cyberspace response system
- To implement a cyber-risk management program for the protection of critical infrastructure

In his role as Director for Software Assurance, Joe leads government interagency efforts with industry, academia, and standards organizations to shift the security paradigm away from patch management by addressing security needs in work force education and training, more comprehensive diagnostic capabilities, and security-enhanced development and acquisition practices.

In his keynote presentation, Joe Jarzombek will speak to the relevance of software security assurance in reducing organizational risk exposure. With today's global IT software supply chain, project management and software/systems engineering processes must explicitly address security risks posed by exploitable software. Traditionally, these disciplines have not clearly and directly focused on software security risks that can be passed from projects to the organization. Software security assurance processes and practices span development and acquisition and can be used to enhance project management and quality assurance activities. Joe will explain the critical need for adherence to the practices and principles used to build security into every phase of software development. He will discuss free resources that are now available to assist project and engineering personnel in managing contracted, outsourcing, and development activities.

Bio:

Joe Jarzombek is the Director for Software Assurance in the Department of Homeland Security (DHS) National Cyber Security Division. He leads public-private collaboration efforts for government interagency teams with industry, academia, and standards organizations to shift the security paradigm away from patch management by addressing security needs in work force education and training, and mitigating software supply chain risks through security-enhanced development and acquisition practices, and research and development efforts focused on maturing diagnostic capabilities to provide transparency for software and code behavior.

After retiring from the U.S. Air Force as a Lt. Col. in program management, Jarzombek worked in the cyber security industry as vice president for product and process engineering. He later served in two software-related positions within the Office of the Secretary of Defense prior to accepting his current position.

As a Project Management Professional (PMP) and Certified Secure Software Lifecycle Professional (CSSLP), Joe Jarzombek has spoken extensively on measurement, software assurance, and practices for security-enhanced acquisition and development. He encourages further participation in DHS-sponsored public-private software assurance efforts via the Software Assurance Forum, Build Security In website, and Community Resources and Information Clearinghouse.



Wednesday, 11 Nov - Morning

Name: Edy Liongosari
Title: Global Senior Director of System Integration Research
Company: Accenture Technology Labs
Speech: Four Key Technology Trends & their Business Implications
Abstract:

Four key technology trends – Internet computing, mobility, community-based online collaboration and data analytics – are defining the technology landscape, and along with it, how companies run their businesses, how individuals live, work and play. In this talk, Mr. Liongosari will describe these trends as well as three key influencers – millennials, security and sustainability. He will also discuss some early examples of how these trends are playing out in different industries.

Bio:

Edy Liongosari is the Global Director of System Integration Research in the Accenture Technology Labs. In this role, he is responsible for the overall vision and direction of the Lab's Software Development, Integration and Delivery R&D

globally. His team is in the midst of a 5-year journey to drive down Accenture's software development cost by 50%.

Prior to his current role, Edy lead Accenture's R&D efforts in Service-oriented Architecture (SOA) and Web services. He has been with Accenture for over 20 years and was involved in many large software development R&D projects including several multi-year initiatives sponsored by DARPA, US Air Force and NIST. Throughout the years, Edy and his team received numerous awards on innovation including Computerworld Smithsonian Award.

Edy's professional interests include collaborative software engineering, large scale development and maintenance of Web services and semantic data integration. He joined Accenture Technology Labs after graduating from Indiana University at Bloomington, Indiana with a Master's degree in Computer Science.

