

## LECTURE PROGRAMME | WEDNESDAY, 14.09.2016

08.30 Doors open & registration

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09.30 Opening, greetings

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

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

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**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)**

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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)

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10.55 Adaptation of collagen properties for 3D printing

Ina Prade, FILK (DE)

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11.20 Coffee break

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11.40 Preparation and characterisation of pre-vascularized collagen scaffolds

Matthias Wiele, FILK (DE)

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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)

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12.30 Lunch break

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

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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)

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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 Mikšik, Institute of Physiology, The Czech Academy of Sciences (CZ)

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15.25 Poster session with coffee

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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 BrauhoF'



## LECTURE PROGRAMME | THURSDAY, 15.09.2016

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

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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)

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10.05 More efficient use of collagen derivatives from tannery and fish waste

Maksym Koliada, Kyiv National University of Technologies & Design (UA)

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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)**

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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)

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11.55 New developments to synthetic tissue adhesives

Jörg Bohrisch, Fraunhofer Institute for Applied Polymer Research IAP (DE)

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12.20 Lunch break

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**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)**

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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)

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14.25 Coffee break

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14.55 Scaffolene: Centrifugal spinning, a technology for fiber and nonwoven production

Dirk Grafahrend, Freudenberg New Technologies Se & Co KG (DE)

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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)

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15.45 End of 6th Freiberg Collagen Symposium with coffee