Sunday, 12/6

18.00 - ?  Welcome, Beer and Barbecue

Monday, 13/6

9.15 - 9.30  Opening and Introduction

9.30 - 10.30  Evaporation and Drying, Chair: D. Schwabe

9.30  Frédéric Doumenc: Drying of colloidal dispersion in a blade coating configuration: from dilute dispersion to porous medium

9.45  Yanlin Song: Printable electronics and photonics based on nanoparticles

10.00  Yanan Li: Rate-dependent interface capture beyond the Coffee-Ring Effect

10.15  Qiusheng Liu: Preliminary results of space experimental investigation of sessile droplet evaporation process onboard Chinese satellite SJ10

10.30 - 11.00  Coffee break

11.00 - 12.15  Liquid Bridges and Capillary Waves, Chair: H. Kuhlmann

11.00  Valentina Shevtsova: Instability of thermocapillary-buoyancy convection in weakly evaporating liquid

11.15  Ranga Narayanan: Some unusual ideas on the stability of a pendant drop and a liquid bridge

11.30  Fabian Denner: Dispersion and viscous attenuation of capillary waves with finite amplitude

11.45  Taishi Yano: Effect of interfacial heating/cooling on the hydrothermal wave of thermocapillary liquid bridges of high Prandtl number fluids

12.00  Li Shen: The Marangoni effect on small-amplitude surface capillary waves in viscous fluids

12.15 - 14.00  Lunch
14.00 - 15.30 Droplets – Formation, Motion and Spreading, Chair: S. Kumar

14.00 Eugene Benilov: A thin drop sliding down an inclined plate
14.15 Olga Lavrenteva: Deformation of viscoplastic drops in non-isothermal Newtonian fluid
14.30 Len Pismen: Forced sliding of volatile drops: formation of a microrivulet
14.45 Jie Chen: Numerical simulation of solute-induced Marangoni effect of two coalescing drops

15.00 Nobuo Kazuno: DNS study of a small droplet driven by the thermal Marangoni effect
15.15 Masahiro Muraoka: Effect of Reynolds number on coalescence of droplets with particle in creeping flow through a tube

15.30 - 16.00 Coffee break

16.00 - 17.00 Thin Film Experiments, Chair: K. Eckert

16.00 Anton A. Darhuber: Marangoni flows induced by atmospheric-pressure plasma jets
16.15 H.M.J.M. Wedershooven: Infrared laser induced thermocapillary deformation and destabilization of thin liquid films
16.30 Wenceslao González-Viñas: Dynamics of water condensation over arrays of hydrophilic patches, and in the presence of humidity sinks
16.45 Bihi Ilyesse: Formation of interfacial patterns due to micro-particles presence

17.00 - 18.00 Particle Accumulation and Coating Films, Chair: V. Starov

17.00 Denis Melnikov: Variety of particle accumulation structures in thermocapillary flows
17.15 Francesco Romanò: On the role of the heat transfer in modelling axisymmetric particle accumulation in thermocapillary liquid bridges
17.30 Serge D’Alessio: Thin flow over a sphere
17.45 Rong Liu: Effect of thermocapillary on the stability of an exterior coating fibre flow

18.00 - 18.15 Qiusheng Liu: Presentation of IMA9
18.15 - 19.00 Poster Session I
19.00 - 20.30 Dinner
Tuesday, 14/6

9.00 - 10.30  **Numerical Simulations, Chair: T. Boeck**

9.00  *Marc Medale*: Flow pattern dependence on aspect ratio for double free-surface film subjected to thermo-capillary force

9.15  *Walter Tewes*: Thin film and kinetic Monte Carlo modeling of Rayleigh-Plateau instabilities of liquid ridges

9.30  *Xue Chen*: Numerical simulations of sessile droplet evaporating on heated substrate

9.45  *Motochika Inoue*: Direct numerical simulation of dynamic behavior of liquid-gas interface after interaction with particle

10.00  *Serpil Kocabiyik*: Interaction of laminar near-wake with a free surface

10.15  *S. Canberk Ozan*: A simple 1D shear-thinning model: a challenge for reliability of numerical solution or fake instabilities

10.30 - 11.00  **Coffee break**

11.00 - 12.15  **Two Layers and More, Chair: R. Narayanan**

11.00  *Olga Goncharova*: Modeling of the two-layer fluid flows with evaporation at interface on the basis of the exact solutions

11.15  *Jason R. Picardo*: Instability and breakup of interacting fluid interfaces

11.30  *Thomas Köllner*: Two-layer solutal Rayleigh-Marangoni convection in the eruptive regime: a parametric study of layer heights and initial concentrations

11.45  *Han-Ming Li*: Influence of rotation on thermocapillary convection in a differentially heated annular two-layer system

12.00  *Dipin S. Pillai*: Stability of three-layered core-annular flow

12.15 - 14.00  **Lunch**
14.00 - 15.55  **In honor of the 70th birthday of Victor Starov**  
**Surfactants and Foams, Chair: A. Oron**

14.10  *Victor Starov*: Free drainage of non-Newtonian foams

14.25  *Justin J.A. Conn*: On the dynamical behaviour of anti-surfactants

14.40  *Alexander B. Mikishev*: Oscillatory Marangoni instability and capillary-gravity waves in a heated liquid layer covered by insoluble surfactant

14.55  *Olga Varlamova*: From laser-induced self-organized structures to wettability and controlled liquid pattern formation

15.10  *Aleksey Mizev*: The effect of insoluble surfactant on thermocapillary flow in Hele-Shaw cell

15.25  *V. Iu. Gordeeva*: Numerical simulation of an evaporating thin film of polar liquid in presence of a surfactant

15.40  *Satish Kumar*: Dynamic wetting failure in surfactant solutions

16.00 - 16.30  **Coffee break**

16.30 - 18.00  **Vibrating Systems I, Chair: V. Shevtsova**

16.30  *Kevin Ward*: Theoretical and experimental study of Faraday instability in electrostatically forced systems

16.45  *Elena Novbari*: Parametric excitation of the axisymmetric flow down a vertical cylinder

17.00  *Yury Gaponenko*: Interfacial instability in miscible liquids induced by vibrations

17.15  *Irina Fayzrakhmanova*: Linear stability analysis of the vibration influence on Marangoni waves in two-layer film

17.30  *Ofer Manor*: Pattern deposition off an evaporating solution under the influence of a MHz surface acoustic wave (SAW)

17.45  *Matvey Morozov*: Modified Landau-Levich model for dragging thin liquid films by means of MHz surface acoustic waves (SAW)

18.00 - 19.00  **Poster Session II**

19.00 - 20.30  **Dinner**
Wednesday, 15/6

9.00 - 10.15  Chemical Reactions and Electro-Hydrodynamics, Chair: S. Amiroudine

  9.00  Achim Bender: Thin films with time-dependent chemical reactions
  9.15  Reda Tiani: Influence of Marangoni-driven flows on $A + B \rightarrow C$ reaction-diffusion fronts
  9.30  Laurence Rongy: Chemically-driven convection around autocatalytic fronts in parabolic flights
  9.45  A. Kerem Uguz: Effect of electric field on three-layer thermocapillary instability
  10.00  Pınar Eribol: Nonlinear evolution of the interface between immiscible fluids in a microchannel subject to an electric field

10.30 - 19.30  Excursion

  10:30  Departure from the conference site. Walk about 15 minutes to Bad Honnef ferry
  11:00 - 15:30  Boat cruise along the Rhine River from Bad Honnef to Koblenz
  15:30 - 18:30  Guided tour through Koblenz. Cable car trip to Ehrenbreitstein Fortress
  19:00  Bus transfer back to PBH

20.30 - ?  Banquet at PHB
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<td>9.00</td>
<td>Thin Film Instabilities and Dynamics, Chair: I. Borcia</td>
<td>William Batson</td>
<td>Convective formation of traveling waves on thin liquid films</td>
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<td>9.15</td>
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<td>Fei Duan</td>
<td>Nonlinear dynamics and interfacial stabilities of Rayleigh-Taylor unstable condensing liquid layers: the effects convection and diffusion of the vapor</td>
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<td>Valeri Frumkin</td>
<td>Ratchet flow on a substrate with an asymmetric topography sustained by the thermocapillary effect</td>
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<td>Alejandro G. González</td>
<td>Stochastic spatially correlated noise effects on the stability of thin films</td>
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<td>Markus Wilczek</td>
<td>Sliding drops - dynamics of large ensembles</td>
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<td>10.45</td>
<td>Gravity, Capillary and Marangoni effects I, Chair: Q. Liu</td>
<td>Vladislav V. Pukhnachev</td>
<td>Thermocapillary instability of a liquid layer on interior surface of a rotating cylinder</td>
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<td>11.00</td>
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<td>Bing Yuan</td>
<td>Numerical study on heat/mass transfer from a neutrally buoyant sphere in simple shear flow with natural convection due to centrifugal force</td>
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<td>Kerstin Eckert</td>
<td>Relaxation oscillations of solutal Marangoni convection</td>
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<td>Lou Kondic</td>
<td>Instability of nanometric fluid films on a thermally conductive substrate</td>
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<td>Nobuyuki Imaishi</td>
<td>Thermocapillary flow instabilities in pools of medium Pr fluids – effect of curvature on the critical condition –</td>
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<td>12.15</td>
<td>Lunch</td>
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14.00 - 15.30 **Gravity, Capillary and Marangoni effects II, Chair: A. Nepomnyashchy**

14.00 *Saeed Masoudi*: Axisymmetric buoyant-thermocapillary convection in sessile droplets

14.15 *Sicheng Zhao*: Instability of a liquid ring in binormal direction

14.30 *Santiago Madruga*: Marangoni influence on the melting dynamics of Phase Change Materials

14.45 *Hans Riegler*: Universal power law behavior for the Marangoni contraction of evaporating sessile droplets of binary mixtures

15.00 *Olga Fedorenko*: Diffusion and convective instability in multicomponent gas mixtures at different pressures

15.15 *Natalia Ivanova*: Droplet growth caused by laser-induced solutocapillary flows in films of binary liquid mixtures

15.30 - 16.00 **Coffee break**

16.00 - 17.30 **Vibrating Systems II, Chair: M. Bestehorn**

16.00 *Alexander Oron*: Nonlinear dynamics of thin liquid films on a corrugated substrate subjected to high-frequency forcing

16.15 *Sakir Amiroudine*: Faraday instability in binary fluid systems

16.30 *Denis S. Goldobin*: Interfacial waves in inviscid two-layer liquid system subject to longitudinal vibrations

16.45 *T.P. Lyubimova*: Vertical vibration effect on the Rayleigh-Benard-Marangoni instability in a two-layer system of fluids with deformable interface

17.00 *Rodica Borcia*: Dancing drops over vibrating substrates

17.15 *Sebastian Richter*: Surface instabilities in vibrating thin fluid films

17.30 **Closing**

18.00 - 19.30 **Dinner**