ADT Announces Key Speakers and Turbocharger Efficiency Workshop at the IQPC’s 7th International Conference of Advanced Downsizing and Turbocharging

Advanced Design Technology (ADT), a global leader in the development of advanced turbomachinery design methods and the TURBOdesign Suite is delighted to announce Professor Mehrdad Zangeneh as Speaker and Workshop Host for the 7th International Conference of Advanced Downsizing and Turbocharging at NH Frankfurt Moerfelden Germany on the 20-21 January 2015.

LONDON, UK and NEW YORK, NY, USA (PRWEB UK) 9 January 2015 -- The major drivers in the automotive industry these days are the current emission legislation and environmental trends. In order to meet the 2020 CO2 Road map goals the automotive industry needs to come up with innovations and solutions such as hybrid, electric and exhaust energy recovery systems. According to the conference organisers “IQPC’s 7th International Conference “Advanced Turbocharging and Downsizing” will bring together experts from all levels of the value chain to ensure maximum knowledge transfer and professional exchange.”

Professor Mehrdad Zangeneh, Founder and Managing Director at ADT, as well as Professor of Thermofluids at University College London will be presenting on Tuesday 20th January at 3:50pm covering 'Multidisciplinary Optimization and Increasing Pulse Energy Recovery of Radial Turbocharger Turbines based on Inverse Design Method'. The presentation will include:

• Evaluation of multiple performance requirements including high efficiency, low stress, low inertia and high vibration frequencies
• Blade parameterisation and optimization techniques including data reduction and response surface modelling
• Impeller design concepts for increasing energy recover over the pulse

Professor Zangeneh will also be hosting a workshop session on Tuesday 20th January at 5:10pm on 'Application of 3D inverse design method to improve turbocharger compressor and turbine efficiency'. Subjects covered in the workshop include:

• How and why impeller efficiency can be improved by 3D inverse design
• The advantages of using 3D inverse design in automatic optimization
• How inverse design can be used to optimize turbine geometry for a given engine pulse shape
• How 3D inverse design can be used for Multidisciplinary optimization of radial and mixed flow turbines

“Turbocharger component efficiency is the most-cost effective and immediate solution to improve overall turbocharger efficiency and reduce fuel consumption and CO2 emissions,” comments Professor Zangeneh, “At ADT we supply and support major turbocharger manufacturers in the automotive, heavy duty, marine and racing industries by supplying advanced design and optimization tools and/or design services for superior turbocharger performances.”

Registrations for the event are now open for limited places, for more information please visit http://www.adtechnology.co.uk/news/events/adt-event-downsizing

TURBOdesign Suite System Requirements, Availability and Pricing
TURBOdesign Suite 5.2.3 in now available for download, the Suite runs on Windows systems. It operates on
mid-range workstations with 2.4 Ghz or better processors, 2 GB RAM and 1Gb disk space. The TURBOdesign Suite is sold in modules starting from $15,000 USD with software training and technical support included.

About Advanced Design Technology
Advanced Design Technology (ADT) is a global leader in the development of advanced turbomachinery design methods, which helps not only to shorten development time but also to improve the performance of turbomachinery components. ADT’s aim is to put designers in direct control of the aerodynamic design and to shorten, considerably, the design time and time to market for a range of turbomachinery products. ADT’s clients, who represent some of the leading global players in the aerospace, automotive, power generation and marine fields, have achieved significant returns on investment in terms of reduction in design times, higher performance and ease of know-how transfer among different design teams and projects. For more information, call +44 (0) 20 7299 1170 or visit http://www.adtechnology.co.uk.
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