

# Programme

## Day 1, Wednesday, May 22:

09:00 Get together and registration

10:00 Conference opening/Welcome & Introduction  
*Dietmar Lerche, Scientific Conference Chair, Germany*

### Session I

10:30 Keynote Lecture „Progress in particle characterization by sedimentation analysis“, *Wolfgang Peukert, Institute of Mechanical Process Engineering of the Friedrich-Alexander-Universität Erlangen-Nürnberg*

11:30 Simultaneous determination of protein charge and mass via analytical ultra-centrifugation, *Albert P. Philipse, Van 't Hoff Lab for Physical and Colloid Chem., Debye Inst. for Nano Materials Science, Netherlands*

12:00 Experimental Approach for Determination of Hansen Dispersibility Parameter (HDP) of Nano/Micro particles by means of Sedimentation Techniques, *Shin-ichi Takeda, Takeda Colloid Techno-Consulting Co. Ltd., Japan*

12:30 Incorporation of centrifugal and particle-particle DLVO forces into simulations of dispersion sedimentation and validation with LUMiSizer data, *Timothy N. Hunter, Chemical & Nuclear Engineering School, University of Leeds, UK*

13:00 Lunch Break 🍴

### Session II

14:00 Rapid Stability Prediction Methods for Consumer Products, *Stanislav Jaracz, Colgate Palmolive, USA*

14:30 Accelerated galenic stability measurement of cosmetic formulations, *Dr. Richard Lehmann Bio-Chemisches Laboratorium Dr. Lehmann GmbH & Co. KG, Lautrach, Germany*

15:00 Topic from cosmetics area, *Andrea Kargerová, Brno University of Technology, Czech Republic*

15:30 Visit of Exhibition & Coffee break ☕

16:00 Stability prediction of wax-containing inkjet ink by LUMiSizer, *Yubai Bi, HP Inc., USA*

16:30 Use of LUMiFuge® during product and process development of silicone formulations, *Holger Rautschek, Wacker Chemie AG, Germany*

17:00 Pigment application of LUMiReader X-Ray: Separation analysis of highly filled TiO<sub>2</sub> dispersions, *Sven Böhm, KRONOS INTERNATIONAL, Inc., Germany*

17:30 End of conference programme (Dresscode informal)

18:15 Departure from hotel

18:30 Start of guided tour

20:00 End of guided tour and dinner in restaurant PATAGONA (Dresscode: informal)



# Programme

## Day 2, Thursday, May 23:



### Session III: LUM Young Scientist Award 2019

08:30 Introduction by Dietmar Lerche, President of Jury

09:00 YSA I: Dual efficiency of accelerated centrifugation using LUMiSizer in evaluating the stability of pea protein nanoparticles and the resultant nanoparticle-stabilized Pickering emulsions, *Chi Diem Doan, University of Saskatchewan, Canada*

09:30 YSA II: Influence of excess emulsifier on the gelation behavior and stability of oil-in-water nanoemulsions, *Kunal Kadiya, University of Saskatchewan, Canada*

10:00 YSA III: From the Life of Proving Cloths, *Richard-Sebastian Moeller, Karlsruhe Institute of Technology, Karlsruhe, Germany*

10:30 Award Presentation

10:45 Coffee break ☕

### Session IV

11:15 Centrifugal Force Meets Materials Testing – Analytical Centrifuge as Multipurpose Tool for Tensile and Compressive Testing, *Uwe Beck, Bundesanstalt für Materialforschung und –prüfung (BAM), Germany*

11:45 Microcontact Printing of Patchy Silica Particles using the LUMiFrac, *Marc Zimmermann, Fraunhofer-Institut für Angewandte Polymerforschung, Germany*

12:15 Lunch break 🍴

### Session V

13:30 Preparation and Characterisation of Pickering Nanoemulsions, *Steven Armes, Department of Chemistry, University of Sheffield, UK*

14:00 Determination of hydrodynamic non-ideality parameters from experimental sedimentation velocity experiments using analytical centrifugation, *Maximilian Uttinger Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*

14:30 Centrifugal recovery of solvent-diluted bitumen from oil sands, *Merouane Khammar, CanmetENERGY, Canada*

15:00 In-field stability of ferrofluids for the magnetic density separation of plastic waste, *Ben Erné, Van 't Hoff Lab for Physical and Colloid Chem., Debye Inst. for Nano Materials Science, Netherlands*

15:30 Visit of Exhibition & Coffee break ☕

### Session VI

16:00 Recent advancement in food colloids research using LUMiSizer®, *Supratim Ghosh, University of Saskatchewan, Canada*

16:30 Practical Aspects of LUMiFuge Application in Food Industry, *Anna Kuzmicheva, PepsiCo Company, Moscow, Russia*

17:00 Determination of fat, protein and dry matter in milk by means of a scattering technique, *Klaus-Henrik Mittenzwey, Optosphere Spectroscopy GbR*

17:30 Conference Closure