

■ The Freiberg Collagen Symposium was first initiated in 1996. It was supposed to build a platform for knowledge transfer in the research field „Collagen - Extraction, Preparation and Application of collageneous raw materials“ and to enhance the networking of the institute’s scientists with partners and experts of the industry and other research institutions. Since then the symposium, taking place every 4 years, has evolved into an established, international meeting point for experts and professionals of different disciplines and industries.

The fields of application of collagen are versatile. Collagen is utilised recently more intensively for medical products and devices, as additive in cosmetic and pharmaceutical products, but also for tensides and fertilisers, as packaging and coating material and for food products.

Again, the 6th Freiberg Collagen Symposium deals with incidence, extraction and preparation of collageneous raw materials for industrial utilisation und processing to products. The papers will cover issues relevant to the collagen industry and focus on new findings with regard to collagen structure and the binding mechanism within influencing processing parameters and material properties.

■ VENUE

Alte Mensa Freiberg
Petersstr. 5, 09599 Freiberg, Germany

■ ORGANISER

Forschungsinstitut für Leder und Kunststoffbahnen (FILK)
gmbH, Meißner Ring 1-5, 09599 Freiberg, Germany

■ CONTACT

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■ PARTICIPATION FEES

Participation fee	410 €
Members of FILK Association	310 €
Members of Universities	190 €
Students	190 €

(Prices incl. proceedings, refreshments, social programme and common dinner)

■ REGISTRATION / CANCELLATION

Please, use the registration form of our website at www.filkfreiberg.de. Deadline is August 31, 2016. If registration is cancelled before August 31, 2016, we will refund the participation fee deducting a 50 € handling fee. For cancellations after this date, no refund will be made.

■ ACCOMMODATION

A limited number of rooms you can book under the keyword ‚Kollagensymposium‘ in the following hotels:

Hotel Alekto, Am Bahnhof 3, 09599 Freiberg
(+49 3731 794-0, info@alekto.de)

Hotel Altstadt, Donatsgasse 3, 09599 Freiberg
(+49 3731 207030, info@hotel-freiberg.de)

Hotel Freiberger Brauhaus, Körnerstr. 2, 09599 Freiberg
(+49 3731 35300, info@freiberger-brauhaus.de)

Hotel Mauck'sches Gut, Hornstr. 20, 09599 Freiberg
(+49 3731 33978, hotel@hotel-maucksches-gut.de)

Hotel Regenbogenhaus, Brückenstr. 5, 09599 Freiberg
(+49 3731 79850, hotel-Regenbogenhaus@t-online.de)

Hotel Silberhof, Silberhofstr. 1, 09599 Freiberg
(+49 3731 2688-0, rezeption@hotel-silberhof.com)

■ CONFERENCE LANGUAGES

German, English - simultaneous interpretation will be provided

PROGRAMME

6th Freiberg Collagen Symposium
September, 14 & 15, 2016, Freiberg

FILK Forschungsinstitut
Leder und Kunststoffbahnen

LECTURE PROGRAMME | WEDNESDAY, 14.09.2016

08.30 Doors open & registration

09.30 Opening, greetings

Prof. Dr. Michael Stoll, Director, FILK (DE)

Dr. Michael Meyer, Head of Department Leather / Collagen / Biopolymers, FILK (DE)

09.50 Extrusion-based additive manufacturing with collagen and its derivatives for biomedical applications
Michael Gelinsky, Centre for Translational Bone, Joint and Soft Tissue Research, Technische Universität Dresden (DE)

10.30 Laser structuring and biological testing of gelatin scaffolds for tissue engineering applications

Nicole Hauptmann, Institute for Bioprocessing and Analytical Measurement Techniques e.V. (DE)

10.55 Adaptation of collagen properties for 3D printing

Ina Prade, FILK (DE)

11.20 Coffee break

11.40 Preparation and characterisation of pre-vascularized collagen scaffolds

Matthias Wiele, FILK (DE)

12.05 Collagen-based supramolecular structures in tissue engineering and regenerative medicine – New tricks for the old protein

Dimitrios Zeugolis, Biosciences Research Building, National University of Ireland (IE)

12.30 Lunch break

13.30 Structure, mechanical properties and hydration effects in tendon collagen
Peter Fratzl, Max Planck Institute of Colloids and Interfaces (DE)

14.10 Collagen based materials - small angle x-ray scattering studies of structure related to strength

Richard Haverkamp, School of Engineering & Advanced Technology, Massey University (NZ)

14.35 Micro-structural analysis of leather based on 3D image data

Katja Schladitz, Fraunhofer Institute for Industrial Mathematics ITWM (DE)

15.00 Modifications of collagens during mummification - the case of mummy of Cangrande I della Scala, Lord of Verona, Italy (1291-1329 AD)

Ivan Mikšík, Institute of Physiology, The Czech Academy of Sciences (CZ)

15.25 Poster session with coffee

16.00 End of lecture programme

SOCIAL PROGRAMME | WEDNESDAY, 14.09.2016

~ 16.15 Start social programme (according your choice)

*Tour 1 - Guided city tour

*Tour 2 - Visit of the mine 'Reiche Zeche' and guided tour underground

*Tour 3 - Visit of the 'Historicum'

19.00 Common dinner at 'Freiberger Brauhaus'



LECTURE PROGRAMME | THURSDAY, 15.09.2016

09.00 Cattle: history, breeds and breeding for collagen
Johannes A. Lenstra, Utrecht University (NL)

09.40 Collagen hydrolysate from solid waste of leather industry as a film-forming material for Brassica napus seed coating
Justa Sirvaityte, Kaunas University of Technology (LT)

10.05 More efficient use of collagen derivatives from tannery and fish waste
Maksym Koliada, Kyiv National University of Technologies & Design (UA)

10.30 Coffee break

10.50 Structure, rheology and novel applications of self-assembled collagen matrices for cancer cell research
Ben Fabry, Universität Erlangen-Nürnberg (DE)

11.30 New protocol for the stabilization of collagen in the presence of dendrimers and EDC/NHS or DMTMM as cross-linking agents

Valentina Beghetto, Università Ca' Foscari Venezia (IT)

11.55 New developments to synthetic tissue adhesives
Jörg Bohrisch, Fraunhofer Institute for Applied Polymer Research IAP (DE)

12.20 Lunch break

13.20 Artificial extracellular matrices based on collagen and glycosaminoglycan derivatives – promising candidates for the design of functional biomaterials
Vera Hintze, Max Bergmann Center of Biomaterials, Technische Universität Dresden (DE)

14.00 Functional und structural insights into TIMP-3-glycosaminoglycan interactions - implications for the design of functional biomaterials for chronic wound healing
Sandra Rother, Max Bergmann Center of Biomaterials, Technische Universität Dresden (DE)

14.25 Coffee break

14.55 Scaffolene: Centrifugal spinning, a technology for fiber and nonwoven production
Dirk Grafahrend, Freudenberg New Technologies Se & Co KG (DE)

15.20 Shrinkage of collagen scaffolds using calcium chloride to alter mechanical properties
Luuk Versteegden, Radboud Institute for Molecular Life Sciences, Radboud University Medical Center (NL)

15.45 End of 6th Freiberg Collagen Symposium with coffee