

**DWI**

Leibniz-Institut für  
**Interaktive Materialien**

# HairS'23

23<sup>rd</sup> International Hair-Science Symposium  
DWI – Leibniz-Institut für **Interaktive Materialien**

Aachen, Germany | September 06-08, 2023

# Conference Program

Wednesday

06 September

**VENUE:** DWI – Leibniz-Institut für Interaktive Materialien,  
Forckenbeckstr. 50, 52074 Aachen

15:00 **ARRIVAL AND REGISTRATION**

15:30 **OPENING AND INTRODUCTION**

Andreas Herrmann, DWI – Leibniz Institute, Germany  
Carl-Uwe Schmidt, Wella Germany GmbH, Germany

16:00 **DWI – EXPERTISE AND INFRASTRUCTURE MEETS HAIR RESEARCH**

16:00 *Silica meets hair care*

Xiao Min Zhu, DWI – Leibniz Institute, Germany

16:30 *FLIM applied to the study of responsive polymers and hair fibers*

Silvia Centeno Benigno, DWI – Leibniz Institute, Germany

17:00 *The fiT infrastructure*

Sven Stegemann; DWI – Leibniz Institute, Germany

17:30 **DWI TOUR**

*Station 1 (Anchor peptides - Alexander Boes)*

*Station 2 ( fiT - Sven Stegemann)*

*Station 3 (SEM - Tamas Haraszti)*

*Station 4 (FLIM - Silvia Centeno Benigno)*

*Station 5 (DWI-Posters)*

19:30 **GET-TOGETHER DINNER**

# Conference Program

Thursday

07 September 2023

**VENUE:** Parkhotel Quellenhof, Monheimsallee 52, 52062 Aachen

## Focus: Structure & Texture Hair

- 09:00 **Plenary Lecture:** *New structural insights into cuticle and cortex of human hair*  
Bernd Nöcker, Kao Europe Research Laboratories, Germany
- 09:45 *Unique journeys for textured hair*  
Sabrina Marchioreto, Dow Silicones, Belgium
- 10:05 *Repairing hair: The performance of organic acids in consumer centric routines*  
Daijiayi Zhang, L'Oréal Research and Innovation, France
- 10:25 *Coexisting in the changing climate*  
Cristina Bonell, Lubrizol Advanced Materials, Spain
- 10:45 **COFFEE BREAK**
- 11:15 **Plenary Lecture:** *Chemical bonds and hair behavior*  
Crisan Popescu, consultant for hair care industry and wool industry, Germany

## Focus: Sustainability and Innovative Materials

- 12:00 *LCA-based sustainability product assessments*  
Joachim Kremer, Henkel AG & Co. KGaA, Germany
- 12:20 *Low environmental footprint algae oil for hair and scalp benefits*  
Melanie Marcant, Lubrizol Advanced Materials., Belgium
- 12:40 *Novel sustainable & natural derived approaches for lamellar and silicone free hair conditioners systems containing scleroglucan*  
Emmanuel Everaert, Cargill Beauty, France
- 13:00 **LUNCH BREAK**
- 14:00 *RHEANCE® One - The gentle and sustainable alternative to conventional surfactants*  
Peter Schwab, Evonik Operations GmbH, Germany
- 14:20 *Design of a new deposition aid for sustainable shampoo: from cationic cellulose to cationic dextran*  
Cindy Delvallé, Dow Silicones, Belgium
- 14:40 **POSTER SESSION**
- 15:45 **SOCIAL EVENT**
- 19:30 **CONFERENCE DINNER**  
Erholungs-Gesellschaft Aachen- Reihstraße 13, 52062 Aachen

# Conference Program

Friday

08 September 2023

VENUE: Parkhotel Quellenhof, Monheimsallee 52, 52062 Aachen

## Focus: Genetics and Analytics

- 09:00      **Plenary Lecture:** *From invisible follicle biology to visible fiber quality*  
Nawel Baghdadli, L'Oréal Research and Innovation, France
- 09:45      *Multi-disciplinary approach to quantify oxidative hair damage: proteomics, spectroscopy, tensile strength and DSC measurements*  
Jing Hodes, Henkel AG & Co. KGaA, Germany
- 10:05      *Changes in tensile properties of human hair with pH: Investigating effects of carboxylic acids on the intermediate filaments and the matrix*  
Thomas Davies, Dia-Stron Ltd, United Kingdom
- 10:25      *Difference in performance of hair care products on different hair types*  
Ines Sellami, SGS Insitute Fresenius, Germany
- 10:45      **COFFEE BREAK**
- 11:15      **Plenary Lecture:** *Genetic causes for diverse hair phenotypes*  
Regina Betz, University of Bonn, Germany
- 12:00      *Hair damage characterisation using Dynamic Vapour Sorption Tg measurements*  
Volatiana Razafindramanana, Surface Measurement Systems, United Kingdom
- 12:20      *Animal hair classification using electron microscopy and AI*  
Tamas Haraszti, DWI Leibniz Institute, Germany
- 12:40      **AWARDS / CLOSING REMARKS**
- 13:00      **LUNCH AND END OF SYMPOSIUM**