



*In the year of the 25th anniversary of LUM*

# International Conference Dispersion Analysis & Materials Testing 2019

**Berlin, Germany,  
May 22-23 2019**

Find out more at [www.dispersion-letters.com](http://www.dispersion-letters.com)

Lectures from (selection updated regularly)

- **Germany** (Institute of Mechanical Process Engineering of the Friedrich-Alexander-Universität Erlangen-Nürnberg, Bio-Chemisches Laboratorium Dr. Lehmann GmbH & Co. KG)
- **Japan** (Takeda Colloid Techno-Consulting Co. Ltd.)
- **UK** (School of Chemical & Process Engineering, University of Leeds)
- **Netherlands** (Van 't Hoff lab for Physical and Colloid Chem., Debye Inst. for Nanomater)



# First call for papers

# Scientific Conference

From 22-23 May 2019, LUM GmbH hosts the next International Conference Dispersion Analysis & Materials Testing in Berlin, Germany.

The conference organizer invites all world-wide LUM instrument users to present their strategies and results in the scientific and industrial use of LUMiSizer®, LUMiFuge®, LUMiReader® PSA, LUMiReader® X-Ray and LUMiFrac® in the frame of an oral presentation.

Conference topics include:

## Particle & Surface Characterization

- Particle size distribution of nano- and microparticles
- Hansen Dispersibility Parameter / Hansen Solubility Parameter
- Particle density distribution
- Particle surface characterization

## Real-time & Accelerated Stability

- Direct accelerated stability testing of dispersions
- Real-time separation in emulsions and suspensions
- Comparative and predictive shelf life for dispersions (ISO/TR 13097)
- Stability testing of cosmetic products (ISO/TR 18811)

## Materials Testing

- Tensile testing
- Shear testing
- Characterization of coatings
- Characterization of composite materials
- Mechanical strength

## Processing

- Separation of particles in industrial processes
- Characterization of dispersibility and filterability
- Shear and compressive yield stress
- Up- and downstream processing

Further topics related to LUM instrument use very much are welcome. Kindly send your abstract for an oral presentation in English as MS word file by email to [event@lum-gmbh.de](mailto:event@lum-gmbh.de) (download stylesheet: [goo.gl/BJY85Q](http://goo.gl/BJY85Q))

**Deadline for abstract submission is 15 December 2018. Notification will be given by 31 January 2019. All abstracts will be published on [www.dispersion-letters.com](http://www.dispersion-letters.com).**

*Presenting authors are granted the workshop participation free of charge.*



Justus-von-Liebig-Str. 3, 12489 Berlin, Germany Phone +49 30 67 80 60 30  
Fax +49 30 67 80 60 58 [www.lum-gmbh.com](http://www.lum-gmbh.com) / [event@lum-gmbh.de](mailto:event@lum-gmbh.de)



Call for LUM

# Young Scientist Award 2019

With calling for papers for Young Scientist Award 2019 LUM again broadens its support and commitment in promoting young researchers from universities and academic institutions all across the globe. The submissions of relevant scientific results to the organizing committee of the workshop are hereby strongly encouraged.

To qualify, any applicant must meet the following conditions:

- Experimental results that advance the understanding of the general scientific community in the analysis of dispersions/ particles respectively in materials testing were obtained by using LUM instruments (no longer than two years after graduation).
- The scientific significance of the results is met by submitting a peer reviewed publication, a Bachelor, Master or PhD thesis as copy, or, in case of unpublished results, a detailed description of work.
- Applicants provide a two-page abstract and a detailed curriculum vitae, along with a letter of recommendation by the supervisor.

Please download the stylesheet for your abstract at [goo.gl/BJY85Q](http://goo.gl/BJY85Q). Kindly submit all documents by email to [event@lum-gmbh.de](mailto:event@lum-gmbh.de), keyword 'LUMYSA 2019'.

**The deadline for LUM Young Scientist Award 2019 applications expires on 15 December 2018.**

A jury will nominate three candidates to present their results during the International Conference & Workshop, including a free registration. The candidates will be announced by **31 January 2019**. Their abstracts will be uploaded to [www.Dispersion-Letters.com](http://www.Dispersion-Letters.com). The jury will present the laureate in Berlin. She or he will be given the opportunity to submit an article to Dispersion Letters.

The LUM Young Scientist Award 2019 also includes a two night accommodation in Berlin and a prize money of 1,000 Euros.



# Preliminary schedule

The keynote lecture will be given by the renowned head of the Institute of Mechanical Process Engineering of the Friedrich-Alexander-Universität Erlangen-Nürnberg, Prof. Dr. Wolfgang Peukert.

## Confirmed lectures (2 June 2018)

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., Osaka, Japan*

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

Incorporation of centrifugal and particle-particle DLVO forces into simulations of dispersion sedimentation and validation with LUMiSizer data, *Dr. Timothy Hunter Lecturer in Chemical & Nuclear Engineering School of Chemical & Process Engineering University of Leeds, UK*

In-field stability of ferrofluids for the magnetic density separation of plastic waste, *Dr. Ben Ern , Van 't Hoff Lab for Physical and Colloid Chem., Debye Inst. for Nanomater, Utrecht, Netherlands*

## Wednesday 22 May 2019

09:00 Get together & Registration

10:00 Conference Opening

Keynote lecture

Conference sessions (details coming soon!)

Social event in the evening

## Thursday 23 May 2019

Conference sessions (details coming soon!)

Conference location:

ABACUS Tierpark Hotel

opposite Berlin's famous Tierpark Friedrichsfelde.