Committee on Energy and Commerce
U.S. House of Representatives

Witness Disclosure Requirement - "Truth in Testimony"
Required by House Rule XI, Clause 2(g)

1. Your Name: John Kenney		
2. Are you testifying on behalf of the Federal, or a State or local government entity?	**Yes**	**No** X
3. Are you testifying on behalf of an entity that is not a government entity?	**Yes** X	**No**
4. Other than yourself, please list which entity or entities you are representing: Toyota Info Technology Center, USA, Inc.		
5. Please list any Federal grants or contracts (including subgrants or subcontracts) that <u>you or the entity you represent have received</u> on or after October 1, 2011: None		
6. If your answer to the question in item 3 in this form is "yes," please describe your position or representational capacity with the entity or entities you are representing: Employee		
7. If your answer to the question in item 3 is "yes," do any of the entities disclosed in item 4 have parent organizations, subsidiaries, or partnerships that you are not representing in your testimony?	**Yes** X	**No**
8. If the answer to the question in item 3 is "yes," please list any Federal grants or contracts (including subgrants or subcontracts) that were received by the entities listed under the question in item 4 on or after October 1, 2011, that exceed 10 percent of the revenue of the entities in the year received, including the source and amount of each grant or contract to be listed: None		
9. Please attach your curriculum vitae to your completed disclosure form.		

Signature: [redacted] **Date:** Nov 8, 2013

John B. Kenney, Ph.D.

Principal Researcher, Toyota InfoTechnology Center, USA

Contact information:
Toyota InfoTechnology Center
[redacted]
[redacted]
[redacted]

Summary:
Senior communications researcher with specific expertise in wireless vehicular communication, Internet routers, and signal processing. Over 25 years of experience in applied research, standards development, technical leadership, and university teaching. Strengths include analytical skills, algorithm and protocol development, patent and publication production, written and verbal communication, and building a collaborative environment. Key expertise in DSRC, QoS, IP/MPLS, Ethernet, PON, packet-voice, adaptive system theory, communication theory.

Professional Experience:

Toyota InfoTechnology Center, USA
Principal Researcher, Senior Research Manager *2007-*
Responsibilities: Manage research team, external consultants, and university collaborations focused on vehicle-based wireless communication, including DSRC, Cognitive Radio, and Smart Grid. Active contributor to research results. Represent Toyota in international standards and government-industry research projects.

Tellabs Operations, Inc. *Senior Research Engineer* *1983-2007*
Organizations: CTO Office; Research Center
Responsibilities: Manage and contribute to data networking and signal processing research, and corporate technology strategy. Project examples are given below.

University of Notre Dame: Electrical Engineering and Computer Science Depts. *1989-2010*
Position: Adjunct Assistant Professor (part time)
Courses taught: Data Networks, Adaptive Filtering & Control, Systems Programming.

Standards organization leadership positions:
SAE DSRC Technical Committee, Secretary *2010-*
MFA Forum, Board of Directors, Technical Committee Vice-Chair *2006-2007*
ATM Forum, Editor, Traffic Management TM 4.1 Specification, *1997-1998*

I also have experience managing and consulting on high profile congressional campaigns.

Education:

Ph.D. University of Notre Dame, 1989, GPA = 4.00
M.S.E.E. Stanford University, 1983, GPA = 3.83
B.S.E.E. University of Notre Dame, 1982, *magna cum laude*, GPA = 3.75

Honors and Awards:

IEEE-SA award for contributions to IEEE 802.11p, IEEE 1609.3 and IEEE 1609.4 standards
Tellabs Technical Achievement Forum – recognizing the top 1% of engineers
National Science Foundation Graduate Fellow
MFA Forum and ATM Forum Distinguished Service Awards
Tau Beta Pi, Eta Kappa Nu. National Merit Scholar.

Publications: 7 U.S. patents issued (and 5 pending); approximately 28 journal, book, and conference papers, and dozens of standards contributions. Details upon request.

Recent Publications:

G. Bansal, J. Kenney and C. Rohrs, "LIMERIC: A Linear Adaptive Message Rate Algorithm for DSRC Congestion Control," accepted for publication in IEEE Transactions on Vehicular Technology, to appear 2014.

G. Bansal and J. Kenney, "Congestion Control for Vehicular DSRC Systems," to appear IEEE Vehicular Technology Magazine, December 2012.

G. Bansal and J. Kenney, "Achieving Weighted-Fairness in Message Rate-based Congestion Control for DSRC Systems," IEEE Wireless Vehicular Communication symposium (WiVEC), June 2013, Dresden *Best Paper Award*

A. Weinfield, J. Kenney, and G. Bansal, "An Adaptive DSRC Message Transmission Rate Control Algorithm," to appear Proceedings of 18th ITS World Congress on Intelligent Transport Systems, October 2011.

J. Kenney, G. Bansal, and C. Rohrs, "LIMERIC: A Linear Message Rate Control Algorithm for Vehicular DSRC Systems," to appear in Proceedings 8th ACM Int'l. Workshop on Vehicular Inter-Networking (VANET 2011), September 2011.

G. Bansal, J. Kenney, and A. Weinfield, "Cross-Validation of DSRC Radio Testbed and NS-2 Simulation Platform for Vehicular Safety Communications," to appear in Proceedings 4th Int'l. Symposium on Wireless Vehicular Communications (WIVEC2011), September 2011.

J. Kenney, "Dedicated Short-Range Communications (DSRC) Standards in the United States," Proceedings of the IEEE, Vol. 99, No. 7, July 2011, pp-1162-1182.

S. Kaul, M. Gruteser, V. Rai, and J. Kenney, "Minimizing Age of Information in Vehicular Networks," Proceedings of 8th Annual IEEE Comm. Soc. Conf. on Sensor, Mesh, and Ad Hoc Comm. and Networks (SECON), June 2011.

J. Kenney, "Standards and Regulations," Chapter 10 in *VANET Vehicular Applications and Inter-Networking Technologies,* H. Hartenstein and K. Laberteaux, Eds., John Wiley and Sons, Ltd., 2010.

S. Kaul, M. Gruteser, V. Rai, and J. Kenney, "On Predicting and Compressing Vehicular GPS Traces," Proceedings of 2010 IEEE Int'l. Conference on Communications (ICC), May 2010.

K. Hong, J. Kenney, V. Rai and K. Laberteaux, "Evaluation of Multi-Channel Schemes for Vehicular Safety Communications," Proceedings of 3rd IEEE Int'l. Symposium on Wireless Vehicular Communications (WIVEC2010), May 2010.

K. Hong, D. Xing, V. Rai, and J. Kenney, "Characterization of DSRC Performance as a Function of Transmit Power," Proceedings of 6th ACM Int'l. Workshop on Vehicular Inter-Networking (VANET 2009), September 2009.