

International Congress Centre Dresden

SCIENTIFIC PROGRAMME^{*}

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INTERNATIONAL UNION OF LEATHER TECHNOLOGISTS AND CHEMISTS SOCIETIES

*Please note, the scientific programme might be subject to change.

DAY 2

E. E. Bayramoglu / A. Özcelik / M. Çetin / E. Eren

10:00 a.m. – 12:00 a.m. Seminar 3/4	8:00 a.m. – 9:00 a.m. Foyer – Hall 1/2		
UE MEETING	REGISTRATION - DOORS OPEN		
12:00 a.m. – 1:00 p.m. Seminar 5/6	9:00 a.m. – 9:15 a.m. Hall 1/2		
AICLST MEETING	GREETINGS		
1:00 p.m 2:00 p.m. Seminar 3/4	9:15 a.m. – 10:00 a.m. Hall 1/2		
UR MEETING	HEIDEMANN LECTURE		
2:00 p.m3:00 p.m. Seminar 5/6	9:15 a.m. As tough as leather: Macro to nano scale perspectives of collagen stability (#48) K. L. Goh		
UT MEETING	10:00 a.m. – 10:30 a.m. Exhibition Hall		
3:00 p.m 5:00 p.m. Seminar 3/4	COFFEE BREAK		
ULTCS EC MEETING	10:30 a.m. – 11:30 a.m. Hall 1/2		
4:00 p.m. – 8:00 p.m. Foyer	SESSION 1		
START REGISTRATION	10:30 a.m. Fine hair on American bovine leathers (#108) L. A. Zugno / A. Rhein		
6:00 p.m. – 8:10 p.m. Hall 1/2 ULTCS OPENING CEREMONY	10:45 a.m. Biotechnology for environmently-friendly leather production (#297) J. Y. Liu / G. Holmes		
5:00 p.m. Doors open	11:00 a.m. The Hunt for Red Microba: Identifying the microbial agents in "red heat" contamination of salt-cured		
5:30 p.m. Start Opening Ceremony	bovine hide (#300) <u>S. Grace</u> / M. Ahn / M. L. Patchett / G. E. Norris		
8:15 p.m. – 10:00 p.m. Terrrace Level with Foyer WELCOMING RECEPTION	11:15 a.m. Structure and tanning properties of dialdehyde carboxymethyl cellulose: Effect of degree of substitution (#94) <u>Y. Yi</u> / W. Ding / C. Huang / YN. Wang / B. Shi		
	11:30 a.m. Investigation on Reducing Chromium Quantity in Chromium Containing Wastes of Leather Industry Using Oyster Mushroom <i>(Pleurotus ostreatus)</i> (#289)		

3:50 p.m. Biopolymers for a more sustainable leather (#154)

4:05 p.m. Lignin-Modified Phenolic Syntan: A Contributor to Our

M. Bertoldini / R. Sole / V. Beghetto

R. Rumnit / R. Pauli / R. Meulenbroek

L. Taddei / F. Ugolini / G. P. Bonino / G. Giacomelli / C. Franceschi /

Bio-Based Solutions (#129) Y. Ma / P. Berends / M. Wijland /

11:45 a.m. – 1:00 p.m. Restaurant – Exhibition Hall LUNCH BREAK POSTER SESSION 1 (INDEX) 1:00 p.m. – 1:20 p.m. Hall 1/2		Investigation on the release kinetics of chrome from finished chrome tanned leather (#138) J. W. Long / <u>Q. L. Peng</u> / R. Wang / H. W. Zhang / B. Shi
		Preservation of Bovine Hide using Less Salt with Low Concentration of Antiseptic (#265) <u>M. I. Sarker</u> / W. Long III / CK. Liu / N. Latona / G. Piazza
	2:32 p.m.	A Novel Microspheres Composite Hydrogels Cross- linked by Methacrylated Gelatin Nanoparticles: Enhanced Mechanical Property and Biocompatibility (#45 C. Wang / C. Mu / W. Lin
	2:38 p.m.	Review of the scientific and technological literature of fungicides in tannery industry: reducing the use and increasing the efficiency of fungicides in the leather industry (#195) Z. Biehl
Modern unhairing technologies for effective control of H2S release from Beamhouse operations (#55) J. Fennen / <u>C. Gabagnou</u> / D. Herta	2:41 p.m.	Analysis of the Functional Components of Acid Protease and Investigation of Bating Mechanism of Wet-blue (#36 <u>H. Li</u> / S. Cao / Y. C. Li / D. Y. Zhu / C. H. Jiang / T. P. Yu
A Novel Preservation-cum-Unhairing Process for Sustainable Leather Manufacturing: An Unconventional Approach in Leather Making (#245) <u>R. R. Jonnalagadda</u> / S. Murali / A. Rathinam / T. Palanisamy	2:45 p.m. COFFEE F	– 3:30 p.m. Exhibition Halll
Unhairing and Fiber bundle-opening of Cowhides using KCl and LiBr/[AMIm]Cl Assisted Neutral Protease for Leather Making (#223) H. Liu / Q. Zhang / Y. Zhang / X. Li / K. Tang / J. Liu / X. Zheng / Y. Pei	3:30 p.m.	POSTER SESSION 2 (INDEX) -3:50 p.m. Hall 1/2
Adsorptive removal of sulfate, phosphate and chloride by Mg-Al and Zn-Al Layered Double Hydroxides from aqueous solutions (#241) M. Maia / O. Perez-Lopez / <u>M. Gutterres</u>	<mark>КЕУ_NOT</mark> 3:30 p.m.	E Brazilian Leather Certification of Sustainability (#32) <u>A. Flores</u>
.–2:45 p.m. Hall 1/2		5:05 p.m. Hall 1/2
	BREAK POSTER SESSION 1 (INDEX) 1:20 p.m. Hall 1/2 E Sulfide unhairing: rethinking the received wisdom (#228) W.R.Wise / A. D. Ballantyne / A. D. Covington 2:20 p.m. Hall 1/2 2 Modern unhairing technologies for effective control of H2S release from Beamhouse operations (#55) J.Fennen / C. Gabagnou / D. Herta A Novel Preservation-cum-Unhairing Process for Sustainable Leather Making (#245) R. R. Jonnalagadda / S. Murali / A. Rathinam / T. Palanisamy Unhairing and Fiber bundle-opening of Cowhides using KCl and LiBr/[AMIm]Cl Assisted Neutral Protease for Leather Making (#223) H. Liu / Q. Zhang / Y. Zhang / X. Li / K. Tang / J. Liu / X. Zheng / Y. Pei	BREAK POSTER SESSION 1 (INDEX) 2:26 p.m. 1:20 p.m. Hall 1/2 IE 2:32 p.m. Sulfide unhairing: rethinking the received wisdom (#228) 2:32 p.m. W. R. Wise / A. D. Ballantyne / A. D. Covington 2:38 p.m. 2:20 p.m. Hall 1/2 2 Modern unhairing technologies for effective control of H2S release from Beamhouse operations (#55) 2:41 p.m. J. Fennen / C. Gabagnou / D. Herta 2:45 p.m. A Novel Preservation-cum-Unhairing Process for Sustainable Leather Manufacturing: An Unconventional Approach in Leather Making (#245) R. R. Jonnalagadda / S. Murali / A. Rathinam / T. Palanisamy 2:45 p.m. Unhairing and Fiber bundle-opening of Cowhides using KCI and LiBr/[AMIm]CI Assisted Neutral Protease for Leather Making (#223) H. Liu / Q. Zhang / Y. Zhang / X. Li / K. Tang / J. Liu / X. Zheng / Y. Pei 3:30 p.m. Adsorptive removal of sulfate, phosphate and chloride by Mg-Al and Zn-Al Layered Double Hydroxides from aqueous solutions (#241) M. Maia / O. Perez-Lopez / M. Cutterres 3:30 p.m.

- SPEED SCIENCE
- 2:20 p.m. Constructive application of marine algae for collagen stabilization: Molecular insight on its interaction with leather protein (#232) G. C. Jayakumar / A. Tamil Selvi / <u>V. J. Sundar</u> / S. V. Kanth

DAY 2

4:20 p.m.	Acrylic resins in wet white (#147) O. Ballus	9:30 a.m.	 Denoising and Segmentation of MCT Slice Images of Leather Fiber (#170) Y. Hua / J. Lu / H. Zhang / J. Cheng / W. Liang / T. Li Strong skin, not always thick: Comparative structural and molecular analysis of deer skin and cow hide (#30) <u>R. Naffa</u> / C. Maidment / G. Holmes / G. Norris 		
4:35 p.m.	Comparative Studies on Effect of cationic and anionic finishing agents on Surface Property of Finished Leather (#243) <u>M. W. Wajino</u> / A. D. Dhathathreyan / S. V. K. V. Kanth				
		9:45 a.m.			
4:50 p.m.	High Exhaustion Sytem (HES) for leather process: Role				
of biocatalyst as an exhaustive aid for wet-end (#235) <u>G. C. Jayakumar</u> / V. Karthik / A. D. Asan Fathima / A. Tamil Selvi / C. Muralidharan / S. V Kanth		10:00 a.m.	3D Image Based Structural Analysis of Leather for Macroscopic Structure-Property Simulation (#226) S. Dietrich / H. Schulz / K. Hauch / K. Schladitz / M. Godehardt / J. Orlik / D. Neusius		
7:00 p.m	o:oo midnight Terrassenufer - Elbe River		J. Olik / D. Neuslus		
RIVER CR	UISE NIGHT	9:00 a.m.	– 10:15 a.m. Hall 1/2		
7:00 p.m.	Boarding	ENGINEER	ENGINEERING SESSION 1		
	Departure	9:00 a.m.	For the qualification of leather, you need a human! Is that really the case? (#295) <u>M. Bruder</u>		
10:30 p.m.	Arrival back in Dresden Terrasenufer	9:15 a.m.	Automation in a tannery. TanWare [®] – discontinuous steps, continuous data (#267) <u>L. Sauer</u>		
DAY	JUNE 27 – THURSDAY	9:30 a.m.	IRIS, in line system for colour quality control (#311) <u>M. Oomens</u> / L. de Luca		
		9:45 a.m.	Steel meets leather – The influence of cutting parameters in the leather splitting process (#259) <u>G. E. Hank</u>		
8:00 a.m	9:00 a.m. Foyer - Hall 1/2	10:00 a.m.	The New Cutting Edge – taking the shaving process to		
REGISTR	ATION – DOORS OPEN		the next Level (#310) P. Küchler / J. Nijkamp		
Freiberg L	eather Days Participants joining	10:15 a.m	.–11:05 a.m. Exhibition Hall		
0:00 a.m	.–10:15 a.m. Seminar 1	COFFEE B	REAK		
SESSION	2		POSTER SESSION 3 (INDEX)		
9:00 a.m.	Ageing processes and characterization methods for historical bookbinding leather (#23) <u>M. Anders</u> / K. Marcula / K. Schuhmann		.– 12:05 p.m. Seminar 1		
		SESSION	5		

9:15 a.m. Towards a molecular level understanding of chrome tanning: Interplay between collagen structure and reactivity (#2) Y. Zhang / J. Buchanan / G. Holmes / S. Prabakar 11:05 a.m. Traceability of hides and skins: from field to leather (#212) T. Poncet / C. Vigier

- 11:20 a.m. False Positives II Chlorophenols identification towards HPLC-DAD-MS analysis compared with ISO 17070:2015 technique (#236) G. A. Defeo / M. Borgheresi / M. De Cicco / B. Carpignani
- 11:35 a.m. Extraction of New Vegetable Tanning Agent from Coriaria nepalensis Bark and Its Application in Tanning (#145) L. Guo/ T. Qiang / Y. Ma / X. Wang
- 11:50 a.m. Modelling charge across pH and the iso-electric point of bovine collagen during leather manufacture (#256) <u>A. D. Ballantyne</u> / S. J. Davis

11:05 a.m. – 12:30 p.m.

Hall 1/2

ENGINEERING SESSION 2

- 11:05 a.m. COLD MILLING: innovative temperature/humidity control on milling operation (#39) A. Peruzzi / A. Galiotto
- 11:20 a.m. Premium class leather quality From tanning over embossing to perforating (#302) J. P. Hildebrand
- 11:35 a.m. Automatic Leather Species Identification using Machine Learning Techniques (#261) <u>M. Jawahar</u> / S. V. Kanth / V. Rajangam / T. Selvi
- 11:50 a.m. Personal Assistent vs basic sewing machine The new generation of intelligent sewing systems (#306) <u>M. Schäfer</u>
- 12:05 p.m. Go Digital: Accelerate Industry 4.0 in the Leather Cutting Room (#254) <u>H. Max-Lang</u>

12:05 p.m. – 12:30 p.m.

Seminar 1

SPEED SCIENCE

- 12:05 p.m. Sound absorbing nanofibers from tannery solid waste: Trash to treasure (#255) S. Selvaraj / R. R. Jonnalagadda / <u>N. N. Fathima</u>
- 12:08 p.m. Does post tanning chemicals influence sewability of leathers: An approach towards re-instigating the post tanning process (#249) G. C. Jayakumar / <u>K. Phebe Aaron</u> / A. Fathima / V. Swarna

12:11 p.m.	Chemical Safety and Occupational Safety and Health		
-	under the banner of REACH, CLP and National		
	Occupational Safety and Health Legislation (#22) T. Martin		

- 12:14 p.m. Use of different pre-treated chromium leather shavings to produce biogas in continuous scale (#244) <u>C. S. Gomes</u> / J.-U. Repke / M. Meyer
- 12:17 p.m.
 Keratin derived from tannery cattle hair waste used for the preparation of waterborne polyurethane (#113)

 J. Liu / F. F. Zhang / Z. C. Liu / H. Li / X. S. Li
- 12:20 p.m. Closed loop systems for liming and tanning hides and skins at large and cottage-scale (#57) R. P. Daniels

12:30 p.m. – 1:35 p.m.

Restaurant – Exhibition Hall

LUNCH BREAK

POSTER SESSION 4 (INDEX)

1:35 p.m. – 1:55 p.m.

Hall 1/2

KEY NOTE

1:35 p.m. Automotive leathers – evaluating the performance limits (part II) (#66) <u>S. De Vecchi</u> / J. Christner / S. Summa / A. Rama / R. Ampuero / D. Rinaldi

1:55 p.m.-2:55 p.m.

Hall 1/2

SESSION 6

1:55 p.m.	Investigation on VOC Content from Car Interior Finishing Systems and Its Influence on Leather Performances (#61) <u>R. Pasquale</u> / D. Cisco / T. Pellegrini
2:10 p.m.	Development of sustainable Re-Tanning Agents from Fungal Degradation of Lignosulfonates (#77) J. Ammenn
2:25 p.m.	Chrome tanning process and the leather properties under microwave irradiation (#92) J. Zhang / J. Wu / W. Chen
2:40 p.m.	Study on the antibacterial properties of leathers tanned with natural tannins and their interactions with shoes inhabiting bacteria (#15) <u>E. Poles</u> / A. Polissi / A. Battaglia / S. Giovando / M. Gotti

DAY 4

10:50 a.m. – 11:10 a.m.

10:50 a.m. Capturing the Environmental Impact of Leather Chemicals (#190) M. P. Costello

KEY NOTE

Hall 1/2

2:55 p.m.	-3:20 p.m. Hall 1/2	8:00 a.m.	9:00 a.m.	Foyer – Hall 1/2		
SPEED SCIENCE		REGISTR	REGISTRATION - DOORS OPEN			
2:55 p.m.	Study on the application of a new multi-epoxy reinforcement agent for sheep leather (#246) <u>X. Pang</u> / N. Liu / W. Ding / X. Liao / Z. Ding	Freiberg Leather Days Participants joining				
2:58 p.m.	A pragmatic Approach towards the Manufacture of wet- white Leathers using a bio-polymeric Tanning System (#240) <u>P. N. Kariuki</u> / A. Yasothai / G. C. Jayakumar / S. V. Kanth	9:00 a.m. – 9:20 a.m. Hall 1/1 KEY NOTE				
2:58 p.m.	Cleaner Chrome Tanning – Technology of low-chrome tanning without salt, pickling and short procedure (#146) L. Jianxun / F. Yanjuan / M. Hewei		Minimizing Emissions of automotive <u>V. Rabe</u> / R. Graupner von Wolff / M. Kleban — 10:20 a.m.	Hall 1/2		
3:07 p.m.	Advanced diagnostics and innovative solutions for leather defects: the problem of yellowing (#78) C. Florio /	SESSION 7				
1120 p m	R. Aveta / G. Calvanese / B. Naviglio		Sustainable Value Creation from Lea Preparation of Shoe Soling Material (#26) S. Gupta / S. Ponsubbiah / S. K. Gupta	using Nano Fillers		
COFFEE		9:35 a.m.	Extended Surfactants for Leather (#2	218) A. Kilikli / I. Reetz		
	POSTER SESSION 5 (INDEX)	9:50 a.m.	Factors affecting penetration of acry leather during retanning process (#1 M. Cao / B. Shi			
VGCT ME		10:05 a.m.	Biopolymer-Liposome composite for Applications – a "green" Approach tr Transport and Delivery of natural Oil D. Aruna / K. J. Sreeram	o optimal		
CONGRESS DINNER		10:20 a.m	1.–10:50 a.m.	Exhibition Hall		
		COFFEE E	REAK			

Hall 1/2

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POSTER SESSIONS 1-2

SESSION 8

11:10 a.m. – 12:25 p.m.

- 11:10 a.m. Novel blades for shaving a new approach to understanding the shaving process (#242) P. Küchler / T. Witt / A. Nikowski / E. Klüver / M. Meyer
- 11:25 a.m. Automation in Leather Making A Cleaner Production Approach (#271) R. C. Panda / J. Kanagaraj
- 11:40 a.m. Synthesis and Application of Dendritic-linear Polymer PAMAM-Si for Leather Fatliquoring Process (#120) X. Wang / S. Sun / H. Wang / J. Li
- 11:55 a.m. Synthesis of Cationic Protein with High Quaternary Ammonium Coefficent for Adsorption Dyes Application in Leather Retanning (#150) J. Xu / J. M. Lu / T. D. Li
- 12:10 a.m. Mesoporous Hollow SiO2 Spheres Stabilized Pickering Emulsion to Improve Water Vapor Permeability and Water Resistance for Leather Finishing Agent (#199) Y. Bao / Y. Zhang / J. Ma

12:25 p.m.-1:00 p.m.

Restaurant – Exhibition Hall

LUNCH BREAK

1:00 p.m.-1:45 p.m.

Hall 1/2

SESSION 9

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1:00 p.m. Sustainability 4.0 - the passport to our future D. Tegtmeyer
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- 1:20 p.m. "Zirkeltraining" a Recycling/Upcycling example for
- Leather B. Dörra / M. Kreykenbohm
- 1:35 p.m. Image campaign Leather Naturally! E. Dikkers

1:45 p.m. – 2:20 p.m.

Hall 1/2

CLOSING CEREMONY

POSTER SESSION 1

P1-01 Effects of graphene oxide on the thermal properties of bovine hide powders (#214) L. Luo

P1-02 Biocolorant for leather post tanning applications: An eco-benign study (#216) T. Alagumuthu

P1-03 Preparation and properties of a wood adhesive based on leather wastes modified by blocked waterborne polyurethane (#141) X. Wang

P1-04 Measurement of leather surface: variability in the measurement using electronic and pin wheel devices on different kind of leathers (#308) R. Mascolo

P1-05 Primary Treatment of Tannery Wastewater using biopolymer Chitosan (#309) P. R. Burusa

P1-06 Study on the preparation and characterization of nonionic silicone wetting agent used in waterborne polyurethane (#103) F. F. Zhang

P1-07 Preparation and Properties of Collagen/ Sodium Humate Blend Solution (#112) Z. Tian

P1-08 Evaluation of ecotoxicity of typical surfactants for leather manufacture by luminescent bacteria (#121) W. M. Han

P1-09 Novel method for preparing fish collagen gels with excellent physicochemical properties via the dehydration of ethanol (#122) L. Shen

P1-10 Development of poly(Styrene-b-sodium acrylate) for cleaner wet end application (#123) M. S. Alam

P1-11 Application of Vegetable Bark Extract as Alternative Retanning Agent for Leather Processing (#12) A. E. Musa

P1-12 Influence of Photoperiod on Biomass Production and Removal of Nutrients from Tannery Effluents with microalgae Consortium (#19) A. D. C. C. Pena

P1-13 Modified Polyacrylates as a new Leather Retanning Agents (#20) M. Canudas

P1-14 Development and Investigation of Low collagen degradability Unhairing Enzyme (#21) S. Cao

P1-15 Enhancing performance properties of conventional leather finishing topcoat by incorporating metal oxide based formulations (#31) S. Gupta

P1-16 Polymeric bio-composites: Cleaner leather processing and its role in property enhancement of tanned leather (#34) S. Sharmila

P1-17 Dissolution of Collagen Fibers from Tannery Wastes in Ionic Liquid and Regenerative Morphology (#41) Y. Pei

P1-18 Minus salt goat skin preservation: Extreme chloride reduction in tannery wastewater (#43) M. A. Hashem

P1-19 Characteristics Analysis of High Mechanical Strength Gymnastic Leather and Its Producing Process Optimization (#44) J. Song

P1-20 Quality of Leather Products as Seen from the Consumer's Standpoint (#46) D. Murai

P1-21 The Effect of Molecular Size of Plasticizer and Crosslinking Agents on the Properties of Gelatin films (#47) X. Zheng

P1-22 Sorption comparison of trivalent chromium on various Ficus carica charcoal from tannery wastewater (#54) M. A. Hashem

P1-23 Sustainable Tannery Effluent Treatment System with TDS Management (#58) S. Rajamani

P1-24 LIFE GOAST Green Organic Agents for Sustainable Tanneries (GOAST) (#62) R. Pasquale

P1-25 A new system to measure leather shrinkage temperature (#68) J. M. Morera

P1-26 Optimization of chamois oxidation process of leather using benzoyl per oxide as oxidizing agent (#70) B. Sahu

POSTER SESSION 2

SPSC1-01 Constructive application of marine algae for collagen stabilization: Molecular insight on its interaction with leather protein (#232) A. Tamil Selvi

SPSC1-02 Investigation on the release kinetics of chrome from finished chrome tanned leather (#138) J. W. Long

P2-01 Biodegradation of chrome shavings using Bacillus Sp. (MG995009), a chrome resistant Bacterium (#217) A. Sindhuja

P2-02 Preparation of Prussian Blue Nanoparticles / Polyacrylate Composite for Selfhealing Leather Finishing Agent (#142) J. Zhang

P2-03 Study on the Difference of Collagen Fibre Structure Caused by Epoxy Resin Embedding (#143) J. Lu

SPSC1-03 Preservation of Bovine Hide using Less Salt with Low Concentration of Antiseptic (#265) M. I. Sarker

SPSC1-05 A Novel Microspheres Composite Hydrogels Cross-linked by Methacrylated Gelatin Nanoparticles: Enhanced Mechanical Property and Biocompatibility (#45) C. Wang

SPSC1-07 Review of the scientific and technological literature of fungicides in tannery industry: reducing the use and increasing the efficiency of fungicides in the leather industry (#195) Z. Biehl

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POSTER SESSIONS 4-5

 $\label{eq:spsc1-08} \begin{array}{l} \text{SPSC1-08 Analysis of the Functional} \\ \text{Components of Acid Protease and Investigation} \\ \text{of Bating Mechanism of Wet-blue (}\#_{3}6) \mbox{ H. Li} \end{array}$

P2-04 Study of the application of wb600-kert in unhairing process (#74) Y. Shen

P2-05 Characteristics of typical pollutants in tannery site soil: a review (#75) X. Teng

P2-06 Ti (III)-tannin combination tanning technology based on microwave irradiation (#76) J. Wu

P2-07 A Novel Collagen Extraction Method Based on Microwave Irradiation (#79) Y. Cheng

P2-08 Influence of mildew on the contents of free fatty acids in leather (#86) L. Jin

P2-09 Minimization of the environmental impact in the chrome tanning process by a closed-loop recycling technology (#95) L. Jin

P2-10 Characterization of Volatile Organic Compounds (VOC) in wet-white and metal-free leathers (#97) B. Naviglio

P2-11 High-efficiency chrome tanning using pre-treatments: synchrotron SAXS and DSC study (#98) Y. Zhang

P2-12 Crafting Casein-Templated Porous TiO2 Nanosphere for Bionic Intelligent Leather Surface (#100) Q. Fan

POSTER SESSION 3

P3-01 Collagen modified Base of Unfigured Sea-island Superfine Fiber Synthetic Leather Based on "Click Chemistry": Constructions and Moisture permeability (#189) N. Xu

P3-02 Developing a Novel Method to Reduce the Impact of Corrosive Attacks on Skin. (#159) W. R. Wise

P3-03 Effects of soluble soybean polysaccharide as filling agent on the properties of leathers (#224) Z. Tang

P3-04 Crafting Flame Retardant Casein-based Mg-Al LDH Nanocomposite Leather Finishing Agent (#148) W. An

P3-05 Resource utilization-Preparation and Application of a sulfited Fat-liquor based on Waste beef tallow from Tannery (#152) L. Ruhui

P3-06 Observation and Analysis of Leather Structure Based on Nano-CT (#153) H. Zhang

P3-07 Microencapsulation of clove essential oil with gelatin and alginate (#164) V. V. Kopp

P3-08 A new material for Turkish Leather Industry: Fish Skin (#165) F. Akyüz

P3-09 Sustainability disclosure in the leather industry: A content analysis of selected sustainability reports (#166) O. Omoloso P3-10 Fabrication of Casein/MOFs Composite Emulsion for Breathable Antibacterial Bifunctional Leather Finishes (#172) Q. Xu

P3-11 Study on Self-crosslinking of Hydrogen Peroxide Oxidating Collagen (#192) L. Fu

P3-12 New Wet White/Chrome Free Process offering significant Environmental and Physical Property advantages from Beamhouse to Crust (#194) J. J. Osgood

P3-13 Hygienic Property and Water Resistance of Waterborne Polyacrylate/Flower-like ZnO Composite Coatings (#197) Y. Bao

P3-14 Phosphate Modified Polyacrylate Emulsion and its Flame Retardancy (#198) Y. Bao

P3-15 A Research on the Use of Aluminum Sulphate in Parchment Production and its Effects on Ageing and Color (#202) E. E. E. Bayramoglu

P3-16 Development and practical application of unhairing method without using sulfide (#205) K. Takase

P3-17 Collagen stabilization using ionic liquids: A molecular level study (#206) A. Tarannum

P3-18 A sustainable approach to biodegradation of leather (#210) Y. Khambhaty

POSTER SESSION 4

SPSC2-03 Does post tanning chemicals influence sewability of leathers: An approach towards re-instigating the post tanning process (#249) K. Phebe Aaron

SPSC2-04 Chemical Safety and Occupational Safety and Health under the banner of REACH, CLP and National Occupational Safety and Health Legislation (#22) T. Martin

P4-01 Sound absorbing nanofibers from tannery solid waste: Trash to treasure (#255) N. N. Fathima

SPSC2-05 Monitoring of biogas production from tannery solid wastes at-line in a laboratoryscale anaerobic digester (#163) M. Gutterres

SPSC2-06 Use of different pre-treated chromium leather shavings to produce biogas in continuous scale (#244) C. S. Gomes

SPSC2-07 Keratin derived from tannery cattle hair waste used for the preparation of waterborne polyurethane (#113) J. Liu

SPSC2-08 Closed loop systems for liming and tanning hides and skins at large and cottagescale (#57) R. P. Daniels

P4-02 Towards an understanding of the thermal decomposition behaviors of wet blue leather: the chrome-retanning effect (#213) J. Liu

P4-03 Effects of different salt-enzymes on opening up of collagen fiber bundles for leather making (#230) Y. Zhang

P4-04 Collagen Hydrolysate from Limed Pelt Trimmings for the Application of Retanning (#231) M. H. Seid

P4-05 Leathers for marine applications: Instigating physico-chemical properties of conventional leather (#233) J. Gladstone Christopher

P4-06 Striding towards self Sustainability using Aluminium from Tanzanian Kaolin for Combination Tanning System (#234) C. R. China

P4-07 Leather quality as a function of cattle breed (#248) S. Stenzel

P4-08 Development of a tanning technology with Tanning agents from Ligustrum vulgare (#250) M. Schröpfer

P4-09 Application of silanes in leather tanning (#251) J. Benvenuti

P4-10 Tuning the self-assembly of Type (I) collagen (#252) R. K. Chanasma

P4-11 Investigation of the Reaction Mechanism between Bovine Collagen and a Triazine-Based Coupling Reagent (#253) G. Pozza

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Imprint

Publisher Verein für Gerberei-Chemie und -Technik e. V. Meißner Ring 1–5 D-09599 Freiberg

Designer and Editor 599media GmbH Platz der Oktoberopfer 5 D-09599 Freiberg

FILK GmbH Meißner Ring 1–5 D-09599 Freiberg

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Email: info@vgct.de www.vgct.de www.iultcs2019.org