

STC 2014 Schedule Map

PRESENTATIONS ARE COLOR-CODED BY TOPIC:

| | | | |
|----------------------------|--|---------------------------|-------------------------|
| Agile | Verification, Validation & Testing | Requirements/Architecture | Real World Applications |
| Model-Based Engineering | Software Assurance | Sponsored Track | Tutorials & Workshops |
| Cloud Computing & Big Data | Software Intensive Systems/Sustainment | Processes & Practices | |

Monday, 31 March

| TIME | Track 1 - Salon C | Track 2 - Salon D | Track 3 - Barcelona | Track 4 - Casablanca |
|---------------------|--|--|---------------------|----------------------|
| 7:00 AM - 8:00 AM | Continental Breakfast | | | |
| 8:00 AM - 9:45 AM | TUTORIAL Avoiding the Process Procrustean Bed: A Preview of the Incremental Commitment Spiral Model Book Barry Boehm, Jo Ann Lane, USC | TUTORIAL Agile Software Engineering: Interactive Workshop Steven Baynes, Northrop Grumman | | |
| 9:45 AM - 10:15 AM | Break | | | |
| 10:15 AM - 12:00 PM | (cont.) | (cont.) | | |
| 12:00 PM - 1:30 PM | Trade Show Opening w/ Lunch | | | |
| 1:30 PM - 3:15 PM | Opening General Session Welcome and Opening Remarks <i>Paul Croll, General Chair</i> Struggles at the Frontiers of Software Engineering <i>Paul Nielsen, SEI</i> Balancing a System's "ilities" <i>Barry Boehm, USC Center for Software Engineering</i> | | | |
| 3:30 PM - 4:15 PM | Trade Show | | | |
| 4:15 PM - 6:15 PM | Networking Session in Exhibit Hall (Trade Show) (Heavy Hors d'oeuvres) | | | |

Tuesday, 1 April

| TIME | Track 1 - Salon C | Track 2 - Salon D | Track 3 - Barcelona | Track 4 - Casablanca |
|---------------------|--|---|---|--|
| 7:00 AM - 8:00 AM | Networking Breakfast in Exhibit Hall (Trade Show) | | | |
| 8:00 AM - 9:30 AM | General Session The Big Deal About Big Data <i>Paul C. Zikopoulos, Vice President Big Data, IBM</i> Analyzing Engineering Process Data at Microsoft: What's the Opportunity? <i>Wolfram Schulte, Principal Researcher, Microsoft Research</i> | | | |
| 9:30 AM - 10:15 AM | Break in Exhibit Hall (Trade Show) | | | |
| 10:15 AM - 11:00 AM | Enabling Success via Applying Modern Software Engineering Processes, Methods and Technologies in the Rapid Acquisition of Operational Capabilities <i>Dr. Kenneth Nidjffer, SEI</i> | Defining and Verifying System Architectures using Model Based Executable Specifications <i>Pete Karousos, Lockheed Martin</i> | Rapid Deployment of Data Mining in Engineering Applications <i>Nikhil Dakwala, Broadcom Corporation</i> | A Quantitative Approach to Software Quality Evaluation <i>Scott Harmon and Michael Metz, Innovative Management Concepts, Inc.</i> |
| 11:15 AM - 12:00 PM | Adapting Agile Processes for Military Acquisition Programs <i>Nancy Markuson, MITRE Joleen Flasher, MITRE</i> | Design and Analysis of Trustworthy Embedded Systems: A Model-Driven Approach <i>Vahid Rajabian-Schwartz, U.S. Air Force William McKeever, U.S. Air Force</i> | Overcome Challenges of Deploying Cloud Technologies in Regulated Industries <i>Iyyappan Pandiyan, Beckman Coulter</i> | Bayesian Statistics for Complex Systems Safety Analysis <i>Yuning He, UC Santa Cruz Misty Davies, NASA Ames Research Center</i> |
| 12:00 PM - 1:30 PM | Lunch served in Exhibit Hall (Trade Show) | | | |
| 1:30 PM - 2:15 PM | Applying Agile Practices to Space Based Software Systems <i>Arlene Minkiewicz, Price Systems, LLC</i> | Value-Based Scheduling in System of Systems Evolution <i>Richard Turner, Stevens Institute of Technology</i> | Knowledge Management in Distributed Agile Projects: Techniques, Strategies and Challenges <i>Mohammad Abdur Razzak, Blekinge Institute of Technology</i> | A Practical Approach to Verification and Validation <i>David A. Cook, Stephen F. Austin Univ. Eugene Bingle, U.S. Navy</i> |
| 2:30 PM - 3:15 PM | Model-Driven Software Produces Truly Agile Solutions <i>Steve Kruba, Northrop Grumman</i> | Silverlining: A Cloud Forecaster Using Benchmarking and Simulation <i>Lawrence Chung, University of Texas at Dallas Nary Subramanian, University of Texas at Tyler Tom Hill, University of Texas at Dallas</i> | Creating Structure Out of Unstructured Big Data <i>Ronald Copfer, VeDISCOVERY, LLC Martin Mangan, VeDISCOVERY, LLC</i> | Revealing Usability Issues through Small-Scale, Colleague-Driven Heuristic Evaluations <i>Matt Hales, Northrop Grumman Michael Graham, Northrop Grumman</i> |
| 3:15 PM - 4:30 PM | Break in Exhibit Hall (Trade Show) (Closes at 4:30 pm) | | | |
| 4:30 PM - 5:15 PM | Plenary Principles and Practices of Reliable Software Development <i>Dr. Gerard J. Holzmann, NASA/JPL Laboratory for Reliable Software</i> | | | |

Wednesday, 2 April

| TIME | Track 1 - Salon C | Track 2 - Salon D | Track 3 - Barcelona | Track 4 - Casablanca |
|---------------------|--|--|--|---|
| 7:00 AM - 8:00 AM | Continental Breakfast | | | |
| 8:00 AM - 8:45 AM | Agile and CMMI®: Disciplined Agile with Process Optimization <i>Kent Johnson, AgileDigm, Incorporated</i> | GPS Control Segment Modernization – Acquisition of a Large Software Intensive System <i>Alexander Palack, The Aerospace Corporation</i> | Cloud Computing and Big Data. What's the Big Deal? <i>Arlene Minkiewicz, PRICE Systems, LLC</i> | Automating System Assurance: A Methodical Analysis Process from DODAF Models to Source Code <i>Nikolai Mansourov, KDM Analytics</i> <i>Ben Calloni, Lockheed Martin Aeronautics</i> |
| 9:00 AM - 9:45 AM | Enterprise Agile IT Requirements Management <i>Matthew Kennedy, Defense Acquisition University</i> | Disciplined Reuse Could Come to the Rescue for Army Common Operating Environment <i>Reed Little, SEI/ Carnegie Mellon University</i> | U.S. Treasury Offset Program - Transforming Your IT Project in the Cloud <i>Alyssa Reidl, U.S. Treasury</i> <i>Jon L. Gross, SEI/CMU</i> | Object-Oriented Programming for High-Integrity Systems: Avoiding the Vulnerabilities <i>Benjamin Brosgol, Adacore</i> |
| 9:45 AM - 10:15 AM | Break | | | |
| 10:15 AM - 11:00 AM | Mercury, Gemini, and Apollo: A Metaphor for Agile Development <i>Paul Walker, Lockheed Martin</i> | Enterprise Online Help for GCCS-J and JC2CU: An Example of Enterprise Software Engineering <i>Ross Adjel and Michael T. Nguyen, Northrop Grumman: Information Systems</i> | Supplementing Live Forensics with Traditional Forensics for Cloud Computing <i>Mohammed Younus Siddiqui, Mohammad Faizuddin Mohammad, and Ahmad Almulhem, King Fahd University of Petroleum and Minerals</i> | Early Lifecycle Security Risk Analysis <i>Carol Woody, SEI/CMU</i> |
| 11:15 AM - 12:00 PM | Measurement Standards for System 'ilities' <i>Marc Jones</i> <i>Bill Curtis</i> <i>Consortium for IT Software Quality</i> | Migrating a Large-Scale Legacy IT System to a System with Current Technology <i>William Wood, SEI/CMU</i> | Network Memory Globalization Framework Convention for Cloud Computing Environment <i>Chandarasgeran Natarajan, Wawasan Open University</i> | Software Assurance: The Necessary Evil of Safety/Security Critical Systems <i>Ben Calloni, Lockheed Martin</i> |
| 12:00 PM - 1:30 PM | Luncheon with Speaker Comprehensive Strategy to Address the Needs of Modern Complex Mission Critical Systems <i>Eddie Glenn, Wind River</i> | | | |
| 1:30 PM - 2:15 PM | Requirements Engineering Across the Life Cycle Continuum <i>Dick Fairley, Software Systems Engineering Associates</i> | Quantitative Prediction and Improvement of Program Execution <i>Shawn Rahmani, Boeing</i> | How Studying Video Games Helped One Team Design A Stronger Product <i>Brian Walker, Northrop Grumman</i> <i>Chris Heckler, Northrop Grumman</i> | The Security Architecture Discipline as Catalyst to Effect Secure Design: Employing Abuse Case Elaboration for Attack Vector Discovery and Countermeasure Determination <i>Murray Rosenthal, City of Toronto</i> |
| 2:30 PM - 3:15 PM | Near Real Time Certainty in Requirements Engineering <i>Dr. Suzanne Barber, AWARE Software</i> <i>Philip Hallenbeck, MITRE Corporation</i> | Web-Based Modules for Cyberphysical Systems Security <i>Janusz Zalewski, Florida Gulf Coast Univ.</i> <i>Bogdan Czejo, Fayetteville State Univ.</i> <i>Fernando Gonzalez, Florida Gulf Coast Univ.</i> <i>Andrew Karnecki, Embry Riddle Aeronautical Univ.</i> <i>Nary Subramanian, Univ. of Texas at Tyler</i> <i>Dawid Trawczynski, Advanced Micro Devices</i> | IT Affordability Analysis: The Role of Process, Cost and ROI Modeling In Improved IT Program Performance <i>Dan Galarath, Galarath, Inc.</i> | "Is the Two-Week Agile Sprint the Worst Software Idea Ever?": Management Issues in Software Assurance and Information Security <i>Girish Seshagiri, AIS</i> |
| 3:15 PM - 3:45 PM | Break | | | |
| 3:45 PM - 4:30 PM | A More Flexible Multi-Tenant SOA for SaaS <i>Eric Nielsen, CA Technologies</i> | Success in Software Project Management <i>Lawrence Peters, SCI Limited</i> | Is the Cost of Reliability, Maintainability, and Availability Affordable for Software Intensive Systems? <i>Myron Hecht, Aerospace Corporation</i> | Trending, Analysis, and Lessons Learned from Software Failures: Toward Extracting Knowledge from Anomaly Databases across NASA Using Machine Learning <i>Lucas Layman, Fraunhofer Center, UMD</i> <i>Davide Falessi, Fraunhofer Center, UMD</i> |
| 4:45 PM - 5:30 PM | New Task Model Elements for Complex User-Software Interactions <i>Neta Ezer, Northrop Grumman</i> <i>Peter Shimpeno, Northrop Grumman</i> | A Shared Understanding between Humans and Autonomous Cyber Collectives <i>Josef Schaff, U. S. Navy</i> | When Go-Live Falls Short: Lessons in How Software Engineering and Acquisition Best Practice Could Have Saved the Day <i>Patricia Oberndorf, SEI/CMU</i> <i>John Hawrylak, SEI/CMU</i> <i>Bryce Meyer, SEI/CMU</i> | Reconstruction of Common Weakness Enumeration <i>Yan Wu, University of Nebraska at Omaha</i> <i>Irena Bojanova, University of Maryland University College</i> <i>Yaacov Yesha, University of Maryland, Baltimore County</i> |
| 5:30 PM - 7:15 PM | Dinner with Speaker Bring Innovative, Safe, High-Quality Products to Market – Differentiated through Software <i>Prof. Dr. Bernd Hindel, CEO, Method Park Holding Ag</i> | | | |

Thursday, 3 April

| TIME | Track 1 - Salon C | Track 2 - Salon D | Track 3 - Barcelona | Track 4 - Casablanca |
|---------------------|--|---|--|--|
| 7:00 AM - 8:00 AM | Continental Breakfast | | | |
| 8:00 AM - 8:45 AM | <p>Using Cognitive Principles and Perceptual Processes to Guide Inform Interface Design</p> <p><i>Joan E. Dodson, Northrop Grumman</i> <i>Neta Ezer, Northrop Grumman</i></p> | <p>Managing Sustainment Costs through Planning on Lockheed Martin's C-130 Military Aircraft</p> <p><i>Steven Lincoln, Lockheed Martin</i></p> | <p>Evolving Postmortems as Teams Evolve Through TxP</p> <p><i>Brad Hodgins, U.S. Navy</i></p> | <p>In Pursuit of Secure Efficiency: Achieving Operational Agility and Fiscal Benefits Through Secure Multiple Classification Level Information Sharing</p> <p><i>Adam Firestone, WSO2 Federal Systems, Inc.</i></p> |
| 9:00 AM - 9:45 AM | <p>ARTAMIS: Open Source and Extensibility in an Embedded Mission System</p> <p><i>Alan Hohn, Lockheed Martin</i></p> | <p>Modifying Traditional Applications for more Cost Effective Deployment</p> <p><i>Eric Nielsen, CA Technologies</i></p> | <p>Improving the User Interface through Gestalt Design Principles</p> <p><i>Peter Shimpeno, Northrop Grumman</i> <i>Neta Ezer, Northrop Grumman</i></p> | <p>"This is NOT Your Mother's Ada" - A Brief Coverage of the Updated Ada 2012 Programming Language</p> <p><i>David Cook, Stephen F. Austin State Univ.</i> <i>Eugene Bingué, U. S. Navy</i></p> |
| 9:45 AM - 10:15 AM | Break | | | |
| 10:15 AM - 11:00 AM | <p>Lean Software Architecture for Automated Test Equipment</p> <p><i>Adem Aydin, IBM</i></p> | <p>Software Sustainment of Mission-Critical Systems: Wringing Value out of Legacy Assets</p> <p><i>Eric Velte, ASRC Federal Mission Solutions Engineering</i> <i>Scott Hind, ASRC Federal Mission Solutions Engineering</i></p> | <p>Leveraging Game Development Engines to Simulate Conceptual Systems</p> <p><i>Frederick Segrest, Northrop Grumman</i> <i>Joan Dodson, Northrop Grumman</i> <i>Michael Graham, Northrop Grumman</i></p> | <p>Agile Development in Support of DoD Information Assurance</p> <p><i>Keith Conway, Northrop Grumman</i></p> |
| 11:15 AM - 12:00 PM | <p>A Systems Architecture Approach to Complex Systems Using mDSM</p> <p><i>David Threm, Exelis</i> <i>Phillip Bercot, Indiana/Purdue University-Fort Wayne</i> <i>Srini Ramaswamy, ABB</i> <i>Mariafanna Milanova, University of Arkansas at Little Rock</i></p> | <p>The Software Engineering Competency Model (SECOM)</p> <p><i>Dick Fairley, Software Systems Engineering Associates (S2EA)</i></p> | <p>Command Graphs: A Significant Improvement to OOP/OOD</p> <p><i>Mark Overton, Northrop Grumman</i></p> | <p>Card-Sort Tutorial: Matching User Interface Content to Users' Mental Models</p> <p><i>Neta Ezer, Northrop Grumman</i> <i>Joan Dodson, Northrop Grumman</i> <i>Eleanor Barkley, Northrop Grumman</i></p> |
| 12:00 PM - 1:30 PM | <p>Luncheon with Speaker</p> <p>Development, Management, and Economics of Large-Scale Mission-Critical Systems <i>Richard W. Selby, Director of Engineering, Northrop Grumman Aerospace Systems</i></p> | | | |
| 1:30 PM - 2:15 PM | <p>Computing Advances for the Smart Grid Vision</p> <p><i>Steve Widergren, Pacific Northwest National Laboratory</i></p> | <p>dbcet: Object-Oriented Design by Contract with Declarative Bounded Exhaustive Testing</p> <p><i>Christopher Coakley, UC Santa Barbara</i> <i>Peter Cappello, UC Santa Barbara</i></p> | <p>Hybrid Hardware/Software Synergism</p> <p><i>Patrick Burke, University of North Texas</i> <i>Philip Sweany, University of North Texas</i></p> | <p>Application of Computer Intelligence to Forecasting in the Banking Environment</p> <p><i>Angel Kuri-Morales, ITAM</i></p> |
| 2:30 PM - 3:15 PM | <p>MobileCare: A Mobile Device Connectivity Solution</p> <p><i>Pankaj Sinha, Deloitte Consulting LLP</i> <i>Geetika Tandon, Deloitte Consulting LLP</i> <i>Subramanyam VSS Budama, Deloitte Consulting LLP</i></p> | <p>Software Implementation to Reduce the Impact of Interface Revision</p> <p><i>Gerry Tyra, Lockheed Martin</i></p> | <p>"If it Passes Test, it Must be OK" - Common Misconceptions and the Immutable Laws of Software Development</p> <p><i>Girish Seshagiri, AIS</i></p> | <p>The Application of a Business Intelligence Tool for Strategic Planning in a Higher Education Institution: A Case Study of the University of the Witwatersrand</p> <p><i>Vincent Nyalungu, Univ. of South Africa</i></p> |
| 3:15 PM | Conference Closes -- See You At STC 2015 | | | |