

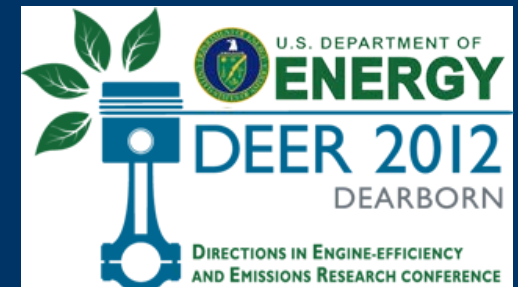
Poster Location: **P-20**

Design and Commissioning of a Wind Tunnel for Integrated Physical and Chemical Measurements of PM Dispersing Plume of Heavy Duty Diesel Truck

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- Generate a benchmark database to bridge on-road and laboratory emission measurements;
- Quantify ultrafine particle formation/growth potentials;
- Develop turbulent reacting flow model to quantify the aging process of diesel plumes and its effects on chemical and physical properties of diesel particulate matter.
- Detailed CFD and FEA simulations defined the structural needs and enhanced specific plume measurements capabilities.
- Flow qualification and verification guaranteed the compliancy with typical standards for this kind of tunnel.
- Initial 3d Plume measurements shows the regional effect PM evolution

