



Software Test & Evaluation Summit/Workshop
Reston, VA
September 15-17, 2009
Speaker & Panelist Biographies

Chris DiPetto

Acting Director, Developmental Test and Evaluation



Mr. DiPetto was appointed to the Senior Executive Service in 2006. He currently serves as the Acting Director, Developmental Test and Evaluation (DT&E) within the Office of the Secretary of Defense (OSD) with responsibility for oversight of 180+ major weapons systems developmental test and evaluation programs as well as the functional advisor for the T&E acquisition career field.

Mr. DiPetto is the principal advisor to the Secretary of Defense and the Under Secretary of Defense (AT&L) on DT&E. His primary responsibility is to ensure that DT&E programs are sound, well executed, and our systems perform as designed to meet the needs of the warfighter. This includes approval of Test and Evaluation Master Plans, monitoring program test status, and providing technical assessments to decision-makers. He participates in Overarching Integrated Product Teams, Defense Acquisition Executive Summary Reviews and Defense Acquisition Executive Reviews. Additionally, he is responsible for reviewing and implementing DT&E policy and ensuring Service programs are in compliance with this policy and Congressional directives.

Mr. DiPetto has over 29 years of experience in the Department of Defense. Prior to assuming his current position, he served as Special Assistant to the Director of Defense Systems in OSD with responsibilities for Congressional matters, Planning, Programming, Budgeting and Execution; Acquisition oversight and other Departmental processes. Previous jobs in OSD included assignments as staff specialist for Naval Weapons (submarine and surface launched tactical weapons including: Harpoon, the Vertical Launched Anti-Submarine Rocket, the MK-48 and MK-50 torpedoes, the Rolling Airframe Missile, and the Phalanx Close-in Weapon System) and staff specialist for Strategic and Tactical Airlift Programs (C-17, C-5, C-130).

Mr. DiPetto obtained his program management experience during a 5-year tour with the Naval Air Systems Command, Cruise Missiles Project. Initially, as a flight test manager, he planned and executed launch operations for over 20 Tomahawk flight tests. Later, as the head of T&E Plans and Programs, he had broad responsibility for test planning, resource development and budgeting for all Tomahawk variants.

Mr. DiPetto began his career as an aerospace engineer at the Navy's Pacific Missile Test Center. Assigned as flight test engineer for surface and subsurface launched missile systems, he qualified as flight crew in tactical aircraft, performing airborne engineering duties for missile systems development and operational testing, designed fleet over the horizon targeting exercises, and directed test launch firings.

Hailing from Long Island, New York, he earned a Bachelor of Science from the New York Institute of Technology in 1979. A graduate of the US Naval Test Pilot School, he concentrated in airborne systems engineering and performance testing and logged over 130 hours in a variety of US Navy fixed and rotary



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wing aircraft. Additionally, he is a 1994 graduate of the Harvard Kennedy School of Government, Senior Executive Fellows program; a 1993 graduate of the Defense Systems Management College's Program Management Course; and a Level III certified acquisition and T&E professional.

Ms. Kristen J. Baldwin
Director, Systems Analysis, ODDR&E Systems Engineering



Ms. Kristen Baldwin serves as Director for System Analysis in the Office of the Director, Defense Research and Engineering. Ms. Baldwin oversees Development Planning and Modeling and Simulation activities for the DDRE, and leads cyber and system assurance, program protection, systems engineering for systems of systems, early SE, and research and development initiatives for the Department. She co-leads with the National Security Agency the Systems Engineering Research Center, DoD's University Affiliated Research Center dedicated to research to advance systems engineering methods, processes, and tools.

She has been with OSD since 1998, where she has led the application of capabilities-based planning in the acquisition process, with a focus on the integration of requirements, acquisition, and programming processes; served as Deputy Director, Software Intensive Systems; and managed the Tri-Service Assessment Initiative, conducting over 50 software assessments of defense acquisition programs. Prior to OSD, Ms. Baldwin served as a Science and Technology Advisor in the Army's Office of the Deputy Chief of Staff for Operations and Plans, and at the Dismounted Battlespace Battle Lab, Fort Benning, GA. Ms. Baldwin began her career at the US Army's Armament Research, Development, and Engineering Center, Picatinny Arsenal, and is an expert in infantry weapons and munitions.

Ms. Baldwin received a Bachelor's degree in Mechanical Engineering from Virginia Tech and a Masters in Systems Management from Florida Tech. She is a two time recipient of the Secretary of Defense Medal for Exceptional Civilian Service.

Ernest A. Seglie, PhD
Grade/Rank: ST 1301
Science Advisor, Office of the Secretary of Defense, Directorate of Operational Test and Evaluation



CURRENT ASSIGNMENT: 1988 to Present: Dr. Seglie is Science Advisor, Operational Test and Evaluation, Office of the Secretary of Defense. He provides scientific and technical guidance on the overall approach to Department of Defense (DoD) evaluation of the operational effectiveness and suitability of major DoD weapon systems; provides technical review of test reports; and serves as chief technical advisor to the Director, DOT&E.



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PAST EXPERIENCE:

- 1979-1988: Institute for Defense Analyses, Research Staff/Project Team Leader, Alexandria, VA
- 1975-1979: Yale, Post Doctoral Fellow/Instructor, New Haven, CT
- 1973-1975: Rensselaer Polytechnic Institute, Post Doctoral Fellow, Troy, NY

EDUCATION:

- B.S., The Cooper Union for the Advancement of Science and Art, New York, NY
- Ph.D. in Physics, University of Massachusetts, Amherst

Mr. Bruce Casias
Sr. Test Engineer



Mr. Casias works in the Test Engineering Department for the Raytheon Intelligence and Information Systems in Aurora, Colorado Division in the area of Process Development and Program Test Engineering support. He has over two decades of experience in Spacecraft and Ground Segment; System, Design and I&T Engineering. He holds a BS in Electrical Engineering from the University of New Mexico and a BS in Physics and Applied Science from Pacific University in Oregon.

Edgar Doleman
CSC SW Test Architect

Mr. Doleman has over 20 years of experience in software testing methodologies and test automation. He has served as a Software Test Architect and has supported IRS PRIME testing projects with testing metrics, processes, and test automation, including the analysis of current processes, developing recommendations for change and consolidation of processes, procedures, testing tools, and testing measurement.

Mr. Doleman has led the development of test automation processes, assisted projects with assessments of automation potential, and in selecting automation approaches and technology, developing and implementing test automation plans, and service oriented architecture testing. He has also been instrumental in the development and implementation of a Software Test Automation Methodology Toolkit.



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Mr. Tom Wissink
LM Fellow



Mr. Wissink has worked for Lockheed Martin (LM) developing and testing software intensive systems for 29 years. He has worked on programs like the Space Shuttle, several Air Forces Satellite Command and Control Centers, the Global Positioning System and the Hubble Telescope Project. In December 2005 Tom was awarded a Lockheed Martin Fellow position specializing in software intensive integration and testing. Tom is also a LM Corporate member of the National Defense Industrial Association (NDIA) co-chairing the DT&E Committee. Tom also co-chairs the LM Engineering Process Improvement T&E Subcouncil. He has been a presenter at the Aerospace Testing Seminar and the NDIA SE Division Conference as well as a Keynote Speaker at STAREAST 2008. He has a Bachelors degree in Computer Science from Florida Atlantic University.

Paco Hope
Technical Manager, Cigital



Mr. Hope has 12 years of experience in the security of gaming systems (lottery systems, online gaming, casino gaming devices), web applications, operating systems, and embedded devices (e.g., mobile phones, smart cards). As a consultant, his customers include MasterCard International, WMS Gaming, GTECH, FINRA (the US securities exchange regulator) and Sterling Commerce (an AT&T Company). Paco leads Cigital's efforts in online gaming security, including random number generator (RNG) certification and the SafeBet™ online gaming security certification. He co-authored the Web Security Testing Cookbook and Mastering FreeBSD and OpenBSD Security, both published by O'Reilly and Associates. Paco is also a prior co-chair of VERIFY, an international conference on software testing.

Dr. Cem Kaner
Professor, Florida Institute of Technology



Dr. Kaner has pursued a multidisciplinary career centered on the theme of the satisfaction and safety of software customers and software-related workers. With a law degree (practice focused on the law of software quality), a doctorate in Experimental Psychology, and 17 years in the Silicon Valley software industry, Dr. Kaner joined Florida Institute of Technology as Professor of Software Engineering in 2000. Dr. Kaner is senior author of three books: *Testing Computer Software* (with Jack Falk and Hung Quoc Nguyen), *Bad Software* (with David Pels), and *Lessons Learned in Software Testing* (with James Bach and Bret Pettichord). At Florida Tech, his research is primarily focused on the question, *How can we foster the next generation of leaders in software testing?* See



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TestingEducation.org for some course materials and [this Proposal](#) to the National Science Foundation for a summary of the course-related research.

Dr. Adam Kolawa
CEO, Founder of Parasoft



Dr. Kolawa holds a PhD in theoretical physics from the California Institute of Technology, and has been granted 16 patents for his recent inventions. In 2001, he was awarded the Los Angeles Ernst & Young's Entrepreneur of the Year Award in the software category. In 2007, eWeek recognized him as one of the 100 Most Influential People in IT.

Dr Kolawa is the coauthor of *Bulletproofing Web Applications* (Hungry Minds, 2001) and *Automated Defect Prevention: Best Practices in Software Management* (Wiley, 2007). He has contributed to and written over 100 commentary pieces and technical articles for publications such as the Wall Street Journal, CIO, Computerworld, Dr. Dobb's Journal, and IEEE Computer. He is the author of numerous scientific papers on physics and parallel processing. Kolawa's work has been featured on CNN, CNBC, BBC, and NPR.

Parasoft is a respected global provider of software solutions and services that help organizations deliver better business applications faster by establishing quality as a continuous process throughout the software development life cycle. Based in Monrovia, California, Parasoft has offices in New York, London, Tokyo, and Shanghai.

Mr. Rex Black
President of RBCS



With a quarter-century of software and systems engineering experience, Rex Black is President of RBCS (www.rbc-us.com), a leader in software, hardware, and systems testing. For over fifteen years, RBCS has delivered services in consulting, outsourcing and training for software and hardware testing. Employing the industry's most experienced and recognized consultants, RBCS conducts product testing, builds and improves testing groups and hires testing staff for hundreds of clients worldwide. Ranging from Fortune 20 companies to start-ups, RBCS clients save time and money through improved product development, decreased tech support calls, improved corporate reputation and more.

As the leader of RBCS, Rex is the most prolific author practicing in the field of software testing today. His popular first book, *Managing the Testing Process*, has sold over 35,000 copies around the world, including Japanese, Chinese, and Indian releases, and is now in its third edition. His five other books on testing, *Advanced Software Testing: Volume I*, *Advanced Software Testing: Volume II*, *Critical Testing Processes*, *Foundations of Software Testing*, and *Pragmatic Software*



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Testing, have also sold tens of thousands of copies, including Hebrew, Indian, Chinese, Japanese and Russian editions. He has written over thirty articles, presented hundreds of papers, workshops, and seminars, and given about fifty keynotes and other speeches at conferences and events around the world. Rex is the immediate past President of the International Software Testing Qualifications Board and a Director of the American Software Testing Qualifications Board

Mr. Hung Nguyen
CEO, President, and Founder of Logigear



Mr. Hung Nguyen is responsible for the company's strategic direction and innovative approach to software testing, test automation, testing technology and education programs. Mr. Nguyen is author/coauthor of *Testing Computer Software* (Wiley, 2nd ed.), *Testing Applications on the Web* (Wiley, 1st and 2nd ed.) and *Global Software Test Automation* (HappyAbout).

LogiGear is a world leader in high-volume software test automation production, serving hundreds of companies, from Fortune 500 to startups; drawn from 15+ years of research and practice, 5 books, including one bestseller, 18 pragmatic training courses, a proven automation methodology and a software framework that elevates automation test coverage to 95% on a diverse set of technology platforms, and 400+ skilled engineers in the US and Vietnam, it delivers unbeatable value that precisely meets each customer's specific needs. Prior to LogiGear, he held leadership roles in software development, quality, and product and business management at Silicon Valley companies including Electronic Arts, Palm Computing, Spinnaker and PowerUp. He also teaches software testing at LogiGear University, at the University of California Berkeley Extension and Santa Cruz Extension in San Francisco and Silicon Valley.

Mr. Nguyen received a B.Sc. in Quality Assurance from Cogswell Polytechnical College, completed a Stanford Graduate School of Business Executive Program, is an American Society for Quality Certified Quality Engineer and a co-founder of the Association for Software Testing, a nonprofit professional organization dedicated to advancing the understanding and practice of software testing.



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Rick Kuhn

Computer Scientist, National Institute of Standards and Technology



Rick Kuhn is a computer scientist with the National Institute of Standards and Technology. He has published more than 70 papers on information security, empirical studies of software failure, and software assurance, currently focusing on combinatorial testing. He co-developed the role based access control model (RBAC) used throughout industry and led the effort to establish RBAC as an ANSI standard. He received an MS in computer science from the University of Maryland College Park, an MBA from William & Mary, and is a senior member of the Institute of Electrical and Electronics Engineers (IEEE).

Dr. James J. Streilein

Executive Technical Director/Deputy to the Commander, US Army Test and Evaluation Command



Dr. Streilein entered his current position in April 2007. As the Executive Technical Director/Deputy Commander, U.S. Army Test and Evaluation Command, provides oversight and technical direction to all command efforts to include testing, evaluation, modeling and simulation, and instrumentation. Serves as Commander in the absence of the Commanding General. Serves as Army member of Technical Advisory Board for Joint Test and Evaluation and is directly responsible for the Army Quick Reaction Team's work. ATEC is a multi-billion dollar command with over one-third of all Army land and is currently conducting developmental tests, operational tests, Live Fire tests, and field data collection on over 400 systems in normal acquisition and over 200 systems in rapid acquisition. Represents ATEC in dealings with Program Managers, Program Executive Officers, Department of the Army, other services, Joint Improvised

Explosive Device Defeat Organization, Office of the Secretary of Defense, Defense Science Board, Army Science Board, National Defense Industrial Association Committee on Operational Test and Evaluation, etc.

In September 1999, the Army reorganized test and evaluation and Dr. Streilein was selected as the first Director of the newly formed Army Evaluation Center of the Army Test and Evaluation Command. The Army Evaluation Center is the Army's lead for its technical and operational evaluation mission. In the



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1996 reorganization of Army test and evaluation, Dr. Streilein was selected as the first Director of the Evaluation Analysis Center of the Operational Test and Evaluation Command. Dr. Streilein became a member of the Senior Executive Service in August 1991 upon selection as the Chief, Reliability, Availability, and Maintainability Division of the U.S. Army Materiel Systems Analysis Activity.

Career Chronology:

- From 1974 to 1996 Dr. Streilein was employed at the U.S. Army Materiel Systems Analysis Activity in a variety of technical and managerial positions.

College:

- PhD, Mathematics, Pennsylvania State University, State College, PA
- BS, Mathematics, Carnegie Mellon University, Pittsburgh, PA, 1969 (Army Reserve Officers Training Corps Distinguished Military Graduate)

Significant Training:

- Army Logistics and Acquisition Management Program, 1990
- Federal Executive Institute, 1988
- Signal Officers Basic Course, Fort Gordon, GA, 1974 (Honor Graduate)

Certifications:

- Level III, Test and Evaluation, and Systems Engineering, 1994, Army Acquisition Corps

Awards and Honors:

- Presidential Rank Award – Meritorious Executive, 2005
- Decoration for Meritorious Civilian Service 1987 and 2007
- Army Superior Unit Awards, 2000 and 2004

Professional memberships and associations:

- International Test and Evaluation Association
- Association of the United States Army
- National Defense Industries Association



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Dr. Steven J. Hutchison

Test and Evaluation Executive (TE), Defense Information Systems Agency



Dr. Hutchison assumed the duties as the T&E Executive in August 2005. As the T&E Executive, Dr. Hutchison establishes T&E policy and procedures and represents DISA to the DoD T&E community. Dr. Hutchison directs the activities of the T&E Management Center, which provides direct support to DISA programs and oversees investment funding for the IT testbed in the Major Range and Test Facilities Base (MRTFB). DISA TE provides the infrastructure and test environments to support life-cycle testing of net-centric warfare systems and services. Prior to his arrival in DISA, Dr. Hutchison served in the office of the Director, Operational Test and Evaluation (DOT&E), OSD, as a Net-Centric Warfare Systems Analyst. While in DOT&E he had oversight responsibilities for several of the major warfighting information systems in DOD, including the Global Command and Control System – Joint (GCCS-J), the Service variants of the Distributed Common Ground/Surface System, and the Net Enabled Command Capability

(NECC).

From July 1998 to January 2004, Dr. Hutchison served in the Army Test and Evaluation Command (ATEC). While in ATEC, Dr. Hutchison served as the military evaluator for the Force XXI Battle Command Brigade and Below (FBCB2) system, the centerpiece of the Army's "digitization" effort. The evaluation required development of a system-of-systems test approach, encompassing critical interoperability with the Army Battle Command Systems. Dr. Hutchison also served as the ATEC Assistant Technical Director, where he led the operational assessment of the Blue Force Tracking system to support Operation Enduring Freedom and Operation Iraqi Freedom.

Dr. Hutchison retired from the US Army in 2002. His military career highlights include assignments in ATEC, an Assistant Professorship in the Department of Mathematics at the United States Military Academy, and assignments with the 82nd Airborne Division and 3rd Infantry Division. Dr. Hutchison was commissioned in the Infantry in 1982.

Dr. Hutchison is a 1982 graduate of the United States Military Academy, earned a Master of Science in Operations Research at the US Naval Postgraduate School in 1991, and a PhD in Industrial Engineering at Purdue University in 1998.