

MUSIC

(Merritt Un-throttled Spark Ignition Combustion)



AN INNOVATIVE COMBUSTION TECHNOLOGY TO REDUCE CARBON EMISSIONS BY 20%

KEY FEATURES:

- True un-throttled running
- Ultra-lean burn capability (in excess of 100:1 AFR) leading to faster, cooler combustion with reduced heat loss
- Near Diesel levels of thermal efficiency
- CO₂ reduction by 20%
- NO_x reduction by up to 50%
- Operates over the whole speed/load range
- Needs no other support technology
- Potentially cost neutral
- The MUSIC technology can be used in any and all gasoline engines
- Single cylinder research engine run for over 18 months
- 4 cylinder prototype now under development

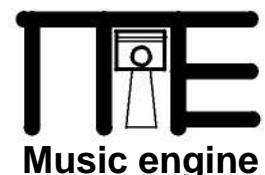
The MUSIC technology has proved itself to be capable of delivering all the anticipated benefits of the throttleless, ultra-lean burn configuration. This is anticipated to be reinforced by the 4 cylinder development programme now under way and also by in-vehicle testing in the demonstrator vehicle also starting development.



Department for
Transport



Ptech
Engineering Solutions



SEMINAR PROGRAMME, COVENTRY UNIVERSITY, THE MUSIC ENGINE

Date: Friday 15th February 2008, By invitation

Venue: The Goldstein lecture theatre, Alan Berry building, at Coventry University.

The Merritt Unthrottled Spark Ignition Concept engine is based on a novel new combustion system developed at Coventry University that allows the petrol engine greatly improved thermal efficiency at part load similar to that of diesel engines. It offers a major contribution towards the reduction of carbon emissions from cars.

TIME	EVENT
10.00	Chairman's opening remarks: John Wood, Chief Executive, MIRA
10.15	Key note address: Malcolm Harbour MEP for W. Midlands & Co-Chair of the Forum for Automobile & Society
10.30	The Global Scene, Mr Brian Knibb, CEO Knibb Gormezano & Partners (KGP)
11.00	Competing Technologies, Mr Andrew Barnes, M.D. Powertrain Technologies Ltd (Ptech).
11.20	Tea Break
11.40	The MUSIC engine technology, Dr Dan Merritt.
12.40	Buffet Lunch.
13.30	The Energy Saving Trust project at Ptech, A. Barnes and team. - CFD Study on Air Motion and Fuel Distribution - Cylinder Head Design - Fuel Injection Strategies - Test Status
14.30	Commercialisation and marketing routes: B.Knibb KGP
15.00	Questions
15.15	Chairman's closing remarks
15.30	Tea available prior to departure.