CALL FOR PAPERS

SYMPOSIUM ON ISSUES AND PERSPECTIVES IN GROUND VEHICLE FLOWS

The 3rd Joint US-European Fluids Engineering Division Summer Meeting (FEDSM2010)
August 1-4, 2010
Montreal, Canada

Sponsored by Fluid Applications and Systems Technical Committee of the
ASME Fluids Engineering Division

PURPOSE AND SCOPE

The ground transportation industry faces important challenges associated with stringent environmental regulations related to vehicle emissions while continuously improving high standards for driveability, passenger security and comfort. Furthermore, manufacturers have to deal with a strong competitive environment and must constantly seek innovative and efficient ways to develop their vehicles and products.

In that perspective, the last decade has seen a growing interest related to the unsteady external and internal flows playing a central role in aerodynamics, thermal management, and flow induced noise issues. The understanding and control of the spatio-temporal properties of the related flows is now necessary to achieve the vehicle development targets. These challenges should be addressed by strong interaction between industry and academia.

This symposium is intended to provide a platform to exchange results, report on the latest methodologies, and identify research needs concerning advances in: physical modelling; numerical predictions; experimental approaches; and analysis of huge data fields.

The main areas of interest include, but are not limited to, the following:

- External aerodynamics: mean forces and moments, yaw effects, pass-by situations
- Aerodynamic noise: source identification, structural transmission to interior
- HVAC system: flow rates, thermal behavior, noise
- Underhood thermal management
- Fan performance and induced noise
- Water management, soiling, and other multi-phase phenomena

PAPER SUBMISSION AND SELECTION

Prospective authors are invited to submit an abstract using ASME web based tool box. The abstract should be approximately 400 words stating clearly the objectives, results and conclusions. After notification of abstract acceptance, a full manuscript is to be submitted for peer review. Accepted manuscripts will be published in the Proceedings in CD-ROM format, and have to be prepared according to the ASME standard format for a conference paper (see www.asme.org). The recommended final paper length including figures is six to ten pages. Requested/selected papers will be considered for publication in the Journal of Fluids Engineering subject to the journal's peer review process.

DEADLINES

Abstract submission	January 15, 2010
Author notification of abstract acceptance	January 29, 2010
Full length paper due	April 2, 2010
Paper review completion date	May 7, 2010
Submission of ASME copyright form	May 14, 2010
Final paper submission	June 4, 2010

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