

# **Title: Overview of New Automotive SAE and ISO Air filtration Standards**

## **Author**

**Neville J. Bugli**  
**IBR USA Inc**  
**11599 Morrissey Rd.**  
**Grass Lake, Michigan 49240**  
**(248) 739-9627 (direct)**  
**(517) 522-8453 IBR**  
**[nbugli@ibr-usa.com](mailto:nbugli@ibr-usa.com)**

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## **Presentation Only**

### **Abstract**

The automotive industry uses SAE and ISO standards to evaluate performance of vehicle systems and sub-systems. In this presentation new and developing SAE and ISO standards related to automotive air filtration systems are discussed. A brief overview is given along with challenges for the new standards. A brief discussion is also presented on the relationship between SAE and ISO standards development committees. Standards related to Engine Intake, Passenger Cabin Air, Crank Case Ventilation Systems and Evaporative Emissions are discussed.

The performance of the air filtration systems is strongly dependent on the type of standard contaminants used. Filtration Studies have also established the fact that standard contaminants may or may not represent real world conditions. On the other hand well established industry standards using standard contaminants can give meaningful comparative results. These results can be used to quickly perform A-B type comparisons and evaluations. Well written standards also add the benefits of using some of the best practices providing more consistency in the data produced. Also, depending on the type of standard test contaminants used, comparisons are possible to real world conditions. However even the best written technical standards have their own merits, challenges and limitations.