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Powertrain Systems and Fuels Group Conference

16-17 May 2018 Twickenham Stadium, London



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THE 13TH INTERNATIONAL CONFERENCE ON TURBOCHARGERS AND TURBOCHARGING

17-18 May 2018, Twickenham Stadium, London

JOIN THE 13TH EDITION OF THE ACCLAIMED INTERNATIONAL CONFERENCE ON TURBOCHARGERS AND TURBOCHARGING. THIS UNIQUE EVENT ATTRACTS OVER 240 ATTENDEES FROM COUNTRIES INCLUDING UK, FRANCE, GERMANY, CHINA, JAPAN, USA AND MANY MORE.

Downsizing and downspeeding development for spark ignition, compression ignition and hybrid engines will be the focus for 2018, as these are the fundamental ways to meet current emission legislations and environmental trends for reducing CO_2 . Focusing on air management solutions and improvements in overall engine reliability, durability and compactness, this conference will examine the new systems developments being implemented.

KEY PROGRAMME HIGHLIGHTS:

- E-Boosting Systems, Fuel Cells, Transient Response and Altitude Performance, Interaction with Hybrid
- Compressors: Aerodynamics and Flow Analysis of CFD, Optimisation and Multi-Physics
- Improved Strength, Fatigue Life, Bearing Design, Rotodynamic and Materials
- Simulation Modelling, Cost Effective Optimisation
- Turbine: Aerodynamics and Flow Analysis of CFD, Optimisation, Multi-Physics and T/C CHT
- Novel Testing/Measurement Methods and Validation for Simulation
- Single, Two-Stage, VTG, Supercharged, Parallel/Sequential, Turbo-Compound, WHR, EGR and Cylinder Deactivation Systems

WHAT TO EXPECT IN 2018:

- 9+ hours of networking time
- 17+ hours of technical presentations with opportunities for questions to the speaker panel
- 42 presenting authors from 28 companies and 2 keynote addresses
- International audience -15 different countries attended in 2016
- Peer reviewed by industry experts and academic thought leaders

ORGANISING/ADVISORY COMMITTEE:

Powertrain Systems and Fuels Group Institution of Mechanical Engineers

MEMBERS CREDITS:

Prof Ricardo Martinez-Botas

Imperial College

Prof Joerg Seume Leibniz Universitaet Hannover

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Prof Roland Baar **Technische Universität Berlin**

Prof Stephen Spence **Queen's University Belfast**

Dr Ennio Codan **ABB**

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Dr Seiichi Ibaraki Mitsubishi Heavy Industries Limited Jan-Christoph Haag MAN Trucks UK

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Andrew Banks **Ricardo**

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Nathan McArdle Borgworner

Steve Johnson Ford Motor Company

Alan Baker Jaguar Land Rover

Takashi Mori **IHI**

DAY 1	WEDNESDAY 16 MAY 2018	
08:30	REGISTRATION AND REFRESHMENTS	
09:00	CHAIR'S OPENING REMARKS Dr Kian Banisoleiman, Lloyd's Register EMEA	
09:15 KEYNOTE	GILLES SIMON, TECHNICAL DIRECTOR, FIA	
09:45	KEYNOTE QUESTION AND ANSWER	
	E-BOOSTING SYSTEMS, FUEL CELLS, PERFORMANCE, INTERACTION WITI Session Chair: Prof Joerg Seume, Leibniz U	TRANSIENT RESPONSE AND ALTITUDE H HYBRID niversitaet Hannover
09.55	TWO-STACE FILEL CELL FLECTBIC C	OMDERSSOR
00.00	Gee, Mark; Mason, John; Matsuzaki, Ryoken; Eguchi, David; Lotterman, Jefferey; Donato, Brent; Beresewicz, Patrick, Honeywell Transport Systems, USA	
10:15	PRELIMINARY DESIGN OF A PARTIAL ADMISSION TURBINE FOR WASTE HEAT RECOVERY IN FUEL CELLS Fischer, Tore; Willers, Ole W; Seume, Joerg R, Institute of Turbomachinery and Fluid Dynamics, Germany	
10:35	QUESTION AND ANSWER SESSION	
10:50	NETWORKING REFRESHMENT BREAK	
11:20	COMPARATIVE SYSTEM LEVEL ASSESSMENT OF DIFFERENT ELECTRIC BOOSTING ARCHITECTURES Vankayala, Sujeet, Honeywell Technology Solution Lab Pvt Ltd, Roux, Jean Sebastien; Jeckel, Denis; Davies, Peter, Honeywell Transportation systems, Thaon-Les-Vosges, France and Haug, Peter, Honeywell Transportation systems, Torrance, USA	
11:40	ANALYSIS OF A HIGHLY DOWNSIZED GASOLINE ENGINE OPERATING AT LAMBDA 1 Bassett, Michael; Vogler, Christian; Taylor, James; Hall, Jonathan; Gray, Kevin, MAHLE Powertrain Limited, United Kingdom	
12:00	TURBOCHARGER COMPRESSOR DEVELOPMENT FOR UNMANNED AERIAL VEHICLES	
12.20	OUESTION AND ANSWER SESSION	OUESTION AND ANSWER SESSION
12:25	NETWODVING LUNCH	
12.30	COMPRESSORS: AFRODYNAMICS	IMPROVED STRENGTH FATIGUE
	AND FLOW ANALYSIS OF CFD, OPTIMISATION AND MULTI- PHYSICS	LIFE, BEARING DESIGN AND ROTODYNAMIC AND MATERIALS Session Chair: Steve Birnie, BorgWarner
	Session Chair: Michael Dolton, Cummins Turbo Technologies	
13:35	VARIABLE GEOMETRY COMPRESSOR DEVELOPMENT TO IMPROVE OPERATING RANGE AND EFFICIENCY FOR AUTOMOTIVE TURBOCHARGER Fujiwara, Takashi; Bamba, Takahiro; Numakura, Ryuusuke; Sasaki, Yuuji; Yokoyama, Yusei, Vehcular Turbochager Business Unit/IHI Corporation, Japan	THERMAL HYDRAULIC COUPLING OF FLOATING RING BEARINGS IN TRANSIENT RUN-UP SIMULATIONS Baldauf, Michael; Tuzcu, Dr. Sedat; Klaus, Dr. Michael, Continental Automotive GmbH, Germany: Rienäcker, Prof. Adrian, University Kassel, Germany
13:55	FLOW RANGE OF VARIABLE CROSS-SECTION COMPRESSORS Fischer, Tore; Kleine Sextro, Thorsten; Seume, Joerg R, Institute of Turbomachinery and Fluid Dynamics, Germany and Flinte, Jan Eilts, Peter, Institute of Internal Combustion Engines, Germany	REDUCTION OF ON-ROAD TURBOCHARGER SUB-SYNCHRONOUS RESPONSE USING TAPERED AND LOBED BEARINGS Ashton, Zachary; Bischof, Kenneth, BorgWarner Turbo, USA
14:15	NUMERICAL INVESTIGATION OF COMPRESSOR WHEEL AND INLET DUCT GEOMETRY INFLUENCE ON TURBOCHARGER COMPRESSOR SURGE Eißler, Werner; Bamberg, Stephan; Rusche, Stefan, Hochschule RheinMain University of Applied Sciences, Germany	STABILITY OPTIMISATION OF TURBOCHARGER ROTOR-FLOATING RING BEARING SYSTEM: A COMBINATION OF LINEAR AND NONLINEAR APPROACHES Tian, Liang; Wakelin, Matthew; Lancaster, Craig Cummins Turbo Technologies, United Kingdom: Lu, Yi, Wuxi Cummins Turbo Technologies, People's Republic of China and Ramamoorthy, J.M., Cummins Turbo Technologies, India

14:35	ON THE EFFECT OF ENGINE PULSATIONS ON THE PERFORMANCE OF A TURBOCHARGER COMPRESSOR Barrera-Medrano, Maria Esperanza; Martinez-Botas, Ricardo F, Imperial College London, United Kingdom and Tomita, Isao; Ibaraki, Seiichi, Mitsubishi Heavy Industries Ltd	DURABILITY PREDICTION TECHNIQUE FOR HIGH ROTATIONAL SPEED COMPRESSOR WHEEL IN AUTOMOTIVE TURBOCHARGERS Akamoto, Keigo; Fujita, Yutaka, Mitsubishi Heavy Industries, Ltd., Japan And Ebisu, Motoki, Mitsubishi Heavy Industries Engine And Turbocharger, Ltd., Japan
14:55	QUESTION AND ANSWER SESSION	QUESTION AND ANSWER SESSION
15:10	NETWORKING REFRESHMENT BREAK	
15:40	INDUCER DESIGN OF CENTRIFUGAL IMPELLERS Hazby, Hamid; Robinson, Chris PCA Engineers Ltd., United Kingdom	DEVELOPMENT OF HIGH TEMPERATURE MATERIAL CONSTITUTIVE MODEL FOR THERMO- MECHANICAL FATIGUE (TMF) LOADINGS IN TURBOCHARGERS Kulkarni, Avadhoot, Honeywell, USA: Rajkumar, G; Honeywell, USA and Kannusamy, Ragupathy; Kumar, Amit Honeywell Tech Solutions Lab Pvt Ltd, India
16:00	FURTHER DEVELOPMENT OF A HIGH-EFFICIENCY COMPRESSOR STAGE SUITED TO POST EURO VI EMISSIONS AND FUEL ECONOMY LEGISLATION Lotz, Robert; Andrews, David; McHenry, Joseph; VanSaun, Daniel; Watson, John, Borg Warner Turbo Systems, USA	THE TRIBOLOGICAL PERFORMANCE OF COATED AND NON-COATED MATERIALS IN HIGH TEMPERATURE ENVIRONMENTS Chinchilla Adell, Raul Francisco; Proprentner, Daniela; Shollock, Barbara, Warwick Manufacturing Group, The University of Warwick, Coventry, United Kingdom: Burkinshaw, Michael; Lindsay, Martin, Cummins Turbo Technologies (CTT), Huddersfield, United Kingdom
16:20	AUTOMATED TURBOCHARGER COMPRESSOR DEVELOPMENT AT DAIMLER TRUCKS Wöhr, Michael; Palenschat, Torsten; Schneid, Markus; Dillmann, Andreas; Harsha, Vivek; Markus, Müller, Daimler Ag, Germany	THE DEVELOPMENT OF A LEAD-FREE CORROSION RESISTANT BEARING SYSTEM FOR TURBOCHARGER APPLICATIONS Burkinshaw, Michael; Franks, Louise; Quayle, Rachel, Cummins Turbo Technologies, United Kingdom
	SIMULATION MODELLING, COST EFF Session Chair: Takashi Otobe, Honda R&D	ECTIVE OPTIMISATION
16:40	IMPLEMENTATION OF HEAT TRANSFERS IN TURBOCHARGER MODELS IN A SYSTEM SIMULATION CONTEXT Sanguinetti, Thomas; Thomas, Vincent, Siemens Industry Software S.A.S., France: Chesse, Pascal; Perrot, Nicolas, Ecole Centrale de Nantes, France and Talon, Vincent, Renault Nissan Alliance, France	THE APPLICATION OF ADDITIVE MANUFACTURING TO TURBOMACHINERY Burkinshaw, Michael, Cummins Turbo Technologies, United Kingdom, and Boig, Charlotte Amelia; Todd, Iain, University Of Sheffield, United Kingdom
17:00	QUESTION AND ANSWER SESSION	QUESTION AND ANSWER SESSION
17:15	CHAIR'S CLOSING REMARKS Kian Banisoleiman, Llovd's Register	
17:30	CLOSE OF CONFERENCE DAY ONE	
18:30	EVENING DRINKS RECEPTION (registration required)	
19:30	NETWORKING DINNER (registration required)	

For the most up-to-date and detailed programme for the event, please visit www.imeche.org/turbo

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DAY 2	THURSDAY 17 MAY 2018	
08:30	REGISTRATION AND REFRESHMENTS	
09:00	CHAIR'S OPENING REMARKS	
09:10 KEYNOTE	SPEAKER TO BE ANNOUNCED	
09:40	KEYNOTE QUESTION AND ANSWER SESSION	
	TURBINE: AERODYNAMICS AND FLOW ANALYSIS OF CFD, OPTIMISATION, MULTI-PHYSICS AND T/C CHT Session Chair: Peter Davies, Honeywell	NOVEL TESTING/MEASUREMENT METHODS AND VALIDATION FOR SIMULATION Session Chair: Dr Ennio Codan, ABB
09:50	MULTI-INJECTION TURBINE HOUSING: A NOVEL CONCEPT FOR PERFORMANCE IMPROVEMENT IN RADIAL TURBINES Liu, Hao; Romagnoli, Alessandro, Nanyang, Technological University, Singapore: Muhammad, Izzal Ismail; Martinez-Botas, Ricardo, Imperial College London, United Kingdom and Padzillah, Hasbullah; Rajoo, Srithar, Universiti Teknologi Malaysia, Johor Bahru, Malaysia	IMPACT OF THE TURBINE FLOW CONDITION OF DOUBLE ENTRY TURBINES ON THE WASTEGATE'S DISCHARGE BEHAVIOUR Stadermann, Max; Falke, Felix, Institute for Combustion Engines RWTH Aachen University, Germany and Lückmann, Dominik; Aymanns, Richard, FEV Europe GmbH, Germany
10:10	OPTIMISATION OF WASTEGATE BYPASS FLOW RE-INTRODUCTION FOR INCREASED TURBINE STAGE EFFICIENCY Hasler, Craig Stuart Thornhill Cummins Turbo Technologies, United Kingdom	TWIN-SCROLL TURBOCHARGER TURBINE STAGE EVALUATION OF EXPERIMENTAL DATA AND SIMULATIONS Anton, Nicholas; Fredriksson, Carl; Larsson, Per-Inge, Scania CV AB, Sweden: Genrup, Magnus, Lund Faculty of Engineering, Sweden and Christiansen-Erlandsson, Anders, Royal Institute of Technology, Sweden
10:30	OPTIMIZATION OF NOZZLE VANE SURFACE TREATMENT USING MULTI-GROOVES TO MITIGATE SHOCK WAVE FOR A VARIABLE NOZZLE TURBINE Shi, Xin; Li, Fengming; Qi, Mingxu, Beijing Institute of Technology, People's Republic of China and Zhao, Ben, Michigan State University, USA	COMPRESSOR PRESSURE INVESTIGATION OF SURGE ONSET AT STEADY AND UNSTEADY OPERATIONS OF AN AUTOMOTIVE TURBOCHARGER Avola, Calogero; Duda, Tomasz; Dimitriou, Pavlos; Burke, Richard; Copeland, Colin, University of Bath, United Kingdom
10:50	QUESTION AND ANSWER SESSION	QUESTION AND ANSWER SESSION
11:05	NETWORKING REFRESHMENT BREAK	
	TURBINE: AERODYNAMICS AND FLOW ANALYSIS OF CFD, OPTIMISATION, MULTI-PHYSICS AND T/C CHT	SINGLE, TWO-STAGE, VTG, SUPERCHARGED, PARALLEL/ SEQUENTIAL, TURBO-COMPOUND, WHR, EGR, CYLINDER DEACTIVATION SYSTEMS Session Chair: Dr Kian Banisoleiman, Lloyd's Register EMEA
11:35	OPTIMIZATION OF A VARIABLE TURBINE GEOMETRY FOR TURBOCHARGING A HYBRID OPTIMIZED GASOLINE ENGINE Keich, Sebastian; Florian, Frese; Dirk, Hagelstein, Volkswagen Ag, Germany and Baar, Roland, TU Berlin, Germany	THERMODYNAMIC ADVANTAGES AND CHALLENGES OF A PARALLEL SEQUENTIAL TWIN BOOSTING SYSTEM ON A HIGH EFFICIENCY 1.0 L CNG ENGINE Sterr, Michael; Slavic, Sasa; Sandor, Ivo; Al-Hasan, Nisar; Ehrhard, Jan, Continental Automotive GmbH, Germany and Kramer, Ulrich; Stump, Ludwig, Ford-Werke GmbH, Germany
11:55	IMPROVEMENT OF MONOBLOCK BY-PASS VALUE FOR SEALING, CONTROLLABILITY AND CATALYSTR LIGHT OFF Marsal, Damien, Honeywell, France and Tomanec, Filip; Zatko, Miroslav; Ondrejka, Adam; Forbelsky, Antonin, Honeywell, Czech Republic	A DIRECT COMPARISON AMONG DIFFERENT LAYOUTS OF REGULATED TWO-STAGE TURBOCHARGING SYSTEM IN A HEAVY DUTY DIESEL ENGINE Gu, Yuncheng; Yang, Mingyang; Deng, Kangyao; Shi, Lei, Shanghai Jiao Tong University, Shanghai, People's Republic of China : Yang, Zhenhuan, North Engine Research Institute, Tianjin, People's Republic of China and Wang, Junjun. Dongfeng Motor Corperation, Wuhan, People's Republic of China

12:15	VALIDATION OF MEANLINE PERFORMANCE PREDICTION METHOD FOR RADIAL AND MIXED FLOW TURBINE Gao, Yang; Petrie-Repar, Paul, KTH Royal Institute of Technology, Sweden	DESIGN AND TESTING OF A MECHANICALLY DRIVEN TURBOCHARGER FOR IMPROVED EFFICIENCY AND DRIVABILITY Sherrill, Ryan; Brown, Jared; Waldron, Thomas, SuperTurbo Technologies, USA	
12:35	QUESTION AND ANSWER SESSION	QUESTION AND ANSWER SESSION	
12:50	NETWORKING LUNCH		
13:50	TURBOCHARGER TURBINE AERODYNAMIC OPTIMIZATION FOR REDUCED FUEL CONSUMPTION AND CO2 EMISSIONS FROM HEAVY-DUTY DIESEL ENGINES: EXPERIMENTAL VALIDATION AND FLOW FIELD ANALYSIS Ioannou, Eleni; Costall, Aaron William; Khairuddin, Uswah, Imperial College London, Mechanical Engineering Dept, London, United Kingdom and Ramasamy, Prabhu; Haigh, Edward, Industrial Power Systems Division, Caterpillar United Kingdom	GASOLINE VTG – A NEW TREND FOR GASOLINE MILLER ENGINES? Christmann, Ralf; Gugau, Marc; Weiske, Sascha, BorgWarner Turbo Systems, Germany	
14:10	CHT-SIMULATION ON A TURBOCHARGER TURBINE WITH RESOLUTION OF THE AMBIENT CONVECTIVE HEAT FLOW Gao, Xunan; Savic, Bojan; Baar, Roland, Technical University of Berlin, Germany	LOW LOAD OPTIMIZED AIR MANAGEMENT FOR LARGE 2-STROKE ENGINES Ryser, Raphael; Mathey, Christoph, ABB Turbo Systems Ltd., Switzerland	
14:30	STEADY AND TRANSIENT CONJUGATE HEAT TRANSFER OF A TURBOCHARGER Dimelow, Andrew, Cummins Turbo Technologies, United Kingdom	VEHICLE APPLICATION OF A PARALLEL-SEQUENTIALLY TURBOCHARGED GASOLINE ENGINE, EQUIPPED WITH SWITCHABLE EXHAUST VALVES Stoffels, Harald; Wojahn. Jens; Brinkmann, Franz; Grieser, Klemens; Hohenboeken; Konieczyn, Thomas; Weber, Carsten, Ford Werke GmbH, Germany	
14:50	QUESTION AND ANSWER SESSION	QUESTION AND ANSWER SESSION	
15:05	NETWORKING REFRESHMENT BREAK		
	TURBINE: AERODYNAMICS AND FLO MULTI-PHYSICS AND T/C CHT Session Chair: Peter Davies, Honeywell	W ANALYSIS OF CFD, OPTIMISATION,	
15:25	PERFORMANCE AND FLOW ANALYSIS OF A MIXED FLOW TURBINE WITH TWIN-ENTRY NOZZLED VOLUTE Xue, Yingxian; Yang, Mingyang: Deng, Kangyao, Shanghai Jiao Tong University, People's Republic of China: Romagnoli, Alessandro, Nanyang Technology University, Singapore and Martinez-Botas, Ricardo, Imperial College London, United Kingdom		
15:45	NUMERICAL STUDY OF THE QUASI-STEADY APPROACH APPLIED TO AN ASYMMETRIC TWIN-SCROLL VOLUTE TURBOCHARGER TURBINE FOR A HEAVY DUTY DIESEL ENGINE UNDER REALISTIC BOUNDARY CONDITIONS Palenschat, Torsten; Cortell, Jose Francisco; Newton, Peter; Martinez-Botas, Ricardo F; Imperial College London, United Kingdom: Mueller, Markus, Daimler AG, Germany and Rajoo, Srithar, Universiti Teknologi Malaysia, Malaysia		
16:05	AEROTHERMODYNAMICS AND EXERGY ANALYSIS OF A TURBOCHARGER RADIAL TURBINE INTEGRATED WITH EXHAUST MANIFOLD Lim, Shyang Maw; Dahlkild, Anders; Mihaescu, Mihai; Competence Center For Gas Exchange (Ccgex), Linné Flow Centre (Flow), Mechanics Department, KTH Royal Institute Of Technology, Sweden		
16:25	QUESTION AND ANSWER SESSION		
16:40	CLOSING REMARKS Dr Kian Banisoleiman, Lloyd's Register EMEA		
17:00	CLOSE OF CONFERENCE		

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- Simulation Engineer
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Chief Engineer, Ricardo

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Test Engineer, Cummins Turbo Technologies

"LONDON 2016 BROUGHT TOGETHER THE KEY INTERNATIONAL LEADERS AND RESEARCHERS TO DEBATE THE RECENT ADVANCES AND FUTURE CHALLENGES OF THE TURBO INDUSTRY."

Senior Director Powertrain, Honeywell

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