Air Pollution Control Equipment

Waqar Ahmed
Lecturer
Institute of Environmental Studies
University of Karachi
Catalytic Converter

- Expanding mat
  - Insulates, seals and provides an unbreakable enclosure for the monolith

- Ceramic monolith
  - Substrate for the catalytic noble metal

- Stainless steel housing

- Lambda probe
  - Measures the residual oxygen content in the exhaust gas

- Catalytic layer of noble metal
  - Washcoat
  - Ceramic substrate
How Catalytic Converters Work

Catalytic Converter
Electrostatic Precipitator

1. Smoke particles pick up a negative charge.
2. Smoke particles are attracted to the collecting plates.
3. Collecting plates are knocked to remove the smoke particles.

Waste gases containing smoke particles

Waste gases without smoke particles
Cyclone Separator
Baghouse