**How Communications Will Change Vehicles and Transport**

**Workshop on Vehicle Communications and Automated Driving; and Meeting of the Collaboration on ITS Communication Standards**

**28-29 July 2015, Beijing, China**

SAE International submission

Topic 2: Vehicle communications, from ADAS to automated driving

Title: The role of connected standards in the connected world

Engineering societies have a special role to play in the development of new technologies. While innovation is driven primarily by the commercial world, the engineering societies provide products and services directly related: standards development, education, marketing, public awareness which assist in deployment and implementation.

Specifically, standards are important due to growing reliance on technology. During the industrial period, standards were essential to provide the foundation for manufacturing methodologies and contributed to the industrial progress. Today, networked and connected technologies increase the demand for standards but of a different kind; cooperative and connected systems require standards developers to not only be aware of all standardization efforts but effectively collaborate in a system engineering approach. Otherwise, connected technology deployment can cause safety problems and standards can serve as mechanisms for limiting these impacts.

The growing pace of technological change is driving the need for standards. The faster the advance of technologies, the greater the risk in R & D and product development. Standards setting can reduce uncertainty in a rapidly changing technology environment.

This presentation will cover all aspects of connected and automated vehicle related to current SAE standards development in the following expert committees:

SAE Active Safety Standards Committee, SAE Dedicated Short Range Communications (DSRC) Committee, SAE On Road Autonomous Vehicles Committee, SAE Vehicle Electrical and Electronics Committees, SAE Functional Safety Committee, SAE Vehicle Electrical System Security Committee (Cybersecurity), SAE Safety and Human Factors Committees and SAE On Road Autonomous Vehicle Project.

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