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SAE 2013 AeroTech Congress & Exhibition

Technical Session Schedule

Thursday, September 26

Unmanned Aerial Systems - Propulsion
(Session Code: ATC1402)

Room 511C 10:30

This session discusses UAV propulsion systems development and performance. All propulsion systems will be considered, from solar to fuel cell, to turbine. Propulsion alternatives for small airborne vehicles will be also discussed. Reliability, performance, and integration of existent UAV propulsions technologies will be addressed. New engine technology, new designs, or even new fundamental research and propulsion concepts are also of interest.

Organizers - Michael K. Kisska, Boeing Co.; Piergiovanni Marzocca, Clarkson University; Michele Trancossi, Universita di Modena e Reggio Emilia
Chairpersons - Michael K. Kisska, Boeing Co.; Michele Trancossi

Time	Paper No.	Title
10:30	ORAL ONLY	Parametric CFD Study of the Coanda Based Thrust Vectoring Nozzle Dean Vucinic, Anna Suñol Suñol Jiménez, Vrije Universiteit Brussel; Michele Trancossi
11:00	2013-01-2302	Computational Study of Coanda Adhesion Over Curved Surface Maharshi Subhash, Antonio Dumas, University of Modena and Reggio Emilia
11:30	2013-01-2303	Propulsion of Photovoltaic Cruiser-Feeder Airships Dimensioning by Constructal Design for Efficiency Method Antonio Dumas, Mauro Madonia, Michele Trancossi, Università di Modena e Reggio Emilia; Dean Vucinic, Vrije Universiteit Brussel
12:00	2013-01-2304	Investigation of Small Scale Pulsed Detonation Engines and Feasibility Study for Implementation with Disposable Unmanned Aerial Systems Richard Brian Cain, Patrick Browning, Wade Huebsch, Jay Wilhelm, West Virginia University
	2013-01-2305	Design of a Fast Responding Start-Up Mechanism for Bi-Propellant Fueled Engine for Miniature UAV Applications (Written Only -- No Oral Presentation) Jonas Galle, Sebastian Verhelst, Ghent University

The papers in this session are available in SAE Technical Paper Collection, COLL-TP-00370, and also individually. To purchase visit collections.sae.org

Planned by Unmanned Aerial Systems Committee / EMB Air and Space Group