

08/20/2009 Thursday

Technical Session 11 9.30 - 10.45 AM	Bubble Dynamics	Cavitation in Turbo-machinery	Hydrodynamic Cavitation
	<i>Session Chair: KH Kim Session Co Chair: W.Straka</i>	<i>Session Chair: M.Farhat Session Co Chair: I.Kirschner</i>	<i>Session Chair: H. Kato Session Co Chair: Y. Tsujimoto</i>
9.30-9.55 AM	<b>124</b> Cavitation of JP-8 fuel in a converging-diverging nozzle: Experiments and modelling, <i>I. Dorofeeva, F. Thomas, P. Dunn</i>	<b>11</b> A water test facility for liquid rocket engine turbopump cavitation testing <i>D. Ehrlich, J. Schwille</i>	<b>153</b> Numerical modeling of tip vortex cavitation modification using polymer solutions, <i>C. Hsiao, Q. Zhang, G. Chahine</i>
9.55-10.20 AM	<b>127</b> Numerical simulation of three-dimensional cavitation bubble oscillations by boundary element method, <i>K. Afanasiev, I. Grigorieva</i>	<b>90</b> Generality of rotating partial cavitation in two-dimensional cascades, <i>B. An, T. Kajishima, K. Okabayashi</i>	<b>152</b> Experimental study of the effects of viscosity and viscoelasticity on a line vortex cavitation, <i>C. Barbier, G. Chahine</i>
10.20-10.45 AM	<b>143</b> Prediction of tip vortex cavitation inception on marine propellers at an early design stage, <i>J. Hundemer, M. Abdel-Maksoud</i>	<b>151</b> Numerical Investigation of Cavitating Flow through the Cascade of Arbitrary Foil, <i>A. Terentiev</i>	<b>135</b> Cavitation analysis of a double acting podded drive during ice milling, <i>R. Sampson, M. Atair, N. Sasaki</i>
Technical Session 12 11.10 - 12.25 PM	Numerical Computation of Cavitating Flows	Bio-medical Applications	Cavitation in Power Systems
	<i>Session Chair: G.Chahine Session Co Chair: I.Kirschner</i>	<i>Session Chair: D.Dowling Session Co Chair: Y. Matsumoto</i>	<i>Session Chair: J. Wang Session Co Chair: Y.Tsujimoto</i>
11.10-11.35 AM	<b>139</b> Vorticity confinement methods for cavitating flows, <i>T. Hachmann, U. Lantermann, M. Abdel-Maksoud, D. Hänel</i>	<b>173</b> Numerical study on the surface stability of an encapsulated microbubble in the ultrasound field, <i>Y. Liu, K. Sugiyama, S. Takagi, Y. Matsumoto</i>	<b>22</b> Numerical prediction and experimental verification of cavitation of Globe type Control Valves., <i>Rammohan S, Saseendran S, Kumaraswamy S</i>
11.35-12.00 PM	<b>43</b> The partial cavity on a 2D foil revisited, <i>M. Hoekstra, G. Vaz</i>	<b>109</b> Microbubble disruption by ultrasound and induced cavitation phenomena, <i>Y. Tomita, R. Uchikoshi, T. Inaba, T. Kodama</i>	<b>64</b> Evaluation of incipient cavitation erosion for pipe wall at downstream of an orifice, <i>Y. Nagaya, M. Murase, S. Mizuyama, S. Hattori</i>
12.00-12.25 PM	<b>91</b> Cavitation in a bulb turbine, <i>J. Necker, T. Aschenbrenner, W. Moser</i>	<b>117</b> Interaction of red blood cells with arrays of laser-induced cavitation bubbles, <i>P. Quinto-Su, R. Dijkink, F. Prabowo, K. Gunalan, P. Preiser, C. Ohl</i>	<b>120</b> The classical multicomponent nucleation theory for cavitation in water with dissolved gases, <i>. Némec, F. Maršik</i>
Technical Session 13 2.25 - 3.40 PM	Numerical Computation of Cavitating Flows	Cavitation in Turbo-machinery	Hydrodynamic Cavitation
	<i>Session Chair: L.d'Agostino Session Co Chair: Y.Tsujimoto</i>	<i>Session Chair: R.Arndt Session Co Chair: B.Stoffel</i>	<i>Session Chair: H. Takahira Co Chair: K. Rozhdestvensky</i>
2.25-2.50 PM	<b>154</b> Influence of propeller presence and cavitation on a liquid nuclei population, <i>R. Raju, C. Hsiao, G. Chahine</i>	<b>12</b> Enhancement of cavitation aggressivity around a cavitating Jet by injecting low-speed water jet for cavitation shotless peening, <i>H. Soyama, K. Nishizawa, M. Mikam</i>	<b>27</b> Study on correlation between cavitation and pressure fluctuation signal using high-speed camera System, <i>J. Jung, S. Lee, J. Han</i>
2.50-3.15 PM	<b>99</b> Multiphase flow analysis of cylinder using a new cavitation model, <i>W. Park, C. Ha, C. Merkle</i>	<b>113</b> Blade load dynamics in cavitating and two phase flows, <i>M. Kjeldsen, R. Arndt</i>	<b>61</b> Cavitation patterns on a plano-convex hydrofoil in a high-speed cryogenic cavitation tunnel, <i>Y. Ito, T. Nagayama, T. Nagasaki</i>
3.15-3.40 PM	<b>62</b> Numerical investigation of cloud cavitation and cavitation noise on a hydrofoil section, <i>J. Seo, S. Lele</i>	<b>78</b> Numerical investigation of thermodynamic effect on unsteady cavitation in cascade, <i>Y. Iga, N. Ochiai, Y. Yoshida, T. Itohagi</i>	<b>66</b> Pressure-wave formation and collapses of cavitation clouds impinging on solid wall in a submerged water Jet, <i>K. Sato, Y. Sugimoto, S. Ohjimi</i>