



Programme

International Workshop Dispersion Analysis & Materials Testing 2014

Berlin, Germany,
January 23 - 24, 2014

Find out more at
www.dispersion-letters.com

Lectures given by experts from



Scientific event in the year of the
20th anniversary of
LUM GmbH Berlin.

STABILITY-SHELF LIFE-PARTICLE SIZE-ADHESIVE STRENGTH

Scientific Workshop Programme

Day 1, January 23:

09:00 Get together and registration

10:00 Conference opening

10:15 Keynote

An investigation on adhesion forces of particles on surfaces in centrifugal and magnetic fields

Prof. Dr.-Ing. Hermann Nirschl, Karlsruhe Institute of Technology, Germany

Session 1

11:00 Comparative study on the adhesive strength of optical and ophthalmic coatings by means of centrifuge technology

S. Hielscher, U. Beck, T. Lange, M. Weise, BAM Federal Institute for Materials Research and Testing Division, Germany

11:30 Surface characterization of particles by Hansen Solubility Parameter (HSP) using a LUMiReader

Shin-ichi Takeda, Takeda Colloid Techno-Consulting, Co., Ltd., Japan

12:00 Coffee break ☕

Session 2

12:30 Characterisation of colloidal aggregates with optical centrifugation analysis and other particle sizing techniques

Frank Babick, Technische Universität Dresden, Germany

13:00 Complex size characterization of alumina, silica, titania and zinc oxide nanoparticle reference materials

A.A. Lizunova^{1,2}, A.A. Loshkarev^{1,2}, D.O. Skidin², M.N. Urazov², D. Lerche³, I.A. Volkov, V.V. Ivanov^{1,2}

¹LLC "MC RUSNANO", Russia, ²Moscow Institute of Physics and Technology

³LUM GmbH, Germany

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13:30 Assessment of the degree of dispersion of sterically-stabilised carbon black dispersions in n-alkanes using a LUMiSizer

David J. Gowney and Steven P. Armes, Department of Chemistry,
University of Sheffield, UK

14:00 Lunch break 🍴

Session 3

15:00 Using the Lumifuge in the development of an Emulsion Foam Drug Product

Yogev Dahan, Tatiana Kamenetsky
Perrigo Israel Pharmaceuticals Inc., Israel

15:30 Stability of Palm Olein in Mayonnaise

Wan Rosnani Awg Isa, Miskandar Mat Sahri and Abdul Rahman Ibrahim
Malaysian Palm Oil Board (MPOB), Malaysia

16:00 Yield determination of double W/O/W emulsions by analytical photocentrifugation

Mathieu Balcaen, Lien Vermeir & Paul Van der Meeren, Ghent University, Gent (Belgium)

16:30 Coffee break ☕

17:00 Coating suspensions for fluorescent lamps: About the relevance of their sedimentation characteristics in the mass production

Stephan Appel, Osram GmbH, Augsburg, Germany

17:30 Ceramic nanoparticle suspensions for wear-resistant coatings

A. Meyer¹, A. Potthoff¹, M. Weiser², M. Schneider¹

¹ Fraunhofer IKTS, Dresden, Germany

² TU Dresden, IfWW, Dresden, Germany

18:00 Hand out of event information

And in the evening of 23 January...

A cultural journey to the 800 year-old historical town centre of Berlin-Köpenick

Köpenick (Slavonic Kopanica) is a historic town and locality that is situated at the confluence of the rivers Dahme and Spree in the south-east of the German capital city of Berlin. It was formerly known as Copanic and then Cöpenick, only officially adopting the current spelling in 1931. It is known for the famous imposter Hauptmann von Köpenick. Prior to its incorporation into Berlin in 1920, Köpenick was an independent town. It then became a borough of Berlin, with an area of 128 km², making it Berlin's largest borough. In Berlin's 2001 administrative reform, the borough of Köpenick was merged with that of Treptow to create the current borough of Treptow-Köpenick*, the borough LUM headquarters is located in.*

The cellar of the historic Köpenick Town Hall - a famous restaurant, jazz club and theatre - provides the ideal location for a relaxing and enjoyable evening after a long conference day.

Excellent local cuisine is provided.

Ratskeller Köpenick

Alt-Köpenick 21 · 12555 Berlin

Transportation to and from the location is organized by the conference committee.

Old Berlin hops into the roaring 1920ies - a popular dance and music show takes you back to Berlin at the turn of the century 1900.

Featuring the characters of Schiebermaxe and Karlineken, traditionals from Berlin alternate with historic dances from Brandenburg. Everybody joins the rhythm of a popular polka. During the roaring 1920ies afro-american rhythms fired the audience, every

month a new exotic step became popular in Berlin's ballrooms. You meet Donna Clara in a honky-tonk and dance with her in a ballroom, stylish as during the Golden 1920ies. The Black Bottom terminated the exciting period of Charleston and Tango in 1927.



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Day 2, January 24:

Session 4

08:30 Young Scientist Award 2014



10:30 Coffee break 

Session 5

11:00 LUMiSizer as a Bioequivalence Tool in Nasal Spray Product Development in the Generic Industry

Keren Fogel, Perrigo Israel Pharmaceuticals Ltd., Israel

11:30 Formulation development of wet-media milled colloidal drug suspensions for new chemical entities

Michael Juhnke, Novartis Pharma AG, Switzerland

12:00 Testing of lignite hydrocolloids by analytical centrifugation

Miloslav Pekař, Brno University of Technology, Czech Republic

12:30 Lunch break 

13:30 Stability analyses of aqueous dispersions by analytical centrifugation: applications in cosmetic and aerospace industry

Isabelle Giraud, Clara Chaouat*, Sophie Franceschi*, Emile Perez*, Eric Dantaras**, Colette Lacabanne**

* Laboratoire IMRCP, France

** Laboratoire de Physique des Polymères CIRIMAT – Institut Carnot, France

14:00 Dispersing Behavior and Characterization of multi-walled and functionalized Carbon Nanotube-Suspensions

A. Dresel, U. Teipel, Technical University Nuernberg-Georg-Simon-Ohm, Germany

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Session 6

14:30 Biomechanical Properties of Bone Samples: Influence of Thermal and Chemical Disinfection/Sterilization Procedures

Hans Bäuml¹, Laura-Marie Hamberger¹, Paul Zaslansky², Axel Pruß¹, Radostina Georgieva¹,

¹Charité-Universitätsmedizin, Berlin,

²Berlin-Brandenburg Center for Regenerative Therapies (BCRT) & Julius Wolff Institut für Biomechanik und Muskuloskeletale Regeneration, Germany

15:00 Centrifugal characterisation of suspensions in dewatering: permeability, compressibility and elastic rebound

Shane Usher, The University of Melbourne, Australia

15:30 Coffee break ☕

15:45 Probing colloidal interactions through sedimentation and compressive yield stress data

Simon Biggs, The University of Leeds, UK

16:15 The additional capabilities of Lumisizer: the measurement of filterability of juices, extracts, sludges and suspensions

Nadia Boussetta, Sylène Brianceau, Morgane Citeau, Nabil Grimi, Jessy Mattar, Nikolai Lebovka, Maksym Loginov* and Eugene Vorobiev

University of Technology, France

16:45 Conference closure

17:00 End of conference

Registration

Deadline for registration is **January, 10, 2014**. Registration by email to support@lum-gmbh.de. The invoice will be sent after registration. Please also turn to the payment page for your preferred payment method. The final confirmation will be sent to you immediately after payment.

Participant Address

Titel, First Name, Surname

Email

Phone

Company/Institution

Department

Street or PO Box

Place and Postcode

Country

Invoice Address*

Titel, First Name, Surname

Email

Phone

Company/Institution

Department

Street or PO Box

Place and Postcode

Country

DISCOUNTS:

- I am using a LUM instrument with serial number _____ (e. g. 6512-85) and apply for a discount of 125 €.
- I have already participated twice in the workshops 2011, 2012 and 2013 and apply for a discount of 200 €.

Please inform me about additional training courses between 22 - 24 January 2014.
Please check:

- Particle characterization
- Dispersion stability
- Material testing
- SEView software

Prices

January 23 - 24

Two days including evening event:

Registration fee

280.00€ net per person*, VAT not included

Cancellation fee after 15.12.2013 100%. A substitute is welcome.

* See registration page for special discounts.

Payment Method

- Bank transfer to LUM account
- VISA Credit Card
- Mastercard Credit Card

Number of Credit Card

Expires End / Valid Thru

Name on Credit Card

Card Verification Value / Card Value Code

Date and Signature



Conference location

The conference is located at
Forum Adlershof
Rudower Chaussee 24,
12489 Berlin



Airport Berlin-Schoenefeld SXF

12 min by taxi

10 minutes by city train (**S 9** direction Pankow or **S 45** direction Bundesplatz, leave the train at station **Adlershof**)

20 min by bus (**bus 164** direction Kaulsdorf, leave at station **Adlershof**)



Airport Berlin-Tegel TXL

40 min by taxi

52 minutes by bus / city train (**bus TXL** to **Beusselstrasse**, then change to **S 41** to Ostkreuz, then change to **S 8** direction Grünau, leave the train at station **Adlershof**)



Main railway stations Deutsche Bahn (DB)

BVG

Berlin-Suedkreuz 20 min by city train (S-Bahn 46 direction Königs Wusterhausen, leave the train at station Adlershof)

Berlin-Hauptbahnhof

40 min by city train (S-Bahn S 7 direction Ahrensfelde to Ostkreuz, then change to S 8 direction Grünau or S 9 direction Flughafen Berlin-Schoenefeld, leave the train at station Adlershof)