

NSS2 SPEAKER BIOGRAPHIES

PHILLIP BOND

Phillip J. Bond was sworn in as Under Secretary of Commerce for Technology on October 30, 2001. He was nominated by President George W. Bush on September 4, and confirmed by the United States Senate on October 23, 2001. From January 2002 through January 2003, Bond served concurrently as Chief of Staff to Commerce Secretary Don Evans. In his dual role, Bond worked closely with the Secretary to increase market access for US goods and services and further advance America's technological leadership at home and around the world.

Under Secretary Bond serves as the principal advisor to Secretary Evans on science and technology policy to maximize technology's contribution to America's economic growth. In this context, Mr. Bond's primary responsibilities are to supervise policy development and direction among the Office of Technology Policy (OTP), the National Institute of Standards and Technology (NIST), and the National Technical Information Service (NTIS). He also serves on four committees of the President's National Science and Technology Council (NSTC), a Cabinet-level council established by the President to coordinate science, space, and technology policy within the Federal research and development enterprise.

One of Mr. Bond's top priorities has been to transform the Technology Administration into the pre-eminent portal between the federal government and the U.S. technology industry. In that regard, he directs TA efforts to advocate on behalf of U.S. technology in the federal policy-making process. Some of the high priority issues that he is involved in include support for American innovation and entrepreneurship; the converging fields of nanotechnology, biotechnology, information technology and the cognitive sciences; strengthening U.S. technology cooperation with other countries, especially in areas such as standards development; education and training of a high tech U.S. workforce; and an array of issues of concern to the telecommunications and information technology industries.

Mr. Bond was recognized in *Scientific American* Tech Leaders of 2003 (December 2003) for promoting nanotechnology effectively within the executive branch. His experience in the private sector includes serving as Director of Federal Public Policy for the Hewlett-Packard Company, a position he held immediately before joining Commerce, and previously serving as Senior Vice President for Government Affairs and Treasurer of the Information Technology Industry Council. From 1993 to 1998, Phil Bond served as Chief of Staff to Congresswoman Jennifer Dunn (R-WA). He was Principal Deputy Assistant Secretary of Defense for Legislative Affairs from 1992 to 1993 for then-Defense Secretary Dick Cheney. Earlier, he was Chief of Staff and Rules Committee Associate for Congressman Bob McEwen (R-OH) from 1990 to 1992. From 1987 to 1990, he served as Special Assistant to the Secretary of Defense for Legislative Affairs.

He is a graduate of Linfield College in Oregon.

JOHN CHEN

Mr. Chen, chairman, CEO, and president of Sybase, is known globally as a technology industry leader, corporate turnaround specialist, and uncommonly well-informed voice on relations between the U.S. and China. Since 1997, when the company was at its lowest ebb and Mr. Chen was recruited as president, Sybase has posted 25 consecutive profitable quarters, made significant acquisitions, and launched several successful subsidiaries. Sybase is now firmly established as the industry leader in providing the critical information management and mobility software necessary to unwire the enterprise.

Mr. Chen is also deeply concerned with international relations, particularly between the U.S. and China. He was among the first American business executives to argue in favor of permanent normalized trade relations with China. In January of 2004, Mr. Chen was elected to the board of directors of the Disney Corporation. Mr. Chen is a board member of the U.S. Chamber of Commerce, the vice chairman of the Committee of 100 and a member of the Council on Foreign Relations.

LARRY DRUFFEL

Larry Druffel is President and CEO of SCRA, a public, non-profit research and development corporation engaged in the application of advanced technology. He is chairman of the Board of Directors of the Advanced Technology Institute and member of the Board of Directors of Teknowledge Corporation.

He was the director of the Software Engineering Institute at Carnegie-Mellon from 1986-1996, where he initiated the Computer Emergency Response Team (CERT) in 1987. Before joining the SEI, he was vice president for business development at Rational Software. He served on the Board of Directors of Rational from 1986-1995.

Druffel was on the faculty at the USAF Academy. He later managed research programs in advanced software technology at DARPA. He was founding director of the Ada Joint Program Office, then served as director of Computer Systems and Software (Research and Advanced Technology) in the Office of the Secretary of Defense.

He is the coauthor of a computer science textbook and over 35 professional papers. He has a BS in electrical engineering from the University of Illinois, an MSc in computer science from the University of London, and a PhD in computer science from Vanderbilt University.

Druffel is a fellow of the IEEE, and a fellow of the ACM. He has served on Engineering Advisory Boards of the University of South Carolina, Clemson and Embry Riddle University.

He chaired the AF Science Advisory Board Study on Information Architecture and co-chaired the Defense Science Board study on Acquiring Defense Software Commercially. He led the Defensive Information Warfare Panel for the AFSAB "New World Vistas". He authored the Chapter on Information Warfare for the ACM Fiftieth Anniversary Book "Beyond Computing". He has served on numerous AFSAB, DSB, and NRC studies dealing with the use of information technology for defense.

WATTS HUMPHREY

Watts S. Humphrey founded the Software Process Program of the Software Engineering Institute (SEI) at Carnegie Mellon University. He is a Fellow of the Institute and is a research scientist on its staff. From 1959 to 1986 he was associated with IBM Corporation where he was director of programming quality and process.

His publications include many technical papers and nine books. His most recent books are "Winning with Software: An Executive Strategy" (2001), "Managing the Software Process" (1989), "A Discipline for Software Engineering" (1995), "Managing Technical People" (1996), "Introduction to the Personal Software Process" (1997), and "Introduction to the Team Software Process" (2000).

Mr. Humphrey holds five U.S. Patents. In 1991 he served on the Board of Examiners for the Malcolm Baldrige Board of Examiners National Quality Award. He holds a bachelor's degree in physics from the University of Chicago, a master's degree in physics from the Illinois Institute of Technology, and a master's degree in business administration from the University of Chicago. In

1993, the American Institute of Aeronautics and Astronauts presented Mr. Humphrey with the Aerospace Software Engineering Award.

Mr. Humphrey was awarded an honorary Ph.D. degree in software engineering by Embry Riddle Aeronautical University in 1998. In 2000, the Watts Humphrey Software Quality Institute was named in his honor in Chennai, India, and the Boeing Company presented him with an award for leadership and innovation in software process improvement. He is one of the ten influential men and women of software, according to the managing editor of *CrossTalk* magazine.

TONY JORDANO

Mr. Jordano joined Science Applications International Corporation (SAIC) in August 1992 and is the Corporate Vice President for System & Software Engineering. In this capacity he is responsible for initiating and leading improvement in process, methods, technologies and tools for System and Software Engineering, and also technical education for the Software Engineering & Development discipline throughout the corporation.

Mr. Jordano served as a member of the SEI Blue Ribbon Panel in 1993/1994. Prior to joining SAIC, Mr. Jordano was the IBM Federal Systems Company (FSC) Manager for Systems & Software Engineering. The IBM FSC Market Driven Quality (MDQ) program for Software was also initiated and led by Mr. Jordano. Prior to that Mr. Jordano was the manager for several large software development programs which included satellite data processing and command & control, and previously led various technical and architecture teams.

Mr. Jordano earned Four Outstanding Contribution Awards at IBM, and is an Electrical Engineering graduate of Penn State University.

JIM KANE

The Software Productivity Consortium's Board of Directors appointed James A. Kane to the position of President and Chief Executive Officer, effective January 19, 2004. SPC is a nonprofit group that helps its member companies and affiliates adopt new processes and technologies to improve profitability.

Prior to assuming his post at SPC, Dr. Kane was Chief Executive Officer of Federal Sources, Inc. in McLean, VA, a leading market intelligence and consulting firm serving the federal IT marketplace. He previously held senior executive positions with GTE Information Systems, Chantilly VA (acquired by DynCorp in 1999), GTE SPACENET Corporation (McLean, VA), GTE Government Systems Corp., and with leading Internet pioneer Bolt Beranek and Newman Inc. (BBN) earlier in his career. He was also Assistant Secretary, Executive Office of Economic Affairs for the Commonwealth of Massachusetts in the 1970s.

Kane is highly regarded within the federal IT industry both for his vision on the direction of the market, and for his ability to analyze and synthesize the impact of diverse technical, policy, and competitive forces upon the market. He is a frequent speaker at industry forums, investor meetings and in company boardrooms, and is regularly quoted in the Washington-area and national IT and business press. He holds his Ph.D. from the University of Pittsburgh, and his B.S. from LeMoyne College, Syracuse, NY.

ANITA LASALLE

Dr. Anita J. La Salle is a Professor, Chair of the Information Technology Department, and Director of the M.S. in Information Technology Management program in the Kogod School of Business at American University in Washington, D.C. Dr. La Salle earned her BS and MS in Engineering from the New Jersey Institute of Technology and her PhD in Computer Science from Stevens Institute of Technology. Dr. La Salle has over 35 years of experience in industry, government, and

academe and is currently a consultant to the National Science Foundation. She has published over 40 journal articles, book chapters, and conference proceedings. Dr. La Salle's primary research focus is in the areas of Software Project Risk Analysis and the hidden costs of Software Project outsourcing.

RICK LINGER

Richard Linger is a Senior Member of the Technical Staff in the CERT organization at the Software Engineering Institute, Carnegie Mellon University. He directs research teams developing Flow-Service-Quality (FSQ) engineering technology for large-scale network system development, and Function Extraction (FX) technology for automated computation of program behavior to reveal errors and vulnerabilities.

He is a member of the faculty of the CMU Heinz School of Public Policy and Management, and lectures in the School of Computer Science. At IBM, Mr. Linger partnered with Dr. Harlan Mills to create Cleanroom Software Engineering technology for development of ultra-reliable software systems, including box-structure specification, function-theoretic design and correctness verification, and statistical usage-based testing for software certification. He pioneered use of Cleanroom technology for software product development, achieving zero-defect performance with improved productivity, and founded and managed the IBM Cleanroom Software Technology Center.

Mr. Linger has extensive experience in project management; system specification, architecture, design, verification, and certification; software re-engineering and reverse engineering; and process improvement, technology transfer, and education. He has published three software engineering textbooks, twelve book chapters, and over 60 papers and journal articles. Mr. Linger is a member of the IEEE and ACM, a founding member of the National Software

ALAN MERTEN

Dr. Alan G. Merten is president of George Mason University. Since he was named as the university's fifth president in March 1996, George Mason has gained national and international acclaim for a number of significant initiatives and achievements ranging from the launching of its first-ever capital campaign and becoming the first university to host the World Congress on Information Technology to being named among the "most wired" universities in the United States and dramatically increasing its basic and applied research activities. Also during Dr. Merten's tenure, the university has become the fastest growing university in Virginia, with student enrollment climbing from 23,000 in 1996 to more than 28,000 today.

Under Dr. Merten's leadership, two new schools have been established at George Mason: the School of Computational Sciences and College of Visual and Performing Arts. Building on its strengths in the information sciences, the university has recently developed innovative teaching and research programs in the humanities, public policy and the biological sciences.

Prior to coming to George Mason University, Dr. Merten was the dean of the Johnson Graduate School of Management of Cornell University from 1989 to 1996. He was dean of the College of Business Administration at the University of Florida from 1986-1989, where he also served as a professor of information systems. From 1970 to 1986, he was associated with the University of Michigan, first as an assistant professor of industrial and operations engineering. Dr. Merten rose to the rank of associate dean in the School of Business Administration where he was responsible for executive education and computing services.

Dr. Merten has held academic appointments in both engineering and business, and academic and business positions in Hungary and France.

Throughout his career, he has served on business and government councils and committees, holding several leadership roles. Dr. Merten was chair of the National Research Council's Committee on Workforce Needs in Information Technology. He serves on the Board of Directors of the Greater Washington Board of Trade, the Center for Innovative Technology, INOVA Health Systems, two information technology companies, and a mutual fund trust. Dr. Merten was a member of the Virginia Governor's Blue Ribbon Commission on Higher Education.

Dr. Merten has an undergraduate degree in mathematics from the University of Wisconsin, a master's degree in computer science from Stanford University, and a Ph.D. degree in computer science from Wisconsin.

HARRIS MILLER

Harris N. Miller became President of the Information Technology Association of America (ITAA) in 1995. Miller directs the day-to-day operations of the association and reports to the ITAA Board of Directors. ITAA is the largest and oldest information technology (IT) trade association, representing over 400 leading software, services, Internet, telecommunications, electronic commerce and systems integration companies. ITAA has grown each year that Miller has been President. Miller is also President of the World Information Technology and Services Alliance (WITSA), an "association of associations" representing 53 high tech trade groups around the world

Miller leads ITAA's public policy focus in other areas such as information security, taxation, workforce, intellectual property, telecommunications reform, government procurement reform, and business immigration. He testifies frequently before Congress and state legislatures on numerous issues, and briefs federal, state, and local officials on issues critical to the IT industry. He was a member of the Board of Directors of the 1998 World Congress on Information Technology. He has written and spoken widely on a variety of high tech issues and has been published in various popular and academic journals -- among others, *The Washington Post*, *IT Professional Magazine* published by the Institute of Electrical and Electronics Engineers, and *The World Today* published by The Royal Institute of International Affairs. He is a much sought after conference presenter both nationally and internationally. Virginia Governor Mark Warner recently appointed him to the Virginia Research and Technology Advisory Commission.

Among many significant accomplishments in recent years, Miller:

- Developed the nation's leading annual study of IT workforce size and demand and produces the annual IT Workforce Convocation to address related issues;
- Published widely recognized reports on diversity in the IT workforce;
- Doubled the size of the World Information Technology and Services Alliance;
- Conceived the Global Information Security Summit to bring together industry and government from around the world to discuss information sharing in the global security arena;
- Was named by *Washington Post.com* as one of the ten most influential people in Washington, DC on cybersecurity;
- Led an IT industry delegation to the World Trade Organization Ministers Meeting in Seattle, WA. Presented a nine-point plan on assuring global adoption of e-commerce;
- Was a frequent guest expert on Secretary Alexander Haig's television program, *World Business Review*;
- Created the first International Conference on Global IT Public Policy, held in Buenos Aires, September 1999
- Hosted the first global industry led conference on the Year 2000 Computer Problem, in London
- Played a critical role in the establishment of the UN-mandated International Y2K Cooperation Center

- Greatly expanded the World Congress on Information Technology to become a world class event drawing business and government leaders from around the world
- Published *Digital Planet*, the first study of the global IT marketplace
- Helped establish the Global Internet Project (www.gip.org), an international group of senior executives dedicated to fostering continued growth of the Internet

Miller has a broad range of additional public policy experience. Prior to joining ITAA, he was president of Immigration Services Associates, a government relations firm based in Washington, D.C. specializing in immigration issues. Concurrently, he acted as government relations director for Fragomen, Del Rey & Bernsen, P.C., a nationwide law firm specializing in immigration, and he operated his own government relations firm, Harris Miller & Associates, with clients in high tech, agriculture and banking.

In addition to private sector experience, Miller has many years of government service, including assignments as Legislative Director to former U.S. Sen. John A. Durkin (D-NH); Deputy Director, Congressional Relations, U.S. Office of Personnel Management; and Legislative Assistant, Subcommittee on Immigration, Refugees and International Law, Committee on the Judiciary, U.S. House of Representatives.

Miller is also active in professional and civic activities. He served as chairman of the Fairfax County, Virginia Democratic party for six years. He serves on the Virginia Opera Northern Virginia Board and was a member of the Virginia State Lottery Board. Miller was chairman of the American Heart Association, Northern Virginia Council; member, Virginia Governor's Commission on the Federal Funding of State Domestic Programs; and served on the board of the National Conference of Christians and Jews, National Capitol Area Region. Currently, he serves on the Board of Directors of The National Center for Technology and the Law - George Mason University's Tech Center and the Partnership for Critical Infrastructure Security. Miller was Co-Chairman of the 1999 Wolf Trap Ball Corporate Committee, and was featured on the cover of *Association Management Magazine*. In June of 1999, Mr. Miller was the recipient of *Federal Computer Week's* "Federal 100 of 1999 Award", presented to "...executives from government, industry and academia found by an independent panel of judges to have had the greatest impact on the government systems community..."

Miller holds an undergraduate degree from the University of Pittsburgh and a graduate degree from Yale University.

ART PYSTER

Art Pyster is the Deputy Assistant Administrator for Information Services and Deputy Chief Information Officer for the Federal Aviation Administration. Dr. Pyster is the alternate for the CIO, carrying out the full range of CIO responsibilities. The CIO oversees information technology for the FAA with primary focus to (1) ensure that strategic and business views drive the formation of information and technology architectures, policies, and standards; (2) ensure that IT investments are optimized across all agency groups and over a full range of cost tradeoffs; (3) continuously improve processes used to acquire, operate, and regulate information systems; (4) ensure information and databases are managed in an effective and coordinated fashion across the agency; and (5) ensure that critical information systems are secure.

For more than two years prior to his appointment in May 1999 as Deputy CIO, Dr. Pyster was the FAA's Chief Scientist for Software Engineering, where he was responsible for improving software technology applied across FAA systems and for continuous improvement of FAA's life-cycle management practices and processes. Dr. Pyster directed the creation and broad application of a comprehensive framework for process improvement, the FAA-integrated Capability Maturity Model.

Prior to joining the FAA, Dr. Pyster worked at the Software Productivity Consortium (SPC) as its Chief Technical Officer. Before joining SPC in 1987, Dr. Pyster was Engineering Director for Digital Sound Corporation, a pioneering provider of voice processing systems for the telecommunications industry. Dr. Pyster was the Chief Architect and Systems Engineering Manager for the Software Productivity Project at TRW. Before joining TRW in 1981, Dr. Pyster was an Assistant Professor of Computer Science and Electrical and Computer Engineering at the University of California at Santa Barbara. He received his Ph.D. in Computer and Information Sciences from Ohio State University in 1975.

ALAN SALISBURY

Dr. Alan B. Salisbury is a management consultant in the Information Technology industry, and is a founder and president of the Center for National Software Studies, a public policy “think tank.” He recently stepped down as Chairman of the U.S. subsidiary of Learning Tree International (NASDAQ: LTRE), the leading independent world-wide provider of advanced information technology and technical management training. He served as Learning Tree’s president of US Operations from 1993 through 1999 and was part of the management team that led Learning Tree through its successful public offering. In 1993, he completed a two year assignment as Executive Vice President and Chief Operating Officer of the Microelectronics and Computer Technology Corporation (MCC), the nation’s premier research and development consortium owned by 22 companies. Prior to joining MCC, he served as President of Contel Technology Center, the advanced technology research and development organization serving Contel Corporation, the nation’s third largest independent telephone company prior to its acquisition in 1991 by GTE. In these R&D assignments, Dr. Salisbury was instrumental in initiating and directing advanced technology programs which strongly supported real-world business applications of the client companies, including leading edge work in broadband services and electronic commerce.

Dr. Salisbury joined Contel in 1987, after retiring from the U.S. Army where, as a Major General, he commanded the U.S. Army Information Systems Engineering Command (USAISEC), a world-wide organization of more than 4500 computer scientists, communications and systems engineers responsible for the development, acquisition, installation and support of state-of-the-art information systems. In earlier assignments, he was program manager for several major Army and Air Force computer-based command and control systems and intelligence systems, as well as the first director of the Center for Tactical Computer Sciences (CENTACS), the Army’s computer systems research and development laboratory. His decorations include two Bronze Star medals and the Distinguished Service Medal.

Dr. Salisbury served on the 1998 Defense Science Board Task Force on the Year 2000 (“Y2K”) Problem, and chaired the earlier DSB Task Force on Military Personnel Information Systems. He currently serves as chairman of Avilar Technologies, an e-Learning infrastructure and services company, and serves on the Board of Directors of Sybase, Inc. (NYSE: SY), a leading supplier of database, Internet, business intelligence, and enterprise software and tools for the “unwired enterprise.” He recently completed 14 years of service on the Board of Visitors of the Software Engineering Institute at Carnegie Mellon University. He is a member of the Board of Directors of the Challenger Center for Space Science Education, as well as the Board of Trustees of Mitretek Systems, a not-for-profit information technology services corporation. Previously, he completed a 10 year stint as a director of USAA, a \$6 Billion Fortune 200 insurance and financial services company.

Dr. Salisbury is the author of Microprogrammable Computer Architectures, a widely adopted computer architecture reference book. He was also founding editor of the Journal of Systems and Software. He is a Senior Member of the IEEE, and a member of the Association for Computing Machinery (ACM), the Society of the Sigma Xi, and the Phi Kappa Phi honor society.

Dr. Salisbury holds MS and Ph.D. degrees from Stanford University in electrical engineering and computer science, and is a graduate of the U.S. Military Academy.

BILL SCHERLIS

William L. Scherlis is Professor in the School of Computer Science at Carnegie Mellon, and a member of CMU's International Software Research Institute (ISRI). He is the founding director of CMU's PhD Program in Software Engineering. He is Principal Investigator (with James H. Morris) of the five-year High Dependability Computing Project (HDCCP) with NASA, in which CMU leads a collaboration with five universities to help NASA address long-term software dependability challenges. His research relates to software assurance, software evolution, and technology to support software teams. Dr. Scherlis first joined the CMU faculty in 1980, after completing a PhD in Computer Science at Stanford University and an A.B. at Harvard University.

Scherlis is involved in a number of activities related to technology and policy, recently testifying before Congress on innovation, government information technology, and roles for a Federal CIO. He interrupted his career at CMU to serve at DARPA for six years, departing in 1993 as senior executive responsible for coordination of software research. While at DARPA he had responsibility for research and strategy in computer security, high performance computing, information infrastructure, and other topics.

Scherlis just completed chairing a National Research Council (NRC) study on information technology, innovation, and e-government, which released its final report in May 2002. He has led or participated in national studies related to crisis response, analyst information management, Department of Defense software management, and health care informatics infrastructure. He is an advisor to major IT companies and a member of the CS Cubed group. He has served as program chair for a number of technical conferences, including the ACM Foundations of Software Engineering (FSE) Symposium. He has more than 70 scientific publications.

SUDHAKAR SHENOY

Sudhakar V. Shenoy is Founder, Chairman and CEO of Information Management Consultants, Inc. (IMC) located in Reston, Virginia. IMC is an internationally recognized systems and software development firm serving both the governmental and commercial sectors. IMC's projects have been recipients of the prestigious "Golden Hammer Awards" given by the Office of the Vice President of the United States. The company was also listed in the top 20 "Ones to Watch" list in 1998, and in 2002, IMC won an Industry IT award by GCN for being Top Fast-Growth Firm.

Mr. Shenoy is a frequent speaker in the information technology and business process re-engineering area, and has been a university lecturer and convocation speaker. Mr. Shenoy is the 2003 recipient of the Lord Fairfax distinction for Fairfax County's Dranesville District for outstanding community involvement and volunteerism. He was also recognized in 2002 by Bio-IT World as a Bio-IT Champion for IMC's innovative work in bringing together information technology and the life sciences. Mr. Shenoy was also selected by the U.S. Small Business Administration as the Washington Area Minority and Small Business Person of the Year in 1995, and was the winner of the 1998 Greater Washington High Technology Entrepreneur of the Year award, sponsored by Ernst & Young, NASDAQ and the Washington Post. Mr. Shenoy was recognized in 1999 as Citizen of the Year in the local area. He was named one of 40 influential Global Players in the Washington region by Business Forward magazine. He was also named by TIME magazine (August 14, 2000 issue) on a list of movers and shakers in the Washington D.C. area. Mr. Shenoy is also a frequent radio personality on various business programs discussing entrepreneurship.

Along with a dozen other CEO's of Fortune 500 companies, Mr. Shenoy was selected for several Presidential trade and development missions to India (1995), Spain (1995), and Berlin (1999). In

1996, Mr. Shenoy was inducted into the University of Connecticut's School of Business Alumni Hall of Fame and was recognized as a Distinguished Alumnus of the Indian Institute of Technology in Bombay, India. Mr. Shenoy is on the University of Connecticut's Foundation Board and the School of Business Overseers Board. He is also on the Board of Advisors for George Mason University School of Engineering, and was appointed by the Governor of Virginia, the Honorable Jim Gilmore, to the Board of Visitors at this university as well. In 1998, the Governor appointed Mr. Shenoy to the State of Virginia Technology Commission. He has also been appointed, by the Governor, to the Board of Directors of the Innovative Technology Authority as the Chairman of the Center for Innovative Technology. In 2000, the Speaker of the Virginia State Legislature appointed Mr. Shenoy to a five-member committee on the Virginia Legislative Process. Mr. Shenoy is on the Board of Directors of several private and public companies. He was also the 2000 Campaign Chairman for the Fairfax-Falls Church United Way. Mr. Shenoy is the Chairman of the Northern Virginia Technology Council, a Commissioner of the Fairfax County Economic Development Authority and was appointed by Gov. Mark Warner to the Biotech initiative board.

Mr. Shenoy received a B. Tech. in electrical engineering from the Indian Institute of Technology, an M.S. in electrical engineering and an M.B.A. from the University of Connecticut Schools of Engineering and Business Administration respectively.

SIMON SZYKMAN

Dr. Simon Szykman is the Director of Cyber Security R&D in the Department of Homeland Security (DHS) Science and Technology Directorate, where he is responsible for leading the development of cyber security research and development (R&D) plans and programs in support of the Department's mission. Dr. Szykman joined DHS after an 18-month assignment at the White House Office of Science and Technology Policy (OSTP), where he served in the role of senior policy analyst and held responsibilities that included cyber security, information technology (IT) R&D, high-end computing, and other related IT issues.

Prior to his assignment to OSTP, Dr. Szykman was a member of the technical staff in NIST's Manufacturing Systems Integration Division where he led a program thrust in Intelligent and Distributed Product Development. During his tenure at NIST he also spent over a year in NIST's Advanced Technology Program, where he served terms as a Program Manager and as a source evaluation board Technical Chair in the program's Information Technology and Applications Office.

Dr. Szykman received Ph.D. and Master of Science degrees from Carnegie Mellon University, and a Bachelor of Science degree from the University of Rochester.

JEFF VOAS

Dr. Jeffrey Voas is Chief Scientist and Co-Founder of Cigital. He has published more than 150 journal and conference papers in the areas of software testability, software reliability, debugging, safety, fault-tolerance, design, computer security and career management. He is widely recognized as a pioneer both in applying practical solutions for measuring software testability and in inventing novel applications for software fault injection methods. His book, *Software Assessment: Reliability, Safety, Testability* (Wiley, 1995), is often used as a text in advanced software engineering courses. Jeff and Cigital CTO Dr. Gary McGraw co-authored *Software Fault Injection: Inoculating Programs Against Errors* (Wiley, 1998). Jeff was named 1999 Young Engineer of the Year by the District of Columbia Council of Engineering and Architectural Societies and 2000 Reliability Engineer of the Year by the IEEE.

Jeff is an adjunct professor of computer science at West Virginia University and is on the board of trustees of the Center for National Software Studies, a Washington, D.C.-based think tank on

national software policy. He has served on the editorial boards of *Software Quality Professional*, *Software Quality Journal*, and IEEE's *IT Pro* and served four years as Associate Editor-in-Chief of *IEEE Software* (contributing a bi-monthly column on software quality). He is a two-term president of the IEEE Reliability Society, a member of IEEE-USA's Technology Policy Council on R&D Policy, and the chairperson of the Center for National Software Studies' initiative on software trustworthiness. Jeff is also the chairperson of the Industrial Advisory Committee of the University of Missouri and a member of the U.S. delegation looking into software certification and verification issues for NATO.

Jeff holds a B.S.E. in Computer Engineering from Tulane University and an M.S. and Ph.D. in Computer Science from The College of William and Mary.

DEBORAH WINCE-SMITH

Deborah L. Wince-Smith became president of the Council on Competitiveness in December 2001. She is an internationally recognized expert on science and technology policy, innovation strategy, technology commercialization, and global competition. Ms. Wince-Smith serves as corporate chair and director of several high technology companies as well as on boards, committees, and policy councils of numerous national nonprofit organizations, including the University of Chicago Board of Governors for Argonne National Laboratory, the Council of the Woodrow Wilson Center, the University of California Review Committees for Los Alamos and Lawrence Livermore National Laboratories, the University of Pennsylvania Museum of Archaeology and Anthropology, the Pilgrims of the United States, and the International Women's Forum. Most recently, Ms. Wince-Smith was appointed by the Secretary of Energy to be a member of the Secretary's Task Force on the Future of Science Programs. She is a trustee of the National Inventors Hall of Fame.

A Senior Fellow at the Council since 1993, Ms. Wince-Smith served as the first Assistant Secretary for Technology Policy in the Department of Commerce Technology Administration from 1989 to 1993. In that capacity, she developed technology policies and national initiatives to strengthen U.S. productivity and economic competitiveness. She served on White House policy councils, chaired the Interagency Committee on Federal Technology Transfer, and directed the President's National Technology Initiative. She was also the U.S. representative to the multilateral Intelligent Manufacturing Systems Consortium with government and private sector leaders from the U.S., Europe, Japan, and Canada.

During the Reagan Administration, Ms. Wince-Smith served as the Assistant Director for International Affairs and Competitiveness in the White House Office of Science and Technology Policy. As a Program Manager at the National Science Foundation from 1976-1984, she managed U.S. research programs with Eastern European countries and U.S. universities.

Trained as a classical archaeologist, Ms. Wince-Smith graduated Phi Beta Kappa and Magna cum Laude from Vassar College and received her master's degree from King's College, Cambridge University. She is a frequent speaker at conferences and symposia and an author on technology policy and innovation.

BILL WULF

Dr. Wulf was elected President of the National Academy of Engineering (NAE) in 1997. The NAE and National Academy of Sciences operate under a congressional charter to provide advice to government on issues of science and engineering.

Dr. Wulf is on leave from the University of Virginia, where he is a University Professor. His research spans computer architecture, computer security, programming languages, and optimizing compilers. In 1988-90 Dr. Wulf was also on leave to be Assistant Director of the National Science Foundation. Prior to joining the University of Virginia, Dr. Wulf founded a software company, Tartan Laboratories, based on research he did while on the faculty at Carnegie-Mellon University.

In 1988-90 Dr. Wulf was on leave from the University to be Assistant Director of the National Science Foundation (NSF) where he headed the Directorate for Computer and Information Science and Engineering (CISE). CISE is responsible for computer science and engineering research as well as for operating the National Supercomputer Centers and NSFNET (the immediate precursor to the commercial Internet).

Dr. Wulf is a member of the National Academy of Engineering, a Fellow of the American Academy of Arts and Sciences, a Corresponding Member of the Academia Espanola De Ingeniera, and a Foreign Member of the Russian Academy of Sciences. He is also a Fellow of four professional societies: the ACM, the IEEE, the AAAS, and AWIS. He is the author of over 100 papers and technical reports, has written three books, holds two US Patents, and has supervised over 25 Ph.D.'s in Computer Science. He holds an M. S. in Electrical Engineering from the University of Illinois and a Ph.D. in Computer Science from the University of Virginia.

AMIT YORAN

Amit Yoran is the Director of the National Cyber Security Division of the Department of Homeland Security. In implementing the President's *National Strategy to Secure Cyberspace* and the Homeland Security Act of 2002, the National Cyber Security Division provides for 24 x 7 functions, including conducting cyberspace analysis, issuing alerts and warning, improving information sharing, responding to major incidents, and aiding in national-level recovery efforts.

This Division represents a significant step toward advancing the Federal government's interaction and partnership with industry and other organizations in this critical area.

Most recently Mr. Yoran served as the Vice President of Worldwide Managed Security Services at the Symantec Corporation, overseeing 24x7 security operations centers – delivering security services to hundred of companies in over forty countries around the world. Prior to working at Symantec, Mr. Yoran founded Riptech, an information security company. While serving as CEO of Riptech he raised venture capital, oversaw the development of technology, operations, sales and marketing. In August 2002, Riptech was acquired by Symantec.

Amit Yoran served as an officer in the United States military as the vulnerability assessment program director for the US Department of Defense's Computer Emergency Response Team and supported security efforts for the Office of the Assistant Secretary of Defense. Mr. Yoran is a graduate of the United States Military Academy at West Point and received a Masters of Computer Science from The George Washington University.

SUSAN ZEVIN

Dr. Susan F. Zevin is the Acting Director of the Information Technology Laboratory (ITL) of the National Institute of Standards and Technology (NIST), U. S. Department of Commerce, Gaithersburg, Maryland. Dr. Zevin manages the daily activities of the Information Technology Laboratory (ITL) overseeing the research program in the development of standards and performance measures for information technology. ITL's mission is to strengthen the U. S. economy and improve the quality of life by working with industry to develop information technology. The laboratory works with industry, research, academic and government organizations to develop and demonstrate information technology capabilities that are usable, secure, scalable, and interoperate.

From April 2002 until December 2, 2002, Dr. Zevin served as the NIST Chief Information Officer. Previously, as the Deputy Director of the Information Technology Laboratory, Dr. Zevin was charged with the responsibility of overseeing information technology services (desktop computing, scientific computing and network capabilities) that were provided to the entire NIST organization in addition to assisting the Director in carrying out the research program of the IT Laboratory.

Prior to joining ITL, Dr. Zevin was with the National Oceanic and Atmospheric Administration (NOAA) for more than 26 years in a variety of technical and management positions, most recently as the Deputy Assistant Administrator for the National Environmental Satellite Data and Information Services. In this position she managed the NOAA National Data Centers; oversaw the design, implementation and management of environmental information systems; established a new National Coastal Data Development Center; and developed formal agreements with major news organizations, utility companies and financial exchanges for new climate information services. It was during this time that she led the analysis of critical milestones, costs and implementation planning for a new national satellite operations control facility and created a NOAA digital earth and space facility for near real-time 3-d visualization of environmental data sets.

She also served as Deputy Assistant Administrator, NOAA, National Weather Service where she oversaw the daily operations of the National Weather Service, including operational programs such as aviation, marine, agriculture, fire weather, public warnings and forecasts, hydrologic services, and supporting infrastructure such as training, facilities, electronics, and international programs.

Prior to that she was the Director, National Weather Service, Eastern Region where she managed the provisions of public weather services for 16 eastern states, and oversaw the modernization of weather services facilities, including building 22 new sites, installing new radars and technology suites, and reorganizing 800+ employees.

Dr. Zevin was awarded the University of Arizona Alumni Distinguished Citizen Award in 1996. She is a Fellow of the American Meteorological Society (AMS) and served as an elected member of the AMS Council. Dr. Zevin received a B.A degree in Geography from the University of Pittsburgh. She earned a M.S. (Cum Laude) in Geography from the University of Tel Aviv and her Ph.D. in Hydrology and Water Resources from the University of Arizona.