

12.11. Dienstag
13.11. Mittwoch

09:10

Begrüßung

General Aspects

09:20

Osterland, Sven

Kavitation in der Hydraulik

09:40

Mettin, Robert

On some aspects of cavitation in holes and tubes

10:00

Reuter, Fabian

Measurement of the thickness of the liquid film that separates a cavitation bubble from a solid during its collapse dynamics

10:20

Hopfes, Thomas

Experimental Investigation of Bubble Dynamics with a Shock Tube

10:40

Kaffee Pause

11:10

Tervo, Matti

Sonolumineszenz in einer Water-hammer tube

11:30

Bermudez Graterol

Thermal effects on bubble growth in discrete n-alkanes mixtures

11:50

Denner, Fabian

Predicting bubble collapse: numerical algorithms and thermodynamics closures

12:10

Rosselló, Juan Manuel

Self-organization of laser induced bubbles under the influence of strong acoustic pressure fields in phosphoric acid

13:00

Mittagspause

14:00-16:30

Wanderung

Sonochemistry

16:30

Dreyer, Thomas

Ultrasonic pretreatment of lignocellulosic feedstock as substrate for sugar based biotechnology in an industrial scale

16:50

Hegedús, Ferenc

Numerically investigated dual-frequency driven sonochemistry

17:10

Nöpel, Julius-A.

Stoffumsetzung mittels Strahlkavitation

17:30

Rüdiger, Frank

Untersuchungen zur Stoffumsetzung bei Strahlkavitation

17:50

Barcikowski, Stephan

Materials synthesis in a cavitation bubble

18:15

Abendessen

19:30

Abenddiskussion

14.11. Donnerstag

Cavitation and Erosion

09:00

Lechner, Christiane

Standard jets and fast jets from laser-generated bubbles close to a solid boundary

09:20

Koch, Max

Extremely fast jets and vortex dynamics of single laser bubbles

09:40

Peters, Andreas

Numerical Prediction of Cavitation Erosion Using a Multi-Scale Method

10:00

Schreiner, Felix

Experimentelle und numerische Untersuchung der Strömungsaggressivität von Sonotroden zur Analyse der Kavitationserosion

10:20

Kaffee Pause

11:00

Hatzissawidis, Grigorios

Metall wird bei hohen Deformationsgeschwindigkeiten zur kompressiblen Flüssigkeit

11:20

Paula, Thomas

Sharp-interface modeling of laser-induced rapid cavity

11:40

Hoppe, Nils

ALPACA – a Versatile Multiresolution Compressible Flow Framework for high-resolution Simulations

12:00

Taubert, Paul

Eindimensionale Modellierung von Kavitationswolken in kompressibler Strömung

12:30

Mittagessen

Epilog

13:30

Dular, Matevž

Issue of salicylic acid dosimetry for quantifying radical production in cavitation

13:50

Eisener, Julian

Akustische Strömung bei Frequenzen nahe 1 GHz

14:10

Ohl, Claus-Dieter

Cavitation from transverse waves

14:30

Abschluss