

Scientific Programme for the XXXVII IULTCS Congress 2023

Time	Activity/Topic	
October 17, 2023		
14:00-22:00	Registration & Check in (Xanadu Hotel Lobby, 世外桃源酒店大厅)	
18:00-20:00	Buffet Dinner (Provence Western Restaurant, 普罗旺斯西餐厅)	
20:00-21:00	The XXXVII IULTCS Congress Pre-convention Meeting (Crystal Ballroom, 水晶厅) Lecturer: Prof. Yi Chen, Sichuan University	
October 18, 2023 (Lily Banquet Hall B, 百合B厅)		
Opening Ceremony 08:30-09:15		
08:30-08:40	IULTCS Flag/Anthem Ceremony	
08:40-08:50	Speech by	Dr. Joan-Carles Castell , Vice-President of IULTCS
08:50-09:00		Mr. Yuzhong Li , Vice-Chairman of CNLIC, President of CLIA
09:00-09:05		Vice-President of Sichuan University
09:05-09:15	Presentation of IULTCS Merit Award	
09:15-10:00	Heidemann Lecture	Advances in research of collagen-like peptides: from triple helices to fibrils Yujia Xu , Hunter College of the City University of New York, USA
09:15-10:00 Moderator: Prof. Bi Shi		
10:00-10:05	Conference Photo Taking by a Rocker Camera	
10:05-10:30	Coffee Break	
10:30-12:00	Session 1 Chairs: Dr. Joan-Carles Castell & Prof. Haojun Fan	
10:30-10:45	Green functional nanocomposites for leather chemicals Jianzhong Ma , Shaanxi University of Science & Technology, China	
10:45-11:00	Biodegradable tanning and re-tanning agents based on alginate: towards recyclable leather Ilaria Quaratesi , National Research and Development Institute for Textiles and Leather (INCDTP), Romania	
11:00-11:15	Reduction of carbonization and gas emissions using mechatronics based intelligent laser beam machining for cutting leather with better environmental measures for operator health Vasanth Swaminathan , SRM Institute of Science and Technology, India	
11:15-11:30	Controllable oxidation and degradation of lignin: from biomass into tanning and retanning agents for sustainable eco-leather manufacturing Yue Yu , Sichuan University, China	

11:30-11:45	Novel PLA and TPU bio-composites from leather wastes for fused filament fabrication additive manufacturing technologies Rosario Mascolo , Stazione Sperimentale per l'Industria delle Pelli e delle Materie Concianti srl, Italy
11:45-12:00	Improve dyeing levelness of iron-complexed dye on vegetable re-tanned leather Chih-Hao Hsu , Everlight Chemical, China
12:00-14:00	Buffet Lunch (Provence Western Restaurant, 普罗旺斯西餐厅)
14:00-15:30	Session 2 Chairs: Dr. Luis Zugno & Dr. Carmen Gaidau
14:00-14:15	Tuning the supramolecular assembly of collagen through an interplay of electrostatic interaction using ionic liquids Kuntala Banerjee , CSIR-Central Leather Research Institute, India
14:15-14:30	Effect of size of dialdehyde sodium alginate tanning agent on its multiscale mass transfer and tanning performance in leather Ya-nan Wang , Sichuan University, China
14:30-14:45	Histological and microscopic analysis of the characteristics of Ethiopia's cattle hides H. Mohammed , Leather and Leather Products Industry Research and Development Center, Ethiopia
14:45-15:00	Odorless reductive liming, without thiols, thioglycolates and sodium sulphide Giancarlo Lovato , Corichem Srl, Italy
15:00-15:15	Charge modulation for efficient mass transfer of protease in leather bating process Yunhang Zeng , Sichuan University, China
15:15-15:30	Research on aromatic syntans free of restricted bisphenols Juntao Kang , Sichuan Decision New Material Technology Co., Ltd., China
15:30-15:50	Coffee Break
15:50-17:05	Session 3 Chairs: Prof. Yujia Xu & Prof. Jianzhong Ma
15:50-16:05	Simplified beamhouse: one-step unhairing/opening collagen fiber-bundles/bating by dispase after alkali pre-swelling Hui Liu , Henan University of Science and Technology, China
16:05-16:20	Harnessing collagen hydrolysate from sheepskin for sustainable and efficient tanning of bovine leather Yang Liu , New Zealand Leather and Shoe Research Association, New Zealand
16:20-16:35	The application of recombinant <i>WB600/KerT</i> protease with low collagenolytic activity Shan Cao , Qilu University of Technology (Shandong Academy of Sciences), China
16:35-16:50	Determination of the diffusion front in the process of accelerated tanning of leather Vera D. Radnaeva , East Siberia University of Technology and Management, Russia
16:50-17:05	Developments of the ecological tanning based on modified carbohydrates Marco Gentilin , Corichem Srl, Italy
17:05-18:30	Cocktail Reception (Rose Banquet Hall, 玫瑰厅)
18:30-20:30	Welcome Banquet (Lily Banquet Hall A/B, 百合A/B厅)

October 19, 2023

(Lily Banquet Hall B, 百合B厅)

08:30-10:00	Session 4 Chairs: Prof. Geoff Holmes & Prof. Yanchun Li
08:30-08:45	<i>In-situ</i> construction of hydrogel coating on leather surface for flexible wearable devices Qunna Xu , Shaanxi University of Science & Technology, China
08:45-09:00	Bio-mass valorization for high value chemicals Valentina Beghetto , Crossing Srl/Ca' Foscari University, Italy
09:00-09:15	Understanding the bisphenol content of leather: a study of chemical type and processing method Andrew Ballantyne , University of Northampton, UK
09:15-09:30	Research and implementation of leather shrinkage temperature detection method Duo Ning , Shaanxi University of Science & Technology, China
09:30-09:45	A unidirectional water penetration leather designed with dual-gradient structure enables efficient sweat release Yan Bao , Shaanxi University of Science & Technology, China
09:45-10:00	Biodegradable and recyclable OMW leather developed for automotive interior industry Xianjun Liu , Mingxin Automotive leather Co., Ltd., China
10:00-10:20	Coffee Break
10:20-11:50	Session 5 Chairs: Prof. Béatrice Renard & Dr. Cheng-Jen Yu
10:20-10:35	Sustainable chemicals, fitting the future leather trends Jordi Escabrós , Trumpler, Spain
10:35-10:50	Insights into the key odorants in automotive interior leather by application of the sensomics approach Jing Hu , Shanghai Institute of Technology, China
10:50-11:05	Synthesis and properties of novel fluoroacrylate containing rigid cyclohexane structure as a mesogenic core Hao Liu , Shaanxi University of Science & Technology, China
11:05-11:20	Synthesis of isocyanate-based polymeric dye with high coloring component content and its application in the dyeing of organic chrome-free leather Wei Ding , China Leather and Footwear Research Institute Co., Ltd., China
11:20-11:35	Preparation of cow hair waste biochar loaded Prussian blue analogs and its effect on Cs(I) adsorption Yun Li , Yantai University, China
11:35-11:50	Bisphenols: examples for successful reductions in products and leather articles Jeffrey Wu , Stahl Coating and Fine Chemicals (Suzhou) Co., Ltd., China
11:50-14:00	Buffet Lunch (Provence Western Restaurant, 普罗旺斯西餐厅)
14:00-15:30	Session 6 Chairs: Dr. Thierry Poncet & Mr. Yado Birkinesh Gonfa
14:00-14:15	Bridging fields towards sustainability: plant polyphenols as the nexus of bioengineering and metal-organic materials Junling Guo , Sichuan University, China

14:15-14:30	Understanding the mechanism of leather biodegradability: insights into collagen structure, tanning agents, biodegradation tests, and compostability Sujay Prabakar, New Zealand Leather & Shoe Research Association, New Zealand
14:30-14:45	Novel bio-based filler derived from waste cattle hair and its application in PU coating -- a closed cycle strategy of solid waste Feifei Zhang, Qilu University of Technology (Shandong Academy of Sciences), China
14:45-15:00	Zero chemical treatment of leather waste for highly performing, circular and sustainable finishings Claudia Florio, Italian National Leather Research Institute (Stazione Sperimentale per l'Industria delle Pelli e delle materie concianti - SSIP), Italy
15:00-15:15	Effect of dyes on the pyrolysis kinetics, thermodynamics and volatile products of chrome-tanned leather shavings Hao Wang, Zhengzhou University, China
15:15-15:30	Structural design and application performance research of solid lubrication-based retanning fatliquoring agent Shangchu Yao, Sichuan Dowell Science and Technology Inc., China
15:30-15:50	Coffee Break
15:50-17:00	Session 7 Speed Oral Presentation Chair: Prof. Wei Lin
15:50-15:55	Covalently surface-functionalized α-zirconium phosphate nanoplatelets for enhanced ultraviolet barrier, antibacterial, and flame-retardant properties of collagen fibers towards multifunctional leather manufacture Yuxuan Zhang, Shaanxi University of Science & Technology, China
15:55-16:00	Supramolecularly mediated preparation of high-concentration collagen solution for 3D bioprinting Liping Pu, Sichuan University, China
16:00-16:05	"Three-in-One" strategy based on the on-demand multifunctional fluorescent amphoteric polymer for ecological leather manufacturing Chao Wei, Shaanxi University of Science & Technology, China
16:05-16:10	Process effect, pollution analysis, and product quality comparison of wet-blue prepared from seawater vs. industrial water based on benchmarking method Huitao Wen, Xingye Leather Technology Co., Ltd., China
16:10-16:15	Preparation of chrome-free tanning agent by combining mineral sourced fulvic acid with coordination effect: A novel tanning-dyeing integrated strategy Ruilong Li, Shaanxi University of Science & Technology, China
16:15-16:20	Optimization of lipase defatting conditions and the law of electrophilic interaction with collagen protein Xian Du, Sichuan University, China
16:20-16:25	A solvent-free LDH nanofluid for improving the flame retardant properties of leather Lurong Wang, Shaanxi University of Science & Technology, China
16:25-16:30	Turning "waste" into wealth: one-step method to achieve the tanning solid waste "Animal Hair" full conversion and high-value utilization Jialu Shen, Sichuan University, China

16:30-16:35	Renewable fulvic acid as a masking agent together with aluminum to enhance the hydrothermal stability of leather Huaqing Liu , Shaanxi University of Science & Technology, China
16:35-16:40	Bioremediation of leather using laccase for the degradation of phenolic compounds Jinke Liu , Sichuan University, China
16:40-16:45	Influence of high temperature and humidity on the leather tanned with betel nut extract Qijue Chen , Zhengzhou University, China
16:45-16:50	Soil burial degradation of leather tanned by different methods Yuxin Zhang , Sichuan University, China
16:50-16:55	Fabrication of flame retardant casein-based microcapsule as leather finishes Wenting Zhao , Shaanxi University of Science & Technology, China
16:55-17:00	Influence of heel type and height on plantar pressure and gait stability with professional shoes Yihong Zhao , Sichuan University, China
17:00-20:30	Farewell Dinner (Chartered bus to Sichuan Hot Pot Mansion, 玛歌·迪仙庄园火锅芙蓉园店)
October 20, 2023 (Lily Banquet Hall B, 百合B厅)	
08:30-10:00	Session 8 Chairs: Dr. Giancarlo Lovato & Dr. Dietrich Tegtmeier
08:30-08:45	Smart and high-efficiency cleaner nano tanning technology based on modular penetration and controlled release strategy Gongyan Liu , Sichuan University, China
08:45-09:00	Synthesis and application of a polymer auxiliary with silicon Jianxun Luo , Jiaying University, China
09:00-09:15	Exploring biodegradability in leather: impact of tanning and finishing processes Olga Ballús , Cromogenia Units, S.A., Spain
09:15-09:30	The chemical degradation of vegetable tanned sheepskin leather under acidic condition Qiannan Fan , Zhengzhou University, China
09:30-09:45	Application of ozone in reduction of pollutional load and removal of colour - innovative technologies S. Rajamani , Indian Leather Technologists Association (ILTA), India
09:45-10:00	Recovery and recycling of unused chemicals in commercial wet blue manufacture R. P. Daniels , BIOSK (SQ) Chemicals Co., Ltd., China
10:00-10:20	Coffee Break
10:20-11:50	Session 9 Chairs: Dr. Sengoda Gounder Rajamani & Prof. Keyong Tang

10:20-10:35	Sustainability challenges of tanning industries in Ethiopia Mishamo Wakaso , Leather and Leather Products Industry Research and Development Center, Ethiopia	
10:35-10:50	Functional organogel e-Skin as strain, temperature and humidity sensors for health monitoring Haibin Gu , Sichuan University, China	
10:50-11:05	Sustainable porous activated carbon as a potential electrode material for flexible supercapacitor application Venkatesan Natesan , CSIR-Central Leather Research Institute, India	
11:05-11:20	Collagen peptide improves bioethanol yield in the fermentation process of <i>Saccharomyces cerevisiae</i> Xia Li , Sichuan University, China	
11:20-11:35	Achieving the evolution of radiation Protection materials by integrating the merits of leather Yaping Wang , Sichuan University, China	
11:35-11:50	Application of functional footwear comprehensive scene simulation laboratory Wenxiao Zheng , Jihua 3515 Leather and Leather Shoe Co., Ltd., China	
11:50-12:20	Closing Ceremony (Lily Banquet Hall B, 百合B厅)	
11:50-11:55	Closing Remarks by Prof. Bi Shi, Sichuan University	Moderator: Dr. Luis Zugno
11:55-12:05	Certificate to Sponsors of the XXXVII IULTCS Congress	
12:05-12:15	IULTCS Flag/Anthem Ceremony	
12:15-12:20	Introduction by Dr. Thierry Poncet on the XXXVIII IULTCS Congress in Lyon, France	
12:20	Closing of the XXXVII IULTCS Congress	
12:20-14:00	Buffet Lunch (Provence Western Restaurant, 普罗旺斯西餐厅)	
14:00-15:00	Visit of National Engineering Laboratory for Clean Technology of Leather Manufacture	
15:00-17:00	Tour of Sichuan University Museum	