Numeca International
USER MEETING 2017

AGENDA

Monday November 13th

PLENARY SESSION

Inspiring the Way to Multiphysics and Optimization	Prof. Charles Hirsch, *NUMECA International*
Numeca at ArianeGroup	Guillaume Challier, *ArianeGroup*
NUMECA Recent Developments and short term Perspectives	Marc Tombroff, *NUMECA International*
New Generation of NUMECA Software Environment: OMNIS Multiphysics Platform	Marc Tombroff, *NUMECA International*

Coffee break

Winning the America's Cup with FINE™/Marine	Nick Hutchins, *Emirates Team New Zealand*
Solutions for Aero & Multiphysics Industry	Jonathan Brunel, *NUMECA International*
Solutions for the Turbomachinery Industry	Yannick Baux, *NUMECA International* Peter Weitzman, *Concepts NREC*
Solutions for the Marine Industry	Benoit Mallol, *NUMECA International*
SaaS: Numeca's cloud platform	Aji Purwanto, *NUMECA International* Reha Senturk, *TheUberCloud*

LUNCH

PARALLEL SESSIONS

TURBO, AERO & MULTIPHYSICS SESSION

What's new in our Turbo solution	Yannick Baux, *NUMECA International*
FINE™/Open application for light cargo aircraft	Vitaly Gubsky, *TsAGI*
Sensitivity Study on Parameters for Wake Transmission - CROR in Cruise Conditions	Gael Napias, *ISAE Supaero*
Flow simulation of low-flow rate centrifugal compressor stages	Vladimir Neverov, *Entechmach*
Optimal blade design and test validation for a diagonal turbine	Rémi Lestriez, *Numiberica*
Study of the circumferential distortion in a centrifugal compressor	*Denis Voroshnin, NUMECA Russia*

MARINE SESSION

What's new in our Marine solution	Benoit Mallol, *NUMECA International*
Using CFD for medium & high speed vessels	Niels Kleijweg, *CoCo Yachts*
Develop vessels and compare hull shape with conventional propulsion and electric propulsion	Kasper van der Heiden, *Jumbo Maritime*
Hessian-based Adaptive Grid Refinement for Hydrodynamic Daggerboard-Rudder	Alexandro Palmieri, *Unibo*
Parametric Hull and Appendage Design for Wind Farm Installation Vessel	Harry Linskens, *DEKC Maritime*
Speed-power prediction for engineering trailing suction hopper dredgers (TSHD's)	Manuel Cerro Diaz de Teran, *Royal IHC*
Experimental Validation of RANS-CFD Methodology for Wind-Assisted Ships Operating at Leeway Angles	Nico Van der Kolk, *TU Delft*

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Tuesday November 14th

PLENARY SESSION

Introducing FINE™/LB: mesoscopic simulations made simple	Tim Odenthal, *NUMECA International*
Gearbox design and simulation	Barry James, *Romax Technologies*
Paving the Way: Unstructured Meshing Solutions	B.Mallol, Y.Baux, J.Brunel, N.Delsate, O.Arduino, *NUMECA International*
Integrated CFD Acoustics Solution for Tonal and Broadband Noise Prediction	Piergiorgio Ferrante, *NUMECA International*

Coffee break

Simulation and design of a full micro turbine engine	Yannick Baux, *NUMECA International*
Advanced Applications in Flow Engineering	Virginie Barbieux, *NUMFLO*
Uncertainty Quantification and Robust Design Optimization: various applications	Dirk Wunsch, *NUMECA International*
HPC	David Gutzwiller, *NUMECA International*

LUNCH

PARALLEL SESSIONS

TURBO, AERO & MULTIPHYSICS SESSION

Combustion Modeling in FINE™/Open with OpenLabs™	Jan Anker, *NUMECA International*
Hexpress™/Hybrid for combustion	Thijs Bouten, *OPRA Turbines*
FINE™/Design 3D results for compressor and axial pump optimization	Edward Childs, *Concepts NREC*
Modeling industrial burners with FINE™/Open	Cosmin Katona, *Europem*
Aerodynamic predictions of the NASA-CRM case for Jaxa workshop	Jonathan Brunel, *NUMECA International*
Modeling of unsteady phenomena in an axial compressor	*Denis Voroshnin, NUMECA Russia*

MARINE SESSION

Validation of Wind Loads on a Slender Vessel using CFD	Marco Bovio, *DAMEN Group*
Hydrodynamic comparison of T-shaped rudders	Xavier Guisnel, *VPLP Design*
FINE™/Marine applied to manoeuvrability and vortex detection	Romain Huret, *Sirehna*
Propeller analysis with FINE™/Marine in the Cloud	Leo Poppelier, *SIP Marine*

Numeca International
USER MEETING 2017

AGENDA

Wednesday November 15th

Optional full day of dedicated application workshops.

Get up to speed on the latest developments and modeling capabilities.

PARALLEL SESSIONS

TURBOMACHINERY SESSION	MULTIPHYSICS SESSION	MARINE SESSION
Unsteady flows with the Nonlinear Harmonic method	**Acoustics for external and internal aerodynamics**	**Propulsion simulation including FINE™/Turbo with AutoGrid5™**
Coffee break		
Acoustics for turbomachinery	**Lagrangian Combustion**	**Overset grids** **Trim optimization** **Wave generation: new guidelines**
LUNCH		
Uncertainty Quantification and Robust Design Optimization **Preliminary to detailed design**	**Uncertainty Quantification and Robust Design Optimization** **Introduction to OMNIS/HEXPRESS 2.2**	**C-Wizard in matrix mode for HPC simulations** **Latest guidelines and findings** **Rhino plugin**
Coffee break		
Multi-Disciplinary Optimization *Open Discussion*	**Introduction to OMNIS/OPEN 2.2** *Open Discussion*	**Frequently Asked Questions** *Open Discussion*