Workshop on Intelligent Transportation Systems (ITS)
September 29 – October 1, 2010
Prague, Czech Republic

SPEAKER BIOS

RALPH W. BOAZ

Mr. Boaz has 27 years experience in transportation, aerospace and computer science research. He has a broad project management, systems engineering and software development background as a senior engineering manager, software developer, and transportation consultant.

As Transportation Section Manager for Ball Systems Engineering, his projects included automated incident detection, automated vehicle location, and advanced traveler information systems. Mr. Boaz was Vice President of Engineering for Econolite Control Products where he led Econolite's entrance into the Advanced Transportation Controller (ATC) market place.

Mr. Boaz is now president of Pillar Consulting, Inc. He serves on the ATC and National Transportation Communications for ITS Protocol (NTCIP) committees developing standards for the United States. He is currently the project manager for the ATC Application Programming Interface and ITS Cabinet development efforts. He provides services to both the private and public sectors in transportation training and education, standard and specification development, project management, system integration, testing, and marketing. He is a frequent invited speaker at transportation conferences and workshops.

PETR BUREŠ

Ing. Petr Bureš Ph.D., has been assistant professor since 2004 at faculty of transportation sciences of CTU in Prague. He graduated as Ph.D. in 2006 and his main research interests are intelligent transport systems and computer vision. In 2003 he was project manager of test of RDS-TMC system and since that time he was actively working on establishing this system in the Czech Republic. Within CONNECT project he was appointed by Ministry of Traffic as its delegate at RDS Forum. From 2000 he is involved in standardization activities on national and international level, being member of CEN TC278/WG12 and ISO TC204/WG4.

BELINDA L. COLLINS

Dr. Belinda L. Collins is the Director of Technology Services at the National Institute of Standards and Technology. Technology Services, one of the 12

operating units at NIST, provides U.S. industry, government, and the public with measurements, standards, technology, and knowledge resources and services from NIST that promote innovation, increase competitiveness, and facilitate trade. Technology Services provides policy support for standards and conformity assessment activities for Federal agencies, as well as for legal metrology domestically and internationally. Dr. Collins chairs the ANSI ISO Council, is a member of the federal Interagency Committee on Standards Policy (ICSP), serves on the ANSI Board of Directors, and is a Past Chair of the International Laboratory Accreditation Cooperation (ILAC) and of the National Cooperation for Laboratory Accreditation (NACLA). Dr. Collins received her M.A. and Ph.D. in experimental psychology (vision science) from the University of Virginia, and her B.A. in experimental psychology from Mary Washington College. While at NIST, she has served in several different positions, including research psychologist, Leader of the Lighting Group, Program Analyst in the Office of the NIST Director, Director, Office of Standards Services, and Deputy Director and now Director, Technology Services. Dr. Collins has authored numerous technical publications and has been active in both domestic and international standardization, chairing several different technical committees.

Dr. Collins is a Fellow of the Illumination Engineering Society of North America (IESNA) and served as its Vice President for Education (1995-1997). Dr. Collins received the NIST Bronze Medal in 1984, a Meritorious Service Award from the American National Standards Institute, along with a Public Service Award from ACIL in 1997, the NACLA Lifetime Achievement award and the NIST Edward Bennett Rosa Award in 2000, and the Department of Commerce Silver Medal in 2001. In 2005, she received the Margaret Dana Award from ASTM International for outstanding contribution in the development of voluntary consumer product standards, and the Department of Commerce Silver Medal for vision and leadership of a cross-bureau effort to implement the Department's Standards Initiative. In 2008, she received the Howard Coonley Medal from the American National Standards Institute.

GERALD D. CONOVER

Gerald Conover is a world-renown expert on intelligent transport systems and services (ITS). He also has almost forty years experience in the auto industry. Joining Ford Motor Company at its headquarters in Dearborn, Michigan, in 1969, Mr. Conover rose through progressively responsible positions in product development, manufacturing and global business development.

As managing director of PRC Associates, Mr. Conover continues to apply his broad ITS experience and expertise to solve the problems of, and create new opportunities for, companies and public agencies in the ITS community.

Mr. Conover is on the Board of Directors of the World Congress on Intelligent Transport Systems (serving for 16 years), having served as its chairman and head of finance several times. He is also a past member of the Board of Directors of the Intelligent Transportation Society of America. He serves or has served on that group's executive, strategic planning and finance committees. He chairs ITS America's International Business Relations Committee. Mr. Conover is the 2005 recipient of the Society of Automotive Engineer's Intelligent Transportation Systems Award for excellence in moving forward ITS technologies and applications. He is a long-time member of SAE. He has also been selected by FISITA (international automotive engineering organization) as it's firstever keynote speaker on intelligent transport systems for FISITA's 2006 World Automotive Congress in Yokohama, Japan.

Mr. Conover was the first leader of Ford's global intelligent transportation systems (ITS) effort, creating and implementing strategies and plans to link ITS efforts at Ford in the US with Ford's many businesses in Europe – including Jaguar and Volvo – for lean, efficient and global ITS development and product implementation.

The University of Michigan (Ann Arbor) awarded Mr. Conover BS and MS degrees in mechanical engineering.

ROBERT S. JAFFE

Dr. Jaffe is a systems engineer. He received his PhD in Electrical Engineering from Stanford University.

After 13 years as a Research Staff Manager at IBM Research, he founded Consensus Systems Technologies (ConSysTec) Corp., in 1996, where he is now President.

In 1993 Dr. Jaffe was Program Manager and Chief Architect for development of the US National ITS Architecture, which he continues to help extend and maintain for US DOT.

In addition to having developed over 60 regional ITS architectures in the US and internationally (now including in Israel), ConSysTec has also led development, application and harmonization of many ITS Standards, and has developed ITS solutions for real-time transit systems operations.

Dr. Jaffe is Chair of the ITS America Research, Integration, Training and Education Forum, and is an active member of the ITS New York, Board of Directors.

EVA GELOVÁ

Eva Gelová works as researcher in the ITS department of Centrum dopravního výzkumu, v.v.i. (CDV) for seven years. During this time period she participated in national, European and worldwide projects in transport area, focused mainly, but not only, on ICT tools and their use for intelligent transport systems.
One of the important fields of the last decade is the human machine interface research, and here Mrs Gelová contributed to the following European projects: HUMANIST, HUMAN centred design for Information Society Technologies (FP6); IN SAFETY, INfrastructure and SAFETY (FP6); eIMPACT, Socio-eonomic Impact Assessment of Stand-alone and Co-operative Intelligent Vehicle Safety Systems (IVSS) in Europe (FP6).

She also participated in the project TRACKSS, Technologies for road advanced cooperative knowledge sharing sensors (FP6), focused on the machine-machine cooperation.

MICHAEL HOWARTH

Mr. Howarth is Vice President, Business Development at Intelligent Devices, Inc.

Michael has had a long and successful career as a senior executive with a number of international companies, he became involved with the traffic industry in the nineties as President of US Traffic corporation. He joined Intelligent Devices in 2002, a company that specializes in standards based ITS solutions for the traffic industry, in particular the NTCIP standards where IDI is recognized as a world leader in all aspects of NTCIP implementation. During his period with IDI Michael has brought a practical approach to the NTCIP area which has proved very successful. Michael is an expert to ISO TC204 WG9 – Integrated Transportation Information, Management and Control, and leads the U.S delegation to ISO TC204 WG18- Cooperative Vehicle Systems.

DAVID JONES

David Jones is a transportation specialist for the US Federal Highway Administration (FHWA) Office of Highway Policy & Governmental Affairs, at the Department of Transportation Head Quarters in Washington, DC. Mr. Jones has over 20 years of experience with Weigh-In-Motion (WIM) systems and WIM data management. Currently he manages the Truck Weight Study (TWS) and Heavy Vehicle Travel Information System (HVTIS) Program, which is part of the FHWA's national database for travel monitoring. Prior to his current position, Mr. Jones held the position of electronic engineering technologist for the FHWA's

Office of Technology Application (OTA). He served as lead technologist for OTA's Demonstration Project 76 (DP 76) that was conducted in 43 states in the US providing State Highway Administrators, pavement designers, weight enforcement personnel, and planners with an understanding of the various types of WIM technologies, their accuracies and reliability, installation costs and procedures, the approximate costs of each and their maintenance requirements, the appropriate application of each, limitations to their use, and cost effective methods of coordinating WIM data. He attended Northern Virginia College majoring in Computer and Electronic technology. He obtained Electronic Technician Certificate of Certification from the Northern Virginian Industrial System.

Mr. Jones began his career in government service with the Department of Justice in 1978.

STEPHEN KERN

Stephen Kern is the Team Leader for the Global Technology Exchange Program at the Office of International Programs (OIP) of the Federal Highway Administration (FHWA). In this position Mr. Kern supervises international highway transportation outreach in support of the Agency strategic goals by informing the U.S highway community of technology and program innovations abroad that have potential value in the United States, promoting U.S. expertise, goods and services in foreign countries, and increasing transfers of U.S. highway transportation technology to foreign countries. He also oversees technical assistance to and exchanges with various international partners, as well as cooperative efforts with other US agencies and stakeholders.

Prior to joining FHWA, Mr. Kern worked at the International Relations Office of the Texas Department of Transportation, and at the US State Department, where he served as a Foreign Service Officer in Jakarta, Indonesia, and Tijuana, Mexico.

He is a graduate of the College of William and Mary in Virginia and holds a Masters Degree in Foreign Affairs from the University of Virginia.

JOSEF MIKULÍK

Graduated at the Civil Engineering Faculty of the Technical University of Brno (1969), one year education at the Technical University of Karlsruhe, obtained PhD degree in road safety infrastructure planning (1988).

Working since 1976 in Transport Research Institute in the road safety, traffic engineering and urban transport research. From 1992 – 2007 he was the

Director of CDV – Transport Research Centre. Nowadays he is the Chair of CDV Institute Council.

Dr. Mikulik introduced Czech transport research to the European research area and established informal links between transport (particularly road) research and academic institutions within the Central and East European region contributing to the extension of the EU and OECD research towards this region.
During the recent years, he was or still is a member of the international research bodies and committees as follows: OECD-IRTAD (chair), JTRC OECD/ITF (Steering Group), ECTRI (vice-chair), FEHRL (Steering Group), FERSI (Steering Group), COST TC Transport (chair), ERTRAC, PIARC Road Safety, TRB Committee on Conduct of Research, TRB Committee on Transport Safety Management (U.S.), Forschunggesselschaft fuer Strassenwesen (Germany).

He is the member of the Czech bodies and organisations: Governmental Road Safety Council (BESIP), Association of Research Organisations (AVO), Scientific Board of Minister of Transport, National COST Programme Board, Czech Road Society (CSS), Editorial Board of journals Doprava (Transport) and Silniční obzor (Road Horizon).

PAULA OKUNIEFF

Ms. Paula Okunieff, Senior Technical Staff of Consensus Systems Technologies Corp (ConSysTec), has over 30 years of experience in systems engineering, transit technology strategic planning, and transit information systems, specializing in transportation data integration and transit enterprise architecture development and implementation efforts. She is internationally recognized in the area of Transit Intelligent Transportation Systems (ITS) Architecture and Standards, and currently serves as a US Expert on the ISO Technical Committee 204 Working Group 8 for Public Transport and Emergency.

JACK OPIOLA

Jack Opiola is the Senior Partner with D'Artagnan Consulting LLC (DCL).Prior to this position, Jack was a Principal Consultant for Intelligent Transport Systems (ITS) and Telematics with Booz & Company (previously Booz Allen Hamilton Ltd) in London, UK. Jack worked with National Governments, the Automotive Industry and global transport clients in the developing ITS/Telematics policies, legislation, concepts, products and embedded systems. This worked spanned virtually every aspect of transportation policy and planning, legislation, management, finance, operations, engineering and IT systems applied to highways, airports, freight haulage, logistics, automotive and public transport systems. Jack has been on the forefront of advancing the state-of-the-art in tolling, computerised parking

control, congestion charging, electronic road user pricing and charging. Currently he is using his experience to assist in the development of national, free-flow tolling and Electronic Road Pricing systems around the world. He has also pioneered Global Navigation Satellite Systems (GNSS) for road user charging and ITS applications. Using this experience, he is engaged with the Australia, US Federal and State Governments for Vehicle Miles Travelled (VMT) charging concepts to replace excise taxes on motor vehicle fuels, improve the environment, raise transport revenues and make the overall transportation system more sustainable.

JOSEPH PENNINGTON

Joseph Pennington, a Career Member of the Senior Foreign Service with the rank of Counselor, assumed his duties as Deputy Chief of Mission at the U.S. Embassy in Prague in August 2010.

Mr. Pennington most recently served as Deputy Chief of Mission at the U.S. Embassy in Yerevan, Armenia (2007-2010). Prior to that, he worked as the U.S. Embassy Spokesman in Ankara, Turkey (2002-06). Mr. Pennington has served as political-economic officer in Naples, Italy (2001-02), head of the U.S. Embassy Branch Office in Mostar, Bosnia-Herzegovina (2000-01), and economic officer at the U.S. Embassy in Sarajevo (1999-2000). He also worked as political-economic officer at the U.S. Consulate in Adana, Turkey (1995-98), in the State Department Bureau of Economic and Business Affairs (1991-93), and in the consular section at the U.S. Embassy in Moscow (1989-91).

Mr. Pennington is a graduate of the University of Maryland Baltimore County, where he earned a BA in political science. He subsequently received an MA from Columbia University in New York City (1986).

KAREL POSPÍŠIL

Prof. Karel Pospíšil was born on July 28, 1969. He graduated (MSc. – degree) at the Brno University of Technology, School of Civil Engineering, subject area – construction engineering, Ph.D. at the Pardubice University and MBA at the Nottingham Trent University. Currently he is the Director of CDV – Transport Research Centre and professor of the University of Pardubice, where he is a guarantor of three subjects and PhD. dissertation supervisor. As a Chartered Engineer for road and railway constructions he designed projects of transport constructions. His main domains of interest are: Transport systems and non-destructive diagnostics and research of materials and structures. He was/is involved in national material and structural testing research and in several European Framework Projects, e.g. TREE, SPENS, ARCHES, CERTAIN, COST 343, 344, 347, 351 and 354 and coordinates TITaM project (Transfer

Infrastructure Technologies and Management). He is the Czech FEHRL (Forum of European Highway Research Laboratories) Research Co-ordinator and member of Board of Directors. He has been on study visits in several institutes - LCPC (France), BRRC (Belgium), DRI (Denmark), TRL (UK), FHWA (USA), Cardiff University (UK). Language skills: English, Russian.

ROBERT RAUSCH

Bob Rausch is Vice President with TransCore ITS. He has over 40 years of experience in the design and deployment of traffic management systems including hardware and software for a wide range of ITS devices including traffic controllers, message signs; he has been the manager and principal system designer for such projects as New York City's traffic signal system and a number of Traffic Management Centers including Sydney, Australia. Bob has been an instructor for the Institute of Transportation Engineers (ITE) and the National Highway Institute (NHI) teaching the application of ITS Standards, ITS Project Management, and acquisition of Traffic Signal Systems. He continues to be active in the ITS standards development program for the US including the Traffic Management Data Dictionary for center-to-center communications, the Advanced Transportation Controller and cabinet, NEMA standards development, and many of the NTCIP standards. He is a US expert working with ISO TC204 Working Group 9 developing center-to-center and center-to-roadside communications standards. He has been active in the Vehicle Infrastructure Integration program now expanded to the IntelliDrive(SM) program in the US. He is a licensed Professional Engineer in 18 states; he received his Bachelors and Masters degrees in Electrical Engineering from Massachusetts Institute of Technology, Cambridge MA.

JÖRG "NU" ROSENBOHM

Since August 2010, Joerg 'Nu' Rosenbohm is a Vice President with Intelligent Devices Inc (IDI). His responsibilities include identifications of new opportunities in IDI's traditional markets as well as the identification of opportunities in new markets. He is a certified project manager. Prior to joining IDI, Nu worked for 16 years with Telvent, where he has successfully managed several software projects involving the deployment of Telvent's central control software, MIST©. In his latest assignment at Telvent, Nu was the Traffic Management and Security Software Manager for the Western ATVAM in the Kingdom of Saudi Arabia. The ATVAM project will deploy a traffic management and security system and a red light and speed enforcement system in the cities of Makkah, Madinah, and Jeddah.

In addition, Nu was Telvent's key engineer for the US DOT's ITS Standards Development effort, particularly the NTCIP suite of protocols. He is still an active

member of many NTCIP Standards Development technical working groups. He also served as instructor for both FHWA and ITE's NTCIP / ITS Standards outreach programs. These activities put him on the FHWA roster of the peer-to-peer program in the area of ITS Standards.

Previously, Nu served as the Project Manager of several projects that deployed ITS Standards in projects such as DMS deployments for the Port Authority of New York and New Jersey (PANYNJ), the Florida Department of Transportation, the Tennessee Department of Transportation, the Delaware Department of Transportation, and the Pennsylvania Turnpike Commission.

Nu has also been responsible for various ITS applications projects such as the concept design, analysis, and implementation of transportation management systems (centralized, distributed, and networked system architectures for both arterial and freeway applications) and Advanced Traveler Information Systems (ATIS), as well as the preparation of conceptual Transportation Management Center design studies nationally and internationally.

He was also a task manager for the Integrated Corridor Management (ICM) project in Montgomery Country, MD, one of eight sites selected by the US DOT for the ICM program.

MARTIN P. SCHROEDER

Martin Schroeder is the American Public Transportation Association (APTA) Chief Engineer, Sr. Program Manager for Rail and Energy Programs and is also the APTA Sr. Program Manager for the Universal Transit Fare System (UTFS) Task Force. As APTA's senior technologist, Martin was a leading force behind the development of the CFMS Standard and is an active participant in Intelligent Transportation Systems (ITS) and fare system research worldwide. Martin is the senior advisor to the APTA Rail Standards Policy Committee on research and standards in rail engineering, vehicle crashworthiness, fare systems, energy efficiency, and cyber security among others. Martin is also chair of the U. S. Working Advisory Group to the International Organization for Standardization (ISO) Technical Committee on Intelligent Transportation Systems, and chair of the ASME Rail Transit Vehicle Standards Committee. Martin holds a Masters degree in Mechanical Engineering from the University of Michigan and is a registered professional engineer.

STEVE SILL

Steve Sill is currently the program manager for Intelligent Transportation Systems (ITS) vehicle safety technology and ITS Architecture and Standards at the United States (US) Department of Transportation (DOT) Research and

Innovative Technology Administration ITS Joint Program Office (JPO). He is responsible for the National ITS Architecture and ITS Standards programs and the Integrated Vehicle Based Safety Systems program. He formerly served as the IntellidriveSM technical manager at ITS-JPO. Prior to assuming that position, he was an engineer and program manager at the USDOT Federal Railroad Administration where he was responsible for managing high-speed passenger rail technology development and demonstration projects. Before this, he was an engineer at the USDOT Federal Transit Administration responsible for advanced technology transit bus programs including alternative low-emissions fuels and hybrid- electric drive systems. Prior to assuming that position, Mr. Sill worked as a Logistics Engineering Specialist for the US Navy's Space and Naval Warfare Systems Command. He has earned a Master of Business Administration from the Virginia Polytechnic Institute and State University and a Bachelor of Science in Mechanical Engineering with an Aerospace Engineering Area of Concentration and a German Technical Translator's Certificate from the Rose-Hulman Institute of Technology. He holds a commercial airplane pilot's license with instrument and multi-engine ratings and associated flight instructor authorizations and has been employed as a flight instructor. He is licensed as a Professional Engineer (PE) by the Commonwealth of Virginia (US), holds a certificate in Integrated Logistics Support from the Department of the Navy and is a certified Project Management Professional (PMP).

JOHN TOONE

John Toone has worked for King County Metro in his native city of Seattle, Washington since 1992 primarily in the Transit Speed & Reliability program. He is currently the Transit Intelligent Transportation Systems Program Manager. The program encompases ITS architecture, project and system development, and systems operations. He holds a BA in political science and a Master of Public Administration (MPA) both from the University of Washington with emphasis on transportation and statistics. He served in the US Army Reserves for twelve years as an Army Corps of Engineers officer.

John has presented at several ITS and Transit Signal Priority conferences and workshops for ITS Washington, ITS America, Toronto regional government, the Transportation Research Board (TRB), and APTA. He participated in the TCIP standards development for transit signal priority and authored the article "Reality Bytes", published in the July/August 2009 edition of ITS International.