

## Speaker Biographies

**Barry Boehm** served within the U.S. Department of Defense (DoD) as director of the DARPA Information Science and Technology Office and as director of the DDR&E Software and Computer Technology Office. He worked at TRW, culminating as chief scientist of the Defense Systems Group, and at the Rand Corporation, culminating as head of the Information Sciences Department.

His current research interests include software process modeling, software requirements engineering, software architectures, software metrics and cost models, software engineering environments, and knowledge-based software engineering. His contributions to the field include the Constructive Cost Model (COCOMO), the Spiral Model of the software process, the Theory W (win-win) approach to software management and requirements determination and two advanced software engineering environments: the TRW Software Productivity System and Quantum Leap Environment.

**Ed Colbert** is the director of the USC Software Engineering Certificate Program and a lecturer in the USC Computer Science Department. He is a contributor to the Model-Based Software Engineering (MBase) method of the USC Center for Software Engineering. Ed has been teaching object-oriented methods, software engineering, and the Ada, C++, and Java programming languages since 1982, and since 1986 consulting as well. He is consulting on the definition of the Architecture Design Language (ADL) for real-time, safety-critical systems based on the Unified Modeling Language ("UML"), and Honeywell's MetaH; the ADL will be proposed as the standard of Society of Automotive Engineers (SAE). He created the Colbert Object-Oriented Software Development method ("OOSD"), which supports analysis and design for implementation in languages such as Ada, C++, and SmallTalk. NASA Langley Research Center used OOSD for a Software Engineering Process manual, choosing OOSD partly for its strength in real-time software development. Clients of Ed's company Absolute Software include Aonix, Computer Science Corporation, TRW, Lockheed Martin, e-SIM, KPMG Peat Marwick, and Honeywell. Ed has delivered presentations at the International Conference on Reliable Software Technologies (Belgium, 2001), TOOLS (California, 2000), Ada Europe (England, 1997), TRI-Ada (1996, '95), UNICOM (England, 1993), OOPSLA (D.C., 1993), ObjectExpo (New York, 1993), ObjectExpo Europe (England, 1992), TRI-Ada (Florida, 1992), LOOK (Denmark, 1992), OOP (Germany, 1992), and SCOOP Europe (England, 1991). He is a graduate of the University of Michigan (M.S. Computer & Communication Sciences, 1981; B.S. (honors) Chemistry and Biology, 1979).

**Peter Hantos** is Manager, Process Technology at Xerox, facilitating the achievement of higher levels of process maturity in the Office Systems Group. Prior positions included Department Manager for Software Engineering Excellence covering SQA, SPI, System and Reliability Testing in one of the Group's Business Unit. Earlier, as Principal Scientist, at the Xerox Corporate Engineering Center, he authored the Time To Market Software Subprocess and Software Technology Readiness processes. He started his professional career in the US as Visiting Professor at the Computer Science Department of the University of California, Santa Barbara. Dr. Hantos is a Member of ACM, Senior Member of the IEEE, and holds M.S. and Ph.D. degrees in Electrical Engineering from the Budapest Institute of Technology, Budapest, Hungary.

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**LiGuo Huang**, Ph.D. student, Computer Science Department, University of Southern California, advisor is Prof. Barry Boehm. LiGuo Huang received her B.S. degree in Engineering Management from HoHai University, China in 1996, and her M.S. degree in Computer Science from University of Southern California in 2001. She is currently a Ph.D. student in the Computer Science Department, USC, and working as a research assistant in the Center for Software Engineering, USC. Her current research interests focus on software system's SAIV/CAIV/SCQAIV process model and economic-driven software engineering.

**Andy C. Lay** is the Deputy Chief Engineer of the F-16 program for Lockheed Martin Aeronautics Company in Fort Worth, TX. He has recently completed an assignment as senior manager of the 580-member software development team responsible for F-16 avionic software development for all US Air Force configurations and nearly all foreign configurations. The development efforts ranged from negotiating man-machine requirements, airborne and ground software development, lab integration and flight test. Mr. Lay has over 23 years experience in developing and managing real-time, embedded, command & control software. He holds a BS degree in engineering from Princeton University, 1978, where he studied electrical engineering and computer science. He earned a MS in engineering from Southern Methodist University, 1987, where he majored in computer science.

**Charles Leinbach** is the Managing Partner of Freshwater Partners, an education and consulting firm that helps companies align technology to meet their business goals through best practice processes. Mr. Leinbach is a seasoned process architect who has assisted scores of companies drive business results through the application of integrated technology and business processes. Through his tenures at consulting firms such as DMR, Monitor Company and C-bridge Internet Solutions, he has built high-impact delivery organizations that have enhanced companies' abilities to deliver software in industries such as telecommunication, manufacturing, finance, legal and healthcare.

Mr. Leinbach lectures on the topics of the software development process and new product introduction. He has consulted worldwide to companies such as Arcelik, AT&T, Bell South, Britannia Building Society, Cardinal Health, Chevron, Economical Insurance Group, Joy Industries, Motorola, Movicom, Northern Telecom, Seagate, and Telefonica.

**Daniel N. Port** is a grizzled veteran in the computing industry with over 15 years professional and academic computing experience and is currently a Research Assistant Professor of Software Engineering at the University of Southern California. Previously he served as the director technology at EC2, the Multimedia Business Incubator Project at the Annenberg Center for Communications at USC. Prior to that, he tenured at NeXT Computer, Inc. He has extensive entrepreneurial experience founding and participating in several technology startup companies. He has consulted on and developed numerous software and hardware applications, both commercial and mission critical. His current research interests are in strategic software engineering helping answer "how much is enough?" development questions.

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Daniel received his Ph.D. in Applied Mathematics and Theoretical Computer Science from Massachusetts Institute of Technology, where he specialized in combinatorics, probability, as well as software architectures and numerical algorithms.

**Marija Mikic-Rakic** is a graduate research assistant in the Computer Science Department at the University of Southern California (USC). She received her M.S. in 2001 from the Computer Science Department at USC. She also received an a B.S. in Computer Engineering from School of Electrical Engineering, University of Belgrade, Yugoslavia in 1997. She is a member of the Association for Computing Machinery (ACM). Her research interests are in the field of software architectures. Specifically, she is working on architectural styles and middleware support for highly-distributed, highly-mobile, and resource constrained systems. Her advisor is Professor Nenad Medvidovic.

**Ben Shulman** has been involved in commercial software development for over 20 years, as programmer, manager, entrepreneur, and consultant. He also has training and a background in psychology and organization development, with a focus on the dynamics of small work groups.

**Ricardo Velerdi** is a Systems Engineer at Motorola's Radio Networks Division. He specializes in the design of mission-critical Public Safety Communication systems. His customers include LAPD, Orange County Sheriff, and MTA. Previously, he worked at General Instrument Corporation in the digital video System Integration & Test Lab in San Diego, CA.

Ricardo is a member of the IEEE, INCOSE, and PMI. He received his BS/BA in Electrical Engineering from the University of San Diego. In May, he will be completing his MS in System Architecting and Engineering at USC.

Ricardo is a jazz drummer and recently recorded his third full album. He has performed on VH1, LA Convention Center, and has recorded at SONY Studios.

**Laurie Williams** received her undergraduate degree in Industrial Engineering from Lehigh University. She also received an MBA from Duke University and a PhD in Computer Science from the University of Utah. Prior to returning to academia to obtain her PhD, she worked in industry, at IBM, for nine years. Dr. Williams is recognized as an expert in pair programming, where two programmers work together at one computer. In 2001, she was a founder and program chair of the first North American conference on agile software development methodologies, XP Universe. She is the program chair for this year's joint conferences, XP Universe and Agile Universe, which will take place in Chicago this August.