

08/19/2009 Wednesday

Technical Session 8 8.30 - 9.45 AM	Cavitation in Turbomachinery	Numerical Computation of Cavitating Flows	Cavitation Erosion
	<i>Session Chair: KH Kim</i> <i>Session Co Chair: V. Serebryakov</i>	<i>Session Chair: I.Kirschner</i> <i>Session Co Chair: L.d'Agostina</i>	<i>Session Chair: JP Franc</i> <i>Session Co Chair: T. Itohagi</i>
8.30-8.55AM	<b>149</b> Mechanism and scalability of tip vortex cavitation suppression by water and polymer injection. <i>N.Chang, R.Yakushiji, H.Ganesh, S.Ceccio</i>	<b>137</b> An Examination of Thermal Modeling Affects to the Numerical Prediction of Large-Scale Cavitating Fluid Flow, <i>M. Kinzel, J. Lindau, R. Kunz</i>	<b>67</b> Numerical prediction of cavitation erosion in cavitating Flow, <i>N. Ochiai, Y. Iga, M. Nohmi, T. Itohagi</i>
8.55-9.20 AM	<b>122</b> Simulation of cavitation instabilities in inducers, <i>A. Hosangadi, V. Ahuja, R. Ungewitter</i>	<b>141</b> Numerical Prediction of Cavitation and Pressure Fluctuation around Marine Propeller, <i>K. Sato, A. Ohshima, H. Egashira, S. Takano</i>	<b>180</b> On some physics to consider in numerical simulation of erosive cavitation, <i>G. Bark, M. Grekula, R. Bensow, N. Berchiche</i>
9.20-9.45 AM	<b>40</b> Analytical investigations of thermodynamic effect on cavitation characteristics of sheet and tip leakage vortex cavitation, <i>S. Watanabe, A. Furukawa, Y. Yoshida, Y. Tsujimoto</i>	<b>116</b> Numerical modeling of cavity flow on bottom of a stepped planing hull, <i>M. Makasyeyev</i>	<b>131</b> Modeling collapse aggressiveness of cavitation bubbles in hydromachinery, <i>P. Zima, M. Sedlář, M. Müller</i>
Technical Session 9 10.05 - 11.20 AM	Numerical Computation of Cavitating Flows	Advanced Experimental Techniques	Bubble Dynamics
	<i>Session Chair: T.Colonius</i> <i>Session Co Chair: G.Bark</i>	<i>Session Chair: T. Van Terwisga</i> <i>Session Co Chair: J.Katz</i>	<i>Session Chair: W.Straka</i> <i>Session Co Chair: H.Takahira</i>
10.05-10.30 AM	<b>42</b> Investigation on numerical schemes in the simulation of barotropic cavitating flows, <i>B. Marco, B. François, S. Maria-Vittoria</i>	<b>35</b> Application of computer vision techniques to measure cavitation bubble volume and cavitating tip vortex diameter., <i>L. Savio, M. Viviani, F. Conti, M. Ferrando</i>	<b>157</b> Model for the oscillations of the shell of a contrast agent, liquid and solid cases, <i>J. Naude, F. Mendez</i>
10.30-10.55 PM	<b>138</b> A dual-time implicit preconditioned Navier-Stokes method for solving 2D steady/unsteady laminar cavitating/noncavitating flows using a Barotropic model, <i>K. Hejranfar, E. Ezzatneshan, K. Hesary</i>	<b>58</b> Determination of the tensile strength and the nuclei spectrum by means of the In-Situ-Nozzle, <i>N. Hamadeh, P. Pelz, B. Stoffel, G. Ludwig</i>	<b>183</b> Incepting cavitation acoustic emissions due to vortex stretching <i>N.Chang, S.Ceccio</i>
10.55-11.20 PM	<b>87</b> Assessment of a central difference finite volume scheme for modeling of cavitating flows using preconditioned multiphase Euler equations, <i>K. Hejranfar, K. Hesary</i>	<b>179</b> Cavitation phenomena in a stagnation point flow, <i>Y. Lu, B. Gopalan, E. Celik, J. Katz, D. Van Wie</i>	<b>167</b> Gas bubble growth dynamics in a supersaturated solution: Henry's and Sievert's solubility laws, <i>A. Kuchma, G. Gor, F. Kuni</i>
Technical Session 10 11.40 - 12.30 PM	Cavitation in Cryogenics	Numerical Computation of Cavitating Flows	Super-cavitation
	<i>Session Chair: D.Dowling</i> <i>Session Co Chair: Y. Matsumoto</i>	<i>Session Chair: T.Itohagi</i> <i>Session Co Chair: W.Shyy</i>	<i>Session Chair: KH Kim</i> <i>Session Co Chair: M.Farhat</i>
11.40-12.05 PM	<b>102</b> A Multi-scale study on the bubble dynamics of cryogenic cavitation, <i>S. Tsuda, S. Takeuchi, Y. Matsumoto, M. Koshi, N. Yamanishi</i>	<b>175</b> Design of cavitation-free hydrofoils by a given pressure envelope, <i>D. Maklakov, F. Avkhadiev</i>	<b>111</b> Investigation of the behavior of ventilated supercavities, <i>E. Kawakami, M. Williams, R. Arndt</i>
12.05-12.30 PM	<b>65</b> Thermo-fluid dynamic experiment of He II cavitating flow, <i>M. Murakami, K. Harada</i>	<b>68</b> Study on unsteady cavitating flow simulation around marine propeller using a RANS CFD code, <i>K. Kimura, T. Kawamura, Z. Huang, A. Fujii, T. Taketani</i>	<b>21</b> Supercavitating motion of a wedge in a jet, <i>Y. Antipov, A. Zemlyanova</i>
12.30-12.55 PM			<b>86</b> Drag reduction for high-speed underwater vehicles, <i>I. Nesteruk</i>