

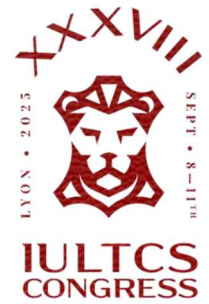
Tuesday, September 9, 2025

9:45 - 10:30

Heidemann Lecture

11:00 - 12:30

Session 1: From traceability to beamhouse.



1.1 Traceability of hides and skins through the supply chain. Resp. Dpt. Technologie Informatique Paul D'Arras & Vigier Cédric CTC

1.2 Hide and Seek: Enhancing Sustainability in Leather Production with Spectroscopic Technology. Research scientist Yang Liu & Yash Dixit, Siew Ling Ong, Sujay Prabakar, Marlon M. Reis New Zealand Leather and Shoe Research Association

1.3 Mesostructured Collagen from the Bovine Achilles Tendon as a Structural Unit of Collagen Films. Doctoral student Jiaqi Li & Ying Pei College of Materials Science and Engineering, Zhengzhou University, Zhengzhou 450001, China

1.4 Innovative Leather Manufacturing: Enhancing Hydrophobicity and Strength through Iron Pre-Tanning and Silane Treatment. Professor Bi She & Wenhao Chen, Yue Yu*, Ya-nan Wang Sichuan University

1.5 Beyond Traditional Beamhouse Processing: A One-step Enzymatic Approach Towards Greener and More Sustainable Leather. Associated Researcher Mingrui Zhang & Jie Liu, Fang Wang*, Keyong Tang Zhengzhou University

1.6 Multi-Enzymatic Beamhouse Operation: Influence of Cleaner Technology in Leather manufacture. Research Scholar Research Scholar Sudhagar & Dr GC Jayakumar Department of Leather Technology (Housed at CSIR-CLRI), Anna University, Chennai, Tamil Nadu.

1.7 Pilot Scale Study of Sulfide Free Enzymatic Unhairing for Ethiopian Raw Materials: Towards Sustainable and Circular Economy Pathway Researcher Mohammed Hussien Seid & Dr G C Jayakumar, Mr Mohammed H., Mr Prasanna, Mr Aakash Balla, Mr Dagnew N., Mr Mishamo W., Dr S Sundarapandian, Dr B Madhan, Dr P Saravanan

14:00 - 15:30

Session 2: Chrome tanning and chrome free tanning.

2.1 Understanding the Effect of Biocidal Agents on Leather Disintegration. Global Technical Manager Biocides Andreas Weckmann Technical Application

2.2 Zeolite tanning agent - sustainability considerations. Ivo Reetz & Francina Izquierdo, Anna Bacardit Pulcra Chemicals

2.3 Multifunctional wet-white leather tanning system based on vegetable tannins and dual-functionalized zirconium phosphate nanoplatelets: Optimization, characterization, and applications. Associate Prof. Dr. Jiabo Shi (College of Bioresources Chemical and Materials Engineering, Shaanxi University of Science & Technology, P. R. China)

2.4 Oxidative Depolymerization of Lignin Using H₂O₂-O₃ Synergistic System for Chrome-Free Eco-Leather Tanning. Professor Yue Yu & Ningqiang You, Ya-nan Wang, Bi Shi Sichuan University

2.5 "All-in-one" ecological chromium-free tanning system for reducing the carbon footprint of the leather production process. Professor Quechuan Wang & Shuang Liang, Xinhua Liu, Xiaoyu Guan, Chao Wei, Xugang Dang Shaanxi University of Science and Technology

2.6 Best available technology for chrome effluent treatment. Company Director Wolfram Scholz W2O Environment

16:00 - 17:30

Session 3: Tanning alternatives : metal free

3.1 Silicon-based leather tanning method. Consultant Ingénierie Cuir Thomas Cassenti & Gilles Subra , Titouan Montheil CTC

3.2 Metal-Free Tanning Technology Enabled by Self-Catalyzed Triglycidylamine: A Sustainable Alternative to Chromium-Based Processes. Professor Liqiang Jin & Junzhao, Hao Li, Yulu Wang, Feifei Zhang Qilu University of Technology

3.3 Green chemistry for sustainable leather production. Head of Business Development and Industry Relations Zchimmer & Schwarz & Dr. Sebastian Blanck Aykut Direk Global Head of Development Global Head of Application

3.4 Development of Bisphenol S-Free Syntans for Leather Manufacture. R&D Accountant Wet-End Riccardo Pasquale. GSC Group spa

3.5 Humic Substance Tanning Agent Derived Functional Leather: Enabling Personal Thermal Management and Solar-Driven Seawater Desalination. Ph D Li Ruilong & Longfang Ren; Taotao Qiang College of Bioresources Chemical and Materials Engineering, Shaanxi University of Science and Technology

3.6 Detoxing wet-end chemicals and leathers, ready to realize it! Head of R&D Wet-End Roberta Gamarino Stahl Italy s.r.l. - Wet-End Division

Wednesday, September 10, 2025

8:30 - 10:00

Session 4: Retanning.

4.1 "Three-in-One" strategy based on the on-demand multifunctional fluorescent amphoteric polymer for ecological leather manufacturing: Disruptive wet-finishing technique. Dr Shuang Kiang & Chao Wei, Xuchuang Wang Shaanxi University of Science and Technology

4.2 Luminescent Acrylic Copolymer for Monitoring the Retanning Process of Chrome-free Leather. Decision Chemical

4.3 Synthesis and application of multi-functional amphoteric acrylic polymer for eco-leather manufacturing. Assistant Researcher Yuanhang Xiao & Yixuan Wang, Wei Lin

4.4 Method to use hair from hair-preserving liming of tanneries for retanning. Head of Department Leather and Leather Processing Anke Mondschein & Ekkehard Werner, Volker Rabe, Stefan Dittrich, Michael Meyer FILK Freiberg Institute GmbH

10:30 - 12:00

Session 5: Post Tanning

5.1 Research on the resource utilisation of leather waste based on subcritical technology » Dr Wen Huitao Fujian Key Laboratory of Green Design and Manufacture of leather, Jinjiang

5.2 Preparation of Novel Leather Chemicals Based on Reactive Liquid Salt. Professor Jin Liqiang & Pengfei Qiao, Jiatong Han, Jie Liu, Qinghua Xu, Yulu Wang Qilu University of Technology

5.3 Advanced Functional Materials for Sustainable Lubrication of Leather. Senior scientist Bindia Saha & Akash Bhalla CSIR-Central Leather Research Institute (Council of Scientific & Industrial Research), Chennai, India

5.4 Efficient biosynthesis and molecular mechanisms of collagen-based high-value chemicals. Xia Li, Sichuan University

5.5 One-step construction of a casein-based ionogel self-powered flame retardant system and its application to leather fire monitoring. Professor Qunna Xu & Yanting Deng, Jianzhong Ma Shaanxi University of Science and Technology

14:00 - 15:30

Session 6: Finishing and their properties

6.1 Pickering emulsion approach: A novel strategy to fabricate waterborne polyurethane leather finishing coating with enhanced abrasability and water-resistance comparable to that of solvent-based coating. Teacher Chunhua Wang & Wei Lin Sichuan University

6.2 Top-coating of leather with an effective uv-curable waterborne polyurethane dispersion technology. Giovanni Dalla Valle R&D Researcher & Massimo Cariolato, Giancarlo Lovato Corichem srl

6.3 New plasma application technologies for leather finishing. Business service and R&D manager of Arzignano district Marco Nogarole & Francesco de Laurentiis STAZIONE SPERIMENTALE PER L'INDUSTRIA DELLE PELLI E DELLE MATERIE CONCIANTI SRL

6.4 Development of Sustainable Superhydrophobic Leathers. Research Scholar Sangeetha Dhanapathy Renukadevi & N Nishad Fathima Sangeetha D R

6.5 Construction and Application of MOF-Reinforced Casein-Based Hydrogel Self-Powered Leather for Wearable Electronics. Student Xiaoyu Xu & Qunna Xu, Yanting Deng, Jianzhong Ma Shaanxi University of Science and Technology

6.6 Sustainable Leather Finishing: Optimizing Thermal Properties with Graphene Nanoplatelet-Polyurethane Nanocomposites. Rosario Mascolo, F. Bertocchi (Jaber), C. Azzaretto (Pasubio spa), F. Cilento, B. Palmieri, A. Martone (CNR). Stazione Sperimentale per l'Industria delle pelli e delle materie concianti srl

16:00 - 17:30

Session 7: From Innovation to sustainability

7.1 Development of Multifunctional Leather via Ionic Liquid-Mediated Polyaniline Polymerization. Scientist Renganath Rao & Dr. N. Nishad Fathima, Dr. J. Ragahva Rao CSIR-Central Leather Research Institute

7.2 Long-term Antioxidant and UV-blocking Gelatin Films for the Preservation of Leather Artifacts. Master's student Sushi Liu & Mingrui Zhang, Jie Liu, Keyong Tang School of Materials Science and Engineering, Zhengzhou University

7.3 Viscoelastic characterization of leathers properties: a novel nondestructive method using micro-indentation technique. Researcher Rosario Mascolo & M. Sanfelice (VESevo Smart Technologies), F. Farroni (Università degli Studi di Napoli) Stazione Sperimentale per l'Industria delle pelli e delle materie concianti srl

7.4 Silver Nanoparticle-Enhanced Collagen-Based Triboelectric Nanogenerators: Fabrication and Applications. Associated Professor Yulu Wang Faculty of Light Industry, Qilu University of Technology (Shandong Academy of Sciences)

7.5 New Insights in Stressing Leather – Multi-Scale Simulation of Macroscopic Structure-Property Relations. Head of Accredited Test Laboratory Sascha Dietrich & Katja Schladitz, Julia Orlik (Fraunhofer-Institut für Techno- und Wirtschaftsmathematik ITWM, Kaiserslautern) FILK Freiberg Institute gGmbH

Thursday, September 11, 2025

9:00 - 10:30

Session 8: Sustainability 1

8.1 Direct Pellet Material Extrusion of PLA-Collagen Composites: A Circular Approach to Leather Waste Valorisation. Researcher Rosario Mascolo & Fabio Piccirillo (3D MadeUp, Napoli, Italy), Prof. Giorleo L. (Università degli Studi di Brescia Dipartimento di Ingegneria Meccanica e Industriale)/ T.Cacciatori. Stazione Sperimentale per l'Industria delle Pelli e delle Materie Concianti

8.2 Influence of Retanning Agents on the Compostability of Leather. Head of Business Development and Industry Relations Volker Rabe & Jens Fennen, Biju Francis, Florian Doeppert TFL Ledertechnik GmbH

8.3 Risk analysis for substances of very high concern in leather. Keshuai Ren, Sinolight Inspection & Certification CO., Ltd.

8.4 Assessment of the Reproducibility of ISO 20136 for the Biodegradation of Tanned Leathers: Longitudinal Analysis and Statistical Validation. Dr Marcelo Bertazzo & Alex Migallon; Margarita Rodríguez, Elena Orgilés Calpena INESCOP

8.5 Ecodesign of Bovine Hides and Its Impact on the Global Warming Potential of Automotive Leathers. Sustainability Director Kim Sena & Vivian Dinamarco, Federico Brugnoli, Alessandro Oggioni JBS Couros

8.6 Environmental Impact Analysis of Different Leather Tanning Methods to Optimize Eco-Friendly Process Selection. Researcher and Lecturer Agnes Thomasset & Stéphane Benayoun ITECH / Ecole centrale de Lyon

10:50 - 12:30

Session 9: Sustainability 2

9.1 Leather as Biobased material in an EN 16848 standard context. Director Gustavo Adrian DEFEO CTC ARS TINCTORIA SRL

9.2 Beyond Leather: Functional Proteins for Agriculture and Leather Processing. J. Escabros Trumpler

9.3 Is tanning indispensable for the conversion of rawhide to leather? » Professor Xin Huang Sichuan University

9.4 Hydrolysis of Zeolite-Tanned Leather Shavings. Research officer Zoheb Akhter & Siew Ling Ong, Wouter E. Hendriksen and Sujay Prabakar Leather and Shoe Research Association of New Zealand (LASRA)

9.5 Semi-Synthetic Cationic Peptides Derived from Collagen Show Broad-Spectrum Antimicrobial Activity and High Biosafety. Professor Deli Zhu & Zhang Ruxin, Wang Shuo, Li Bing, Chen Xiangyu, Lu Wenhui and Gao Fengchun Faculty of Light Industry, Qilu University of Technology