

Engineering company TESIS

International forum

Engineering systems - 2017

April 11 – 12, 2017

Program

Moscow 2017

FlowVision users' conference
Chairman – **Aleksandr Sheliaev**

Aplil 11, 2017

10:00 – 12:00

- 10:00 **Aksenov A.A.** (*TESIS, Moscow*)
Evolution of FlowVision
- 10:40 **Grishankin E.A, Kostenko I.I., Zhelezov A.G., Videneev D.S., Byvaltsev P.M.** (*TMKB "Soyuz", Lytkarino*)
Experience of using the software package FlowVision in PJSC TMKB "Soyuz".
- 11:00 **Gorshenev E.A.** (*JSC "FNPC" Titan-Barricade ", Volgograd*)
Investigation of the force loading on the elements of constructions caused by high-speed gas flow.
- 11:20 **Pyreev A.O., Tarasov Yu.A.** (*TsKB MT "Rubin", St. Petersburg*)
Mathematical modeling of the process of self-emergence of a research Underwater vehicle from a launch tube.
- 11:40 **Baluev D.E., Nikanorov O.L., Rogozhkin S.A., Shepelev S.F.** (*JSC "Afrikantov OKBM"*),
Aksenov A.A., Zhestkov M.N., Sazonova M.L. (*TESIS, Moscow*)
Study of the check valve hydrodynamics on real models and comparison with CFD calculation results

12:30 – 14:30

- 12:30 **Druzhnov A.M., Rogozhkin S.A., Salyayev A.V., Usynina S.G.** (*JSC "Afrikantov OKBM"*),
M.N. Zhestkov, V.I. Pohilko (*TESIS, Moscow*)
Application of the FlowVision for efficiency analysis of the tightness control system for the fuel elements of a fast sodium reactor.
- 12:50 **Bulysova L.A., Pugach K.S.** (*JSC "VTI ", Moscow*)
Application of CFD software FlowVision for optimization of the temperature state of the wall in combustion chamber.
- 13:10 **S. Soğancı** (*CAPVIDIA, Belgium*)
Globally featured CFD projects using FlowVision.

- 13:50 **Mitin A.L., Kalashnikov S.V.** (*TsAGI, Zhukovsky*)
Aksenov A.A., Zhlukto S.V. (*TESIS, Moscow*)
Application of the k-ε FlowVision turbulence model for the investigation of the flow around wing at low Reynolds numbers.
- 14:10 **Firsov A.A., Isaenkov Yu.I.** (*JIHT RAS, Moscow*)
Soudakov V.G. (*TsAGI, Zhukovsky*)
Buffet suppression during transonic flow around wing by means of spark discharge.

15:00 – 17:00

- 15:00 **Pechenyuk A.V.** (*Digital Marine Technology, Odessa*)
Numerical simulation of the propeller operation as part of the ship's rudder.
- 15:20 **C.J. Yu (Cloud)** (*Samwell Testing Inc., Taiwan*)
FlowVision Applications for China & Taiwan Modern industries.
- 16:20 **Dyadkin A.A.** (*TESIS, Moscow*)
The development of PrePostProcessing for FlowVision
- 16:40 **Akimov V.S., Silaev D.P., Kharchenko S.A.** (*TESIS, Moscow*),
Semenov A.S., Simonov A.S. (*NICEVT, Moscow*)
Scalability study of FlowVision operation on a cluster with Angara interconnect.

Aplil 12, 2017

10:00 – 12:00

- 10:00 **Aksenov A.A.** (*TESIS, Moscow*)
The Living Heart" project
- 10:40 **Zhestkov M.N.** (*TESIS, Moscow*)
Rusakov V.V. (*KAMAZ JSC*)
Modeling of lubricant circulation in gear transmissions.
- 11:20 **M.F. Sung** (*KENDA RUBBER IND., Taiwan*)
Using real car tests to analyze PCR hydroplaning and simulation result mapping
- 11:40 **Markova T.V.** (*TESIS, Moscow*)
Modeling of electronic equipment units cooling

12:30 – 14:30

- 12:50 **Zhluktov S.V.** (*TESIS, Moscow*)
Physical capabilities of FlowVision: overview and changes in the interface.
- 13:10 **Pohilko V.I., Byvaltsev PM,** (*TESIS, Moscow*)
Methodology of solving the problems of turbomachinery by FlowVision
- 13:30 **Moskalev I.V., Kashirin V.S.** (*TESIS, Moscow*)
Methodology of solving FSI problems.
- 13:50 **Pohilko V.I., Zhluktov S.V., Byvaltsev P.M.** (*TESIS, Moscow*)
Methodology of using OBL for aerodynamics simulation in FlowVision.
- 14:10 **Silaev D.P., Aksenov A.A.** (*TESIS, Moscow*)
Development of Computational Engineering Platform project

15:00 – 17:00

- 15:00 **Voytik A.S., Drutko K.I.** (*IRION, Minsk*),
Chernukho A.P. (*Pte Technologies, Minsk*)
Simulation of Propane Motion and Heating at the Carbon Nanotube Unit Production.
- 15: 20 **Babiy Yu.I.** (*SIGMA Technology, Moscow*)
Multidisciplinary design of LPRE using FlowVision, ANSYS and the IOSO optimization platform.
- 15: 40 **Timushev S.F.** (*Moscow Aviation Institute, Moscow*)
Centrifugal compressor simulation..
- 16: 00 **Bevza D.I., Shuraev O.P.** (*Volga State University of Water Transport*)
Some results of numerical simulation.
- 16:20 **Bevza D.I., Shuraev O.P.** (*Volga State University of Water Transport*)
Simulation of gas flow and heat transfer in a compact waste boiler
- 16:40 **Veselovsky Y.V.** (*VNSTU, Vinnitsa, Ukraine*)
Modeling of hydrodynamic processes in the pulsator valve of the hydroim-pulse drive.