

# In-duct Air Cleaning Devices: Ozone Emission Rates and Test Methodology

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# Why ARB Funded This Study

- ARB 2007 regulation limited ozone emissions from portable indoor air cleaning devices
- Exempted “in-duct” devices because:
  - No ozone emission test method for them
  - No “real world” ozone emissions data from such devices
- Concern that some in-duct devices may generate significant amounts of ozone
- Do we need to include them?

# Objectives of the Study



- Develop a test method for measuring ozone emissions of in-duct air cleaners.
- Use the laboratory test method to measure ozone emission rates from commercially available models
- Conduct field testing to measure emissions/ozone concentrations from in-duct devices installed in California buildings
- Estimate impact on indoor ozone concentrations and health risk in California buildings

# Today's Speaker



## Glenn Morrison, Ph.D.

- Professor of environmental engineering at the Missouri University of Science and Technology.
- NSF career awardee
- Fellow of the Academy of the International Society of Indoor Air Quality and Climate (ISIAQ)
- Current Vice President (and President as of July 2014) of ISIAQ.