



Cylinder Head Gasket *with Integrated* Combustion Pressure Sensors

David Toth, Bhawani Tripathy
Federal Mogul Corporation

Marek T. Wlodarczyk
Optrand Incorporated

POSTER LOCATION -17



Cylinder Head Gasket w/ Integrated Pressure Sensors

MOTIVATION:

- Cylinder Pressure Sensor (CPS) enables advanced engine controls for high efficiency & low emission engines of different types & sizes
- Cylinder Head Gasket (CHG) offers lowest cost, best CPS accuracy, compactness, & reliability

PRELIMINARY RESULTS:

- Prototype CHG with Integrated CPS developed for 6-cylinder diesel
- CPS has front section $\Phi 1.8\text{mm}$
- CPS accuracy within 1% of water cooled quartz reference

