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**Title: Communications and Networking for Public Safety**

The public safety communications industry is evolving almost daily. Advances in location-based systems, broadband wireless technologies, software-defined radios, cognitive radios, and emergency 911 protocols are helping to improve law enforcement agencies' abilities to communicate within and across agency and jurisdictional boundaries. This panel will examine some of the latest research issues and approaches in communications and networking for public safety.

**Moderator:** Alan Kaplan, CTO, Drakontas

Alan Kaplan is the Chief Technology Officer for Drakontas. Drakontas designs, evaluates and deploys communications, command and control, and situational awareness applications and systems for law enforcement, emergency response and homeland security communities. Drakontas was recently awarded the contract to manage the Communications Technologies Center of Excellence (COE) for the National Institute of Justice. Prior to Drakontas, Alan Kaplan was the Department Head for Middleware and Software Technologies at Panasonic Research Labs. He is formerly a member of the computer science departments at Clemson University and Flinders University of South Australia.

**Panelists:**

**R. James Duckworth**, Indoor Location and Tracking System for First Responders

Dr. R. James Duckworth is an Associate Professor in the Electrical and Computer Engineering department at Worcester Polytechnic Institute. He is the Principal Investigator for the WPI Precision Personnel Locator system and has been working on the project for the last four years. His main research and teaching focus is on the design of embedded computer systems. He has authored or co-authored over 40 technical papers and presentations, has published a book on digital logic design, and has two patents. Dr Duckworth is a Senior Member of the IEEE, and a member of ION, BCS, and IEE.

**Alison Brown**, Network Assisted Location of First Responders

Alison Brown is the President and Chief Executive Officer of NAVSYS Corporation. She founded NAVSYS in 1986.

Dr. Brown has a PhD in Mechanics, Aerospace, and Nuclear Engineering from UCLA, an MS in Aeronautics and Astronautics from MIT, and an MA and BA in Engineering from Cambridge University.

She is a scholar of Sidney Sussex College, a Draper Fellow, a DuPontScholar, and was awarded the Sir George Nelson prize for Applied Mechanics at Cambridge University. In 2005, she became an Honorary Fellow of Sidney Sussex College, Cambridge. She is an Institute of Navigation Fellow, a member of the International Women's

Forum and has been named Entrepreneur of the Year by Celebrate Technology and recognized by the MileHi Council as a "Woman of Distinction."

**R. Chandramouli**, Cognitive Radio for Public Safety Networks

R. Chandramouli is the Thomas E. Hattrick Chair Associate Professor of Information Systems in the Dept. of ECE at Stevens Institute of Technology. His research in the areas of cognitive wireless networks, networks and media security/forensics, and applied probability theory is funded by the NSF, DoD, NIJ and others. He is a recipient of the NSF CAREER award.

**Todd Young**, Beyond GPS, TV-Positioning for Public Safety

Todd Young, Director of Product and Business Development, provides leadership in product development and business development at Rosum. He brings to the company more than twelve years of experience in product development and product management in telecommunications (Bell Labs, US and Japan), automotive (Ford/Mazda, US and Japan), enterprise information systems (Palm, Inc.), and startup ventures (Young Learning). Todd lived in Japan for five years coordinating joint technology development, and he is fluent in Japanese. Todd is a graduate of UC Berkeley (MBA), Cornell (M.Eng. Computer Science), and North Carolina State University (BSEE).

**James Sim**, DragonForce - Wireless Situational Awareness Tool for First Responders

President and Chief Operating Officer of Drakontas. Mr. Sim, has more than 18 years of experience as an entrepreneur, independent consultant and human factors researcher. Mr. Sim is the founder of UCnet.com - The University City Network which provides electronic marketing and survey research services to more than 100 national clients. As a transportation researcher, Mr. Sim designed and produced the hardware, software and source material for interactive video based diving simulators for research conducted by USDOT, Federal Highway Administration and NHTSA.

Mr. Sim has extensive experience in the area of experimental design, data modeling and analysis. Mr. Sim holds a Bachelor's degree from Drexel University in Experimental Psychology.