

9. Workshop Kavitation, Program

01.11. Wednesday arrival from 2.00 pm

6.15 pm Dinner

7.30 pm Get Together Weinstube Kloster Drübeck

02.11. Thursday

7.00-8.00 am Breakfast

8.50 am Welcoming

Application

9.00	Jan Groschopp	Tests zur Reinigung haufwerksporiger Betonsteine mittels hydrodynamischer Kavitation
9.15	Sven Osterland	Cavitation and Cavitation Erosion in Hydro"static" Applications
9.30	Ulf Bauerschaefer	Untersuchung der Jet-Inversion von Laser generierten Kavitationsblasen an gefangenen freien Gas-Oberflächen unter Wasser
9.45	Jonas Kühlmann	Single-bubble cavitation-induced pitting on technical alloys
10.00	Ulrich Heise	Detection of cavitation effects at hydraulic pumps

10.15 am Coffee Break

Hydrodynamic Cavitation/
Multibubble Systems

10.45	Yuxing Lin	Hydroelasticity effects on cavitating flows around hydrofoils considering passive flow control methods
11.00	Bettar el Moctar	Multi-Scale Euler-Lagrange Simulations of Compressible Cavitating Flows
11.15	Romuald Skoda	3D-Simulation der Strömung binärer Alkan-Gemische und Bewertung der kavitationsinduzierten lokalen Segregation
11.30	Tobias Gianfelice	3D-Strömungssimulation zur Untersuchung des Einflusses von Luftausgasung auf die Strömungsaggressivität im Spalt einer Sonotrode
11.45	Robert Mettin	Stirring effects on multibubble sonoluminescence
12.00	Rafael Manso Sainz	On acoustic scattering of bubbles and wave localization

12.30 pm Lunch Break

2.00-4.30 pm Hiking			
Nanobubbles and Nucleation	5.00	Yatha Sharma	Bulk Nanobubble Generation using Laser-heated Gold Nanoparticles
	5.15	Jaka Mur	The laser excitation mechanism for nanobubble generation
	5.30	Mazyar Dawoodien	Phase transition involved with nanoscale cavitation
	5.45	Grigorios Hatzissawidis	Influence of the surface roughness on nucleation and global cavitation dynamics
	6.15	Matej Kanduc	Water's tensile strength: The significance of oil nanodroplets
6.45 pm Dinner			
7.30 pm Evening Discussion Weinstube Kloster Drübeck			

03.11. Friday

7.00-8.00 am Breakfast			
Cavitation Erosion/Bubble Dynamics	9.00	Ebrahim Kadivar	Thermodynamic effects on nanobubble's collapse-induced erosion
	9.15	Morteza Abedini	Utilization of surfactants as a cavitation erosion control method. an initial experimental study
	9.30	Fabian Reuter	A cavitation bubble interacting with a solid surface - what are the mechanisms of cleaning and erosion?
	9.45	Dominik Mnich	Single cavitation bubble dynamics and erosion in a planar shear flow
	10.00	Hemant Sagar	Fluid-Structure Interaction between Single Cavitation Bubble & Elastic Metal Foil
	10.15	Hendrik Reese	Controlling cavitation bubble lifetimes on the nanosecond scale: Rayleigh wave induced cavitation
10.30 am Coffee Break			
Single Bubble Dynamics	11.00	Gohar Moloudi	Investigation of 3D and viscous effects on single cavitation bubble dynamics
	11.15	Christiane Lechner	Influence of bubble size, liquid properties and ambient pressure on jet formation of wall attached bubbles
	11.30	Yuzhe Fan	Laser based submicron/micron-sized bubble seeding for flow tracking
	11.45	Alexander Bußmann	Supersonic jetting from anti-phase cavitation bubble pair interaction
	12.00	Matti Tervo	Simulations of bubble surface oscillations and microstreaming
	12.15	Patricia Pfeiffer	Viscous Fingering on Cavitation Bubbles
12.30 pm Closing			
12.45 pm Lunch Break			