

The Future of the Wireless Communications

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Dr. Adam T. Drobot

CTO and President Advanced Technology Solutions, Telcordia Technologies, Inc.

Speaker Biography: As Chief Technology Officer and President of Advanced Technology Solutions, Dr. Drobot is responsible for the company's Applied Research and Government & Public Sector groups. He oversees an Applied Research organization of more than 250 researchers who are involved in many aspects of Internet, broadband and information networking, and software technologies. The Applied Research group is renowned for developing such groundbreaking technologies as ADSL, AIN, ATM, ISDN, Frame Relay, PCS, SMDS, SONET, video-on-demand, and Internet Telephony.

Dr. Drobot's Government & Public Sector group is the single focal point that concentrates all Telcordia resources to accelerate company growth in the government space. As its head, he is responsible for planning and implementing systems engineering solutions that are applicable to Federal, State and Local government problems. These solutions span telecommunications and IT areas, including networking and operations for traditional, as well as evolving IP and converged general purpose and mission-specific networks. The Government & Public Sector group's areas of expertise include security, reliability, and information assurance as well as business process outsourcing.

Prior to Telcordia, Dr. Drobot managed the Advanced Technology Group at Science Applications

International Corporation (SAIC), a \$7B Fortune 250 firm. He also served as the Senior Vice President for Science and Technology in his 26 years at SAIC. While at SAIC he served as the principal investigator on projects dealing with high energy plasmas at the Naval Research Laboratory, as the principal investigator on the NASA Tethered Satellite System, and was responsible for SAIC's Deep Water Program for recapitalization of the U.S. Coast Guard.

Dr. Drobot's main research interest is in the development of multidisciplinary, computationally-based tools for life cycle support of complex products. He strongly supports research in secure, highly-reliable communications across the industry's most complex networks, operations and systems technologies. He has been the principal or key participant in the development of several large, scientific code systems. He has also published more than 100 journal articles, is a frequent contributor to industry literature and conference presentations and holds 17 patents. Dr. Drobot is a member of the American Physical Society, the American Institute of Aeronautics and Astronautics, the American Association for the Advancement of Science, Sigma Phi Sigma, and Phi Kappa Phi, and is a Senior Member of the IEEE.

Dr. Drobot serves as a board member for the Optoelectronics Industry Development Association, Connected Vehicle Trade Association, Alliance for Telecommunications Industry Solutions, New Jersey Technology Council, and the Telecommunications Industry Association where he is also the chair of the research division, the Intellectual Property Knowledge Management Task Force, and the American Occupational Therapy Foundation. In addition, he is a director of OpenTechWorks Inc., and is on the advisory board of the University of Michigan Transportation Research Institute. He has been the organizer of several major conferences including MILCOM 2005 and Access06 at IEEE Globecom.

Dr. Drobot is the 2007 recipient of IEEE's Managerial Excellence Award in recognition of his leadership excellence in managing innovative research and development in telecommunications. In recognition of Dr. Drobot's sustained industry contributions, the IEEE presented him with its 2009 Chairman's Award for Communications Quality and Reliability. He holds a Bachelor's degree in Engineering Physics from Cornell University in Ithaca, New York and a PhD. in Plasma Physics from the University of Texas at Austin, Texas.

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