

Program

Headlines of the XXXIII IULTCS Congress

- Fundamental research in Collagen and in Leather Science and Technology
- New sustainable developments in leather making processes and operations, waste treatments and use of residues
- Innovative leather making and waste treatment technologies successfully used nowadays in full scale tannery production
- New developments in chemical products and materials for the tanning industry
- Optimization of the use of energy and machinery in leather industry

- Advanced leather analysis
- 3 Safety and health in the leather industry
- Design, fashion and marketing in the leather industry
- New global requirements carbon footprint, novel international certifications, others and their effect on leather making

24th November 2015, Tuesday

15:00 - 23:00	Registration - FEEVALE Theatre	
12:00 - 14:00	Asian International FORUM & LIAISON, 2016 Asian Congress in Beijing	Swan Tower Hotel
14:00 - 16:00	IUE Commission meeting	Swan Tower Hotel
16:00 - 18:00	IULTCS EC meeting	Swan Tower Hotel
18:00 and 18:45	Departure from Official Hotels to FEEVALE Theatre	
19:30	Solemn opening of XXXIII IULTCS Congress - Welcoming cocktail	Costume High sport
23:00	Returning to the Official Hotels	



25th November 2015, Wednesday

08:30 - 09:30	Opening Ceremony
09:30 - 09:45	IULTCS Merit Award
09:45 - 10:15	Heidemann Lecture - James San Antonio

10:15 - 10:45	Coffee Break
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Session I

Chairmen: Luiz Zugno & Regina C. Teixeira

TIME	HEADLINE	TITLE	NR	PRESENTER
10:45 - 11:05	1	Selective filling of loose structured areas and blood-veins in leather with polymeric lightweight particles	157	Jens Fennen
11:05 - 11:25	1	Changes in tear resistance of bovine hides during the chrome tanning process	015	Ricardo Tournier
11:25 - 11:45	1	Enthalpic and entropic contributions to the stability of fibrous collagen in untanned and tanned state at varying humidities	133	Michael Meyer
11:45 - 12:05	1	Three-dimensional (3-d) reconstruction of the leather fiber bundles	017	Huayong Zhang

12:05 - 13:30 Lunch - IUC/IUF/IUP Commissions meeting

Session II

Chairmen: Mariliz Gutterres & Roberto Kamelman

TIME	HEADLINE	TITLE	NR	PRESENTER
13:30 - 14:00	Invited Speaker	Leather Innovation. The Brazilian Design Case		Maurício Medeiros
14:00 - 14:20	1	Collagen structure and strength in leather	024	Richard Edmonds
14:20 - 14:40	1	Ionic Liquids: Role of "task specific" or "designer" materials in leather making	029	Nishad Fathima
14:40 - 15:00	1	Investigations about the binding mechanisms of vegetable tanning agents to collagen	132	Michaela Scrhoepfer
15:00 - 15:20	1	Qualitative evaluation of crossbred cattle leathers	146	Manuel A. C. Jacinto
15:20 - 15:40	1	A novel method for determining surface charge and isoelectric point of leather	091	WangYanan

15:40 - 16:10 | Coffee Break

Session III

Chairmen: Patricia Casey & Bi Shi

TIME	HEADLINE	TITLE	NR	PRESENTER
16:10 - 16:30	1	Study on the pyrolysis behaviors and mechanism of leathers in inert atmosphere	103	Keyong Tang



16:30 - 16:50	4	Development of products from Acacia mearnsii: a case of sustainability in the leather industry	006	Carlos Rodolfo Wolf
16:50 - 17:10	4	A new formulation for the treatment of acid- deterioration (Red Rot) in historic leathers	065	A. Lama
17:10 - 17:30	4	High performance Acrylic Polymer Technology for use in leather finishing processes (ALCA LOLLAR AWARD - 2015)	070	Joseph Hoefler
17:30 - 17:50	4	Biodegradation and Biogas Production from solid waste of tanneries	120	Caroline Agustini
17:50 - 18:10	4	Influence of an amphoteric retanning agent on the properties of leather. Part II	125	Olga Ballus

Visual Presentation 25th November 2015, Wednesday 4th Floor

TIME	HEADLINE	TITLE	NR	PRESENTER
All day	1	Effect of chrome tanning on the thermal behavior of collagen fibers: A calorimetric and kinetic analysis	004	Wentao Liu
All day	1	Towards a mechanistic understanding of stress- strain behavior in leather	012	Richard L. Edmonds
All day	4	Reduction of Yellowing Effect on Leathers with UV Absorber Benzophenone-4	020	Safiye Meriç Açıkel
All day	1	Characterization of collagen fibers air-gap spun from highly concentrated solutions	039	Osamu Harada
All day	1	Degradability of Chrome Tanned Hide Collagen with Penicillium	040	Jinwei Zhang
All day	1	Improving The Properties of Wet-White Tanned Leather Characteristics By Using Collagen-Based Biopolymer	048	Bahri Basaran
All day	4	Preparation and Application of Polysiloxane-grafted Polyamide-amine Fatliquoring Agent	056	Xuechuan Wang
All day	4	Modification of Alkanolamides by Hyperbranched Polymer and Application in Fatliquoring	061	Xue-Chuan Wang
All day	1	Mathematical modeling in tanning research	063	Vera Radnaeva
All day	1	The physicochemical properties of collagen gel as the model for hide fiber cross-linked by glutaraldehyde	076	Zhenhua Tian
All day	4	Fabrication and Performance of Polyacrylate/Hollow ZnO Composite Emulsion for Leather Film-forming Agent	082	Yan Bao
All day	1	Effect of sodium chloride on structure of collagen fiber network in pickling and tanning	096	Xinxin Li
All day	1	Preparation and characterization of collagen/gelatin/bioglass composite	106	Xichan He
All day	4	Synthesis and application of Zinc Oxide (ZnO) nanoparticles for enhancing fastness properties of Cationic formulations in leather finishing	119	K. Ram Kumar



All day	4	Preservative effect of microbicides in leather	124	Juliana Tolfo da Fontoura
All day	4	Qualitative aspects of sheep hides tanned with Black Jurema and Red Angico	145	Alexandra Rocha de Oliveira
All day	4	New organic tanning sistem from renewable source; "wet wine from grape"	148	Marco Nogarole
All day	4	TiO2- SiO2-GLYMO nanocomposite prepared by sol-gel processing for leather finishing	168	Meruyert Koizhaiga- nova
All day	4	A new vegetable tanning material for leather industry: Acacia nilotica L.	169	ÇiğdemKılıçarislan Özkan
All day	1	Absorption and fixation of vegetable tannins by collagen	172	Franciela Spier
All day	4	Tanning study with chestnut tannin associated with acrylic resin	178	Patrice M. de Aquim
All day	1	Application of DFT calculations on the study of the tanning process with tetra-hydroxymethylphosphonium salt	179	Rafael L. Ortiz
All day	1	Fish Skins: Valuable Resources for Leather Industry	185	Arife Candaş Adıgüzel Zengin
All day	4	Green Fungicide Technologies	187	Dennis L. Dalton
All day	1	The role of surface properties in durability and comfort of finished leathers	192	Claudia Florio



26th November 2015, Thursday

Session IV

Chairmen: Michael Meyer & Carlos Wolf

TIME	HEADLINE	TITLE	NR	PRESENTER
08:30 - 09:00	Invited Speaker	Leather at Bentley: Re-defining luxury for the 21st century		Mark Stang
09:00 - 09:20	4	Oxidation stability of fat-liquors; preventing the formation of Cr (VI) on leather	143	Guido Batema
09:20 - 09:40	4	Synthesis and characterization of Hyper- branched Polyurethane finishing agent	058	Ting Chen
09:40 - 10:00	4	Hybrid tannage with cationic syntan and chrome	204	Eric Poles
10:00 - 10:20	4	Design and fabrication of Casein-based TiO2 Nanocomposite for self-cleaning leather finishes	026	Qunna Xu



Session V

Chairmen: Jean Pierre Gualino & Hugo Springer

TIME	HEADLINE	TITLE	NR	PRESENTER
10:50 - 11:10	4	A novel class of polymeric fatliquors	190	Giancarlo Lovato
11:10 - 11:30	4	Easy BlueTan – A chrome tanning evolution	159	Naim Miguel
11:30 - 11:50	2	Can there be a greener alternative to water for diffusion of auxiliary (generic) dispersions into chrome tanned leather?	059	Kalarical J. Sreeram
11:50 - 12:10	2	Decolorization studies of leather dyes by the native isolate Trametes sp. SC10	121	Santiago Ortiz

12:10 - 13:30	Lunch - FLAQTIC and IUT Commissions Meetings
12:10 - 13:30	Lunch - FLAQTIC and IUT Commissions Meeting

Session VI

Chairmen: Giancarlo Lovato & Swarna Kanth

TIME	HEADLINE	TITLE	NR	PRESENTER
13:30 - 13:50	2	Sustainable process in the production of Wet-Blue leathers	135	Rejane M. M. Paiva
13:50 - 14:10	2	Investigation of novel Deep Eutectic Systems for the reduction of water usage in leather manufacture	099	William Wise
14:10 - 14:30	2	Technological advances towards the use of bio-waste in dyeing of leather	066	Malathy Jawahar
14:30 - 14:50	2	Silica imprinted materials for selective adsorption of contaminants in tannery wastewater	167	Jaqueline Benvenuti
14:50 - 15:10	2	Definition of minimum acceptable environ- mental standards for the Environmental Commission of the IULTCS	155	Thierry Poncet
15:10 - 15:30	8	Importance of the relationship between softness and directionality of physical properties on leather for automotive upholstery	151	Patricia Casey

15:30 - 16:00

Session VII

Chairmen: Thomas Yu & Patrice Aquim

TIME	HEADLINE	TITLE	NR	PRESENTER
16:00 - 16:20	3	The challenges of biological nitrogen removal and reduction of sludge handling and disposal costs	126	Wolfram Scholz



16:20 - 16:40	3	Recovery of water for reuse from tannery wastewater and other advanced envi- ronmental protection measures – Asian scenario	036	S. Rajamani	
16:40 - 17:00	2	Steam explosion utilization as pre-treatment of chrome leather waste in order to produce biogas	043	Aline Dettmer	
17:30	Displacement to IST Couro				
18:00 - 19:30	Visit IST Couro and ABQTIC				
19:30 - 20:00	Assembly of ABQTIC				
20:30	Returning to the Official Hotels				

Visual Presentation 26th November 2015, Thursday 4th Floor

TIME	HEADLINE	TITLE	NR	PRESENTER
All day	2	Ink pattern from liquid waste of leather trim, intended for buildings and tarred roads	007	Janete Schneider
All day	2	Board- MDL generated from leather processing waste	009	Janete Schneider
All day	2	Evaluation of the use of rainwater and reuse of effluents in the chemical industry	011	Zolair Fritsch
All day	9	Carbon footprint of a tanning company in Turkey	027	Eylem Kılıç
All day	2	Gelatin extracted from chromed leather waste applied as raw material for polymeric film production	028	Bianca Santinon Scopel
All day	2	Reducing of pollution load in Chrome Tanning and Dying Process effluents by p(HEMA-GMA)-IDA Membrane Adsorption System	035	Safiye Meriç Açikel
All day	2	Application of Collagen Hydrolysate in Cereal Seed Treatment	072	Carmen Gaidau
All day	2	Application of a clean auxiliary for leather to obtain a low-salt pickling and less chrome tanning process	079	Lu Jia
All day	2	Inhibitory effect of protein filling agent from bovine hair on the oxidation of Cr(III)	094	Yue Yu
All day	2	Study of adsorption properties of anionic dyes on graphene oxide/chitosan composite porous microspheres	108	Xiaoxiao Li
All day	2	Creating economic values from black for black: A case for use of paper industry wastes in leather processing	117	Pandian Balasubra- manian
All day	4	Plant derived SaponinAescin as an antimicrobial soaking agent	085	Arife Candaş Adıgüzel Zengin
All day	2	Preparation and characterization of adsorbents using chrome shavings to remove Cr(III) ions from aqueous solutions	122	Yuling Tang



All day	2	Dye removal of tannery wastewater by adsorption in leather waste: the understanding of the phenomenon up optimization with real wastewater	153	Carolina S. Gomes
All day	2	Biogas production from tannery wastes – Evaluation of isolated microorganisms effect	158	Jayna Pessuto
All day	2	Study on Treatment and Utilization of Leather Industry Sludge and Solid Waste by Low Temperature Pyrolysis		Nhat Thien Nguyenc
All day	2	One step to prepare fatliquor from the extracted fat of cowhide fleshings for using in leather processing	162	Md. Abul Hashem
All day	2	Dye Adsorption with Tannery Solid Waste	163	Bianca Mella
All day	2	Tannery Wastewater Treatment with Scenedesmus sp.	165	Juliana Tolfo da Fontoura
All day	2	Characterization and evaluation of a fungal enzymatic pool with unhairing activity	176	Betina Galarza
All day	2	Evaluation of waste management in tanneries	180	Eliane Andrioli
All day	2	Ammonia removal from tannery waste leachate by process	181	Aldrim Vargas de Quadros
All day	2	Extraction of bovine hair keratin from unhairing waste of hides	188	Franck Souza
All day	9	Carbon Footprint of light leathers	193	Biagio Naviglio



27th November 2015, Friday

Session VIII

Chairmen: Ricardo Tournier & Marina Moreira

TIME	HEADLINE	TITLE	NR	PRESENTER
08:30 - 09:00	Invited Speaker	Sustainable tannery. The JBS Group Tannery case		Fernando Bellese
09:00 - 09:20	6	A new moisture Non-Contact Measurement application on leather	147	Sergio Alonso
09:20 - 09:40	6	Studies towards the influence of syntans on the assembly of collagen	111	Jochen Ammenn
09:40 - 10:00	6	Observation of penetration and reaction of acrylic resin retanning agent in leather using fluorescent tracer technique	093	Zeng Yunhang
10:00 - 10:20	6	Fatty materials as nutrient for fungal growth on wet blue leather	060	Marcelo Fraga



Session IX

Chairmen: Thierry Poncet & José Fernando Bello

TIME	HEADLINE	TITLE	NR	PRESENTER
10:50 - 11:10	6	Use of viscoelastic changes to demonstrate the relationship between drying parameters – a preliminary study	042	William Wise
11:10 - 11:30	6	False Positives I – Naphthylamines identification towards HPLC-DAD-MS analysis with ISO 17234-1 technique	071	Manila De Cicco
11:30 - 11:50	6	System expansion for environmental impact assessment in the leather industry – The leather product environmental footprint pilot project case	199	Federico Brugnoli
11:50 - 12:10	9	Best available techniques in leather tanning	086	Vicente Segarra

Session X

Chairmen: Christine Powley-William & Geoff Holmes

TIME	HEADLINE	TITLE	NR	PRESENTER
13:30 - 14:00	Invited Speaker	Brazilian Leather Sustainability Certification		Álvaro Flores
14:00 - 14:20	7	Assessment of occupational safety and health management in the leather sector in Kenya	200	Arthur S. Onyuka
14:20 - 14:40	7	Study and evaluation of occupational health, musculoskeletal disorder and safety among worker's in cutting section of leather goods manufacturing industries using REBA technique	195	Karthikeyan Kattaiya
14:40 - 15:00	7	Method development for determination of odors as an indicator of environment condition in tanneries surroundings	149	Lisiane Emilia G. Metz
15:00 - 15:20	7	Investigation of core dimensions on orga- nizational culture in Leather Research and Development Laboratory	069	Swarna V. Kanth



Session XI

Chairmen: Campbell Page & Roberto Kamelman

15:50 -16:00	Presentation of the IUE Commission
16:00 - 16:10	Presentation of the IUL Commission
16:10 - 16:20	Presentation of the IUC/IUF/IUP Commissions
16:20 - 16:30	Presentation of the IUR Commission
16:30 - 16:40	Presentation of the IUT Commission
14:40 - 16:50	Introducing the XI AICLST
16:50 - 17:00	Introducing the XXXV IULTCS Congress - VGCT
17:00 - 17:15	Introducing the XXXIV IULTCS Congress - ILTA
17:15 - 17:45	Closing ceremony
18:00	Returning to the Official Hotels
20:00	Departure from the Official Hotels to Closing/Gala Dinner
21:00	Closing/Gala Dinner at Gymnastics Society NH

Visual Presentation 27th November 2015, Friday 4th Floor

TIME	HEADLINE	TITLE	NR	PRESENTER
All day	6	Water based polymer nanoclays composite coating rheology for leather applications	001	Sellamuthu N. Jaisankar
All day	6	Influence of breed and age on goat leather quality	013	Manuel Antonio Chagas Jacinto
All day	3	The Degradation of Dyes by a New White-rot FungiCo-immobilized Microcapsule	021	Yanchun Li
All day	6	Microstructural Characterization of Looseness in Bovine Leather using Ultrasound	022	Hannah Wells
All day	4	A Novel Lubricant with Nano-silica Additives and Its Uses for Leather Performance Properties	033	Ayşe Erciyes
All day	7	Safety Information and Diagnostic Tools for Process Industry	037	Latha Anantharaman
All day	4	New Smart Materials for Leather Surface Functionalisation	046	Carmen Gaidau
All day	5	The effect of linear pressure of the pressure roller by using leather tanning machine on the properties of leather	050	Chengjie Yang



All day	7	Reduction of skin disorders with formaldehyde from leather product	053	Daisuke Murai
All day	6	Use of a Profilometer to Profile the Leather Surface	064	Karl Flowers
All day	6	Characterization of Natural Tanning Extracts by FTIR and Multivariate Analysis	067	Fábio dos Santos Grasel
All day	7	Inhibition of generation of hexavalent chromium for chrome-tanned leather with collagen peptide and radical scavenger	074	Koki Ogata
All day	6	Composition and Characterization of proanthocyanidins in Larch Extract tanning effluent	077	Bo Teng
All day	4	Highly efficient antimicrobial leather finishing agent based on casein/Fe doped ZnO nanocomposites: Preparation and enhanced antimicrobial activities	081	Aiping Hui
All day	7	Effect of pyrolysis of tannery sludge in nitrogen atmosphere on environmental risk of Cr in bottom ash	095	Jianfei Zhou
All day	6	Collagen/chitosan asymmetrical membranes pre- pared by dry/wet phase separation: a new wound dressing for controlled antibacterial releasing	104	Wenlong Li
All day	6	Optimization of degreasing process in cowhide	127	Mariana I Lorenzo
All day	3	Effect of DMPA Content on Properties of Different Segment Waterborne Polyurethane	129	Wenqi Wang
All day	7	Environmental diagnosis of Estância Velha city (RS leather region) based on analytical data of its micro-watershed	152	Horst Mitteregger Júnior
All day	6	Comparative analysis between Fogging Test and Gas Chromatography coupled with Mass Spectrometry to identify the main volatile organic compounds present in semi-finished leather for automotive upholstery	160	Lucas Zoldan
All day	3	Enzymatic dehairing of bovine hide by plant proteases	164	Carolina de Araújo Viana
All day	6	Detecting Looseness in cattle hides using NMR Relaxometry	189	Geoff Holmes
All day	4	The dark side of leather: finishing issues and light-dependent properties of pigments	191	Claudia Florio
All day	8	Importance of the application of design tools in the development of surfaces for leather collections	197	Gerusa Giacomolli
All day	3	Research on the Relationship between Environ- mental Cost and Economic Benefit in Tanning Enterprise	203	Junhua Feng