

SCIENTIFIC PROGRAMME

Tuesday, 07 May 2013

14.00-19.00 Registration
19.00-21.00 Welcome Party

Wednesday, 08 May 2013

08.00-09.00 Registration
09.00-09.30 **Opening Ceremony** – Star Auditorium
Chair: **András Víg**

Prof. András Víg IFATCC President, Hungary
Prof. Alessandro Gigli IFATCC Former President, Italy
Dr. Ágota Orbán Congress Secretary, Hungary
Rita Szabó Deputy Head of Department of Domestic Affairs,
National Innovation Office Hungary
Prof. Norbert Kroó Academician, Presidential Adviser,
Hungarian Academy of Sciences, Hungary
Dr. Pál Pataki President, Hungarian Society of Textile Technology
and Science, Hungary
Prof. Péter Szalay Vice President, Hungarian Chemical Society,
Hungary
Dr. Jan Marek IFATCC Next President, Czech Republic

Plenary Lectures – Star Auditorium
Chair: **András Víg**
09.30-10.00 **PL-01 Canal, J. M.**
Corona plasma surface effects on dyeing kinetics of acrylic fibre
under glass transition temperature

10.00-10.30 **PL-02 Perwuelz, A.**
Environmental comparison of chemical, ecotechnological and
biotechnical textile wet treatments

10.30-11.00 Coffee Break
Chair: **Ágota Orbán**

11.00-11.30 **PL-03 Marek, J.**
BIOTEX –An integrated multidisciplinary program of research and
implementation of cleaner production eco-design based textile
sustainability

11.30-12.00 **PL-04 Schatz, G.**
Clariant's 4E concept and ONE WAY selector – A contribution to
sustainability

12.00-12.30 **PL-05 Hanel, J.**
Matex Eco Applicator, Eco Aspects and Creative Potential

12.30-14.00	Lunch
14.00-15.30	Poster Session – Jazmin I Room
16.00-23.30	Excursion to Visegrad and Gala Dinner

Thursday, 09 May 2013

08.00-08.30	Registration Plenary Lectures – Star Auditorium Chair: Giuseppe Rosace
08.30-09.00	PL-06 Diekmann, J. OEKO-Tex® STeP Sustainable Textile Production
09.00-09.30	PL-07 Hirschler, R. Whiteness determination of optically brightened textiles
09.30-10.00	PL-08 Textor, T. Employing ionic liquids for preparation of PET fibres with cotton-like surfaces
10.00-10.30	PL-09 Kiekens, P. 2BFUNTEX: Transfer of research innovation on functional textiles towards industry
10.30-11.00	Coffee Break Chair: Judit Borsa
11.00-11.30	PL-10 Bereck, A. Evaluation of handle of textile fabrics
11.30-12.00	PL-11 Krichevsky, G. E. New depot-materials of directional action based on textile and polymer materials for oncology
12.00-12.30	PL-12 Gedanken, A. The sonochemical coating of textiles with antibacterial nanoparticles
12.30-14.00	Lunch Session I. – Star Auditorium Chair: Aharon Gedanken
14.00-14.20	O-01 Perelstein, I. Simultaneous deposition of chitosan and ZnO NP's on textiles via one-step sonochemical reaction
14.20-14.40	O-02 Petkova, P. Simultaneous sonochemical-enzymatic coating of textiles with antimicrobial nanoparticles

14.40-15.00	O-03 Perucca, M. Environmental and economic sustainability of novel enhanced antibacterial nanotechnology finishing based on ultrasound processes
15.00-15.20	O-04 Radulescu, C. Some considerations regarding the structural and microbiological characterization of nanotextiles for medical usewear behaviour of scoured, dyed and finished polylactide/wool and polyester/wool fabrics
	Session II. – Jazmin II Room Chair: Ermanno Barni
14.00-14.20	O-05 Nagy, H. J. Photoinitiated reactions of methyl orange in the presence of complex forming compounds
14.20-14.40	O-06 De Clerck, K. Halochromic textile materials as innovative pH-sensors
14.40-15.00	O-07 Stanescu, M.D. Immobilized laccase for waste water dye degradation
15.00-15.20	O-08 Tonetti, C. Horn-hoof powder as biosorbent to remove copper(II) ions from aqueous solutions
	Session III. – Magnolia Room Chair: Paul Kiekens
14.00-14.20	O-09 Sampaio, S. Nanopigments of silica on the dyeing of wool fibres
14.20-14.40	O-10 Migliavacca, G. Wool fabrics dyeing with metal-complex dyes after UV irradiation
14.40-15.00	O-11 Siroky, J. Environmentally friendly antifelt treatment of wool
15.00-15.20	O-12 Carrion-Fite, F.J. The effect of the non-toxic solvent microemulsion for the wool washing
15.20-15.50	Coffee Break Session I. – Star Auditorium Chair: Aharon Gedanken
15.50-16.10	O-13 Blanes, M. Antibacterial efficiency of the sonochemical coating with CuO nanoparticles, produced in situ, versus CuO nanoparticles from throwing stones method
16.10-16.30	O-14 Ozcan, G. Ultrasonic washing process after reactive printing
16.30-16.50	O-15 Szabó, O. The effect of low-frequency ultrasound on the activity and efficiency of a hydrolytic enzyme
16.50-17.10	O-16 Bonet, M. A. Fabrics to protect people from malaria and dengue

	Session II. – Jazmin II Room Chair: Torsten Textor
15.50-16.10	O-17 Kornilova, N. Technology of making reinforced interlining materials for garments manufacture
16.10-16.30	O-18 Martinkova, L. Vegetal squalene: a new bio-based nutritional side product as a source for the functional well being textiles
16.30-16.50	O-19 Gursoy, N. C. Investigating hydrogen peroxide bleaching using a cationic bleach activator for cotton knitted fabrics
16.50-17.10	O-20 Alongi, J. SOL-GEL treatments for enhancing flame retardancy of cotton: state of art and perspectives
	Session III. – Magnolia Room Chair: Gerald Schatz
15.50-16.10	O-21 Manich, A. M. Wear behaviour of scoured, dyed and finished polylactide/wool and polyester/wool fabrics
16.10-16.30	O-22 Tajitsu, Y. Development of new piezoelectric element using piezoelectric fiber made from environmentally friendly polymer
16.30-16.50	O-23 Okubayashi, S. An application of electron –beam crosslinking to KEVLAR Fiber/PP composite
16.50-17.10	O-24 Szabó, R.-Szabó, L. New textile technologies, challenges and solutions
17.10-18.40	Poster Session – Jazmin I Room
20.00-21.30	Organ Concert at the St. Anna Church

Friday, 10 May 2013

08.00-08.30	Registration
	Plenary Lectures – Star Auditorium Chair: Robert Hirschler
08.30-09.00	PL-13 Carosio, F. Textile flame retardancy through layer by layer assembled nanoarchitectures
09.00-09.30	PL-14 Rosace, G. Synthesis and characterization of hybrid phosphorus-silica films for halogen-free flame retardant cotton fabrics

09.30-10.00	PL-15 Menczel, J. Use of thermal analysis for characterization of synthetic fibers
10.00-10.30	Coffee Break Chair: Jan Marek
10.30-11.00	PL-16 Hori, T. Preparation of high efficient metal-ion absorbable non-woven fabrics using electron beam grafting
11.00-11.30	PL-17 Borsa, J. Functionalization of cellulosic fibres by high energy irradiation
11.30-13.00	Lunch Session I. – Star Auditorium Chair: János Gombkötő
13.00-13.20	O-25 Minch, R. Is it important to know the surface free energy of textiles? Methods to characterize the textile surface for different treatments like printing, dyeing
13.20-13.40	O-26 Csiszár, E. Analysis of surface and bulk properties of fibrous and ground cellulosic fibres
13.40-14.00	O-27 Mossotti, R. Study on the grafting and release of menthol to improve elastic compression stockings comfort Session II. – Jazmin II Room Chair: J.M. Canal
13.00-13.20	O-28 Bocz, K. Flame retardancy of natural fiber reinforced fully biodegradable composites
13.20-13.40	O-29 Hrdina, R. New medical fibres
13.40-14.00	O-30 De Smet, D. Application of biobased and biodegradable materials in textile coating and finishing Session III. – Magnolia Room Chair: Attila Bereck
13.00-13.20	O-31 Gamper, C. The future of textile printing and the role of Durst in digitalisation of industrial decoration
13.20-13.40	O-32 Mann, K. Design for sustainability
13.40-14.00	O-33 Korger, M. Digital textile printing using solid ink technology

14.00-14.30	Coffee Break Session I. – Star Auditorium Chair: Jürgen Hanel
14.30-14.50	O-34 Määttänen, M. From recycled fibers to textiles
14.50-15.10	O-35 Janícková, M. Development of new agrotextiles from renewable sources and with controlled lifetime
15.10-15.30	O-36 Montarsolo, A. Hemp fibers surface treatments for the development of biocomposites and composites reinforcing agents Session II. – Jazmin II Room Chair: Hori Teuro
14.30-14.50	O-37 Colleoni, C. Low temperature synthesis of titania film for self-cleaning applications
14.50-15.10	O-38 Migani, V. Effects of a multi-step sol-gel process of inorganic silica coatings on cotton fabrics
15.10-15.30	O-39 Grethe, T. Nano-clay coatings on textiles for adsorption of xenobiotics Session III. – Magnolia Room Chair: Attila Bereck
14.30-14.50	O-40 Oproiu, L .C. Water based inkjets inks for textile printing
15.30-16.30	Awards and Closing Ceremony – Star Auditorium Best Young Textile Chemist Award Best Poster Awards XXIV IFATCC Congress Preview – Jan Marek, Next President of IFATCC

Poster Presentations

- P-01 Actis Grande, G.**
Comparative ozone decolouration in bubble column and in ejector mixer units
- P-02 Bíró, E.**
Preparation of coloured silicone polymers and their application onto cotton fabrics
- P-03 Bonet, M. A.**
Behaviour of cotton treated with polycarboxylic acids and cured by ironing
- P-04 Boruvková, K.**
Preparation and properties of microporous structures based on CMC modified by silver nanoparticles
- P-05 Burinskaya, A. A.**
Receiving textile materials with bactericidal properties
- P-06 Burkitbay, A.**
Application of dressing composition for antimicrobial finishing of cellulosic textile materials.
- P-07 Camilli, F.**
The role of dyes extracts from plants in protecting natural fabrics
- P-08 Cerny, M.**
Reduction of the Vat dyes based on Anthraquinone type
- P-09 Colonna, G.M.**
Growing of zinc oxide nanoparticles on silk fabric
- P-10 Coman, D.**
A novel approach regarding ecodyeing textile materials with natural extracts
- P-11 Coman, D.**
Functionalization of a bamboo knitted fabric using air-plasma treatment for the improvement microcapsules embedding
- P-12 Csiszár, E.**
Surface properties and residual chromophore content of differently pretreated linen fabrics
- P-13 Diankova, T.**
Mechanisms of finishing composition fixation by aramid fiber
- P-14 Díaz García, P.**
Microcapsules application on pile articles
- P-15 Díaz García, P.**
Validation of a new method for determining the ultraviolet protection factor
- P-16 Eren, H. A.**
Reuse of disperse dyeing bath subsequent to ozonation
- P-17 Giansetti, M.**
Evaluation of actual dyestuff penetration in ultrasonic-assisted wool dyeing

- P-18 Guido, E.**
Textile-based wearable sensor for sweat pH monitoring
- P-19 Hajdu, L. S.**
Computer aided pattern design for printed drapery
- P-20 Hirogaki, K.**
Preparation of electro-conductive fiber by metal composition using supercritical carbone dioxide fluid
- P-21 Jancsó, E.**
NanoMOF – nanoporous metal-organic-frameworks for production
- P-22 Jurecska, L.**
Methods for determining cyclodextrin content of modified textiles
- P-23 Juvancz, Z.**
Role of capillary electroforesis in textile industry
- P-24 Khlystova, T. S.**
New medical and cosmetic materials "Coletex" and "Texal" on a textile base for physiotherapy, dermatology and cosmetology
- P-25 Koksharov, S.**
Nanostructural biochemical modification of linen textile materials
- P-26 Koksharov, S.**
Improvement of coarse fiber with the use of biocatalysts
- P-27 Kornilova, N.**
Analysis of methods of the transmission properties of textile materials in cad clothes
- P-28 Krištofiková, L.**
The biodegradable self-sequestering agents
- P-29 Kutzhanova, A.**
The influence of parameters of sublimation printing on fabric on quality of coloring.
- P-30 Kutzhanova, A.**
Chemical intensification of dyeing process by the acid dyes of woolen fiber
- P-31 Manich, A. M.**
Water sorption isotherms and drying kinetics of scoured, dyed and finished polylactide/wool and polyester/wool fabrics compared with those of wool and cellulosic fibres
- P-32 Marti, M.**
Biofunctional textiles with PLC-microspheres containing an antioxidant
- P-33 Marti, M.**
Wool Dry Scouring
- P-34 Migliavacca, G.**
Wool fabric dyeing with acid dye after UV irradiation

- P-35 Monllor-Pérez, P.**
XPS analysis as a method to evaluate microcapsules with melaminformaline shell on cellulosic fibers
- P-36 Monllor-Pérez, P.**
Reuse in diverse exhaust dyeing procedures of textile wastewater after a solar photo-Fenton treatment
- P-37 Nagy, E.**
Biodegradable polyesters as shell materials with antibacterial and wound healing activities
- P-38 Navarro Santanes, A.**
Network of plasma in polymer materials
- P-39 Navarro Santanes, A.**
Polyester fabrics wetting
- P-40 Oproiu, L. C.**
A new procedure for achieving a bio-textile surface with anti allergy properties
- P-41 Orlandin, A.**
Antibacterial alfa-peptides and dendrimers covalently bound to textiles
- P-42 Perelshtein, I.**
Coating antibacterial nanoparticles on textiles: towards the future hospital in which all the textiles will be antibacterial
- P-43 Perkas, N.**
Self-cleaning and antimicrobial finishing of textiles with TiO₂ nanoparticles by sonochemistry
- P-44 Radulescu, I. R.**
Textile terms for professionals in business and trade
- P-45 Sallay, P.**
Elaboration of environment friendly reactive dyeing procedures by means of computer aided simulation
- P-46 Sirbiladze, K.**
The synthesis of vinilsulphonic reactive dyes and the research of their photochemical features
- P-47 Surdu, L.**
Fabrics for barrier surgical gowns finished by plasma nanotechnology
- P-48 Szabó, O.**
Application of nonthermal atmospheric plasma for surface modification of cellulosic fibres
- P-49 Trapeznikov, A.**
Antimicrobial and antifungal finishing of cotton materials
- P-50 Valueva, M. I.**
Development and receipt of technology of textile with radiomodifiers for radiation therapy

- P-51 Visileanu, E.**
Medical devices from advanced textile materials
- P-52 Walawska, A.**
Use of vapourised hydrogen peroxide for cotton textiles bleaching

European textile chemical educational activity

- P-53 Bonet, M. A.**
Textile chemical studies at the Spanish university Universitat Politecnica de Valencia
- P-54 Filarowski, A. J.**
Technical Education in the UK - Challenges, Requirements and Solutions
- P-55 Fogorasi, M. S.**
Current state of textile chemical education in Romania
- P-56 Kiekens, P.**
European Masters Programme in Textile Engineering
- P-57 Kokas Palicska, L.**
Experiments on textile printing
- P-58 Krichevsky, G. E.**
Interdisciplinary, humanization, accessibility, remotability of high education in chemical-technological and textile-chemical field
- P-59 Lukesova, M.**
Centre for technology and Knowledge Transfer at the University of Pardubice
- P-60 Orbán, Á.**
Reproduction of a coloured sample by means of tri-chromatic dyeing method in student laboratory
- P-61 Pezzin, A.**
Textile educational activity at Politecnico di Torino
- P-62 Schrott, W.**
InnoTex - The future of innovative textile education
- P-63 R. Peila**
Washing intensification by ultrasounds