

Ceramic Particulate Filters

Cheryl Klepser - Cummins

Thomas Yonushonis - Cummins

Randall Stafford - Cummins

Thomas Watkins - ORNL

Amit Shayam - ORNL

Edgar Lara-Curzio - ORNL

Poster location P-5





Ceramic Particulate Filters

- Background
 - 2007 EPA Diesel Particulate Regulations resulted in implementation of particulate filters.
- Project Objectives
 - Minimize the fuel consumption required for the regeneration of particulate filters.
 - Define the material properties used in Life Prediction.
 - Validate the Life Prediction Methodology.
- Summary
 - New methods for evaluating material properties.
 - Life Prediction through modeling
 - Life Prediction validated by experiment.
 - Enables lower Life Cycle Cost for engine and aftertreatment.
 - Applicability of test methods, models and burner rig being evaluated for other materials.