

the fiber society

for the advancement of scientific knowledge
pertaining to fibers, fiber based products, and fibrous materials



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Spring 2000 Meeting Program Guimaraes, Portugal, May 17-19, 2000

PROGRAM

WEDNESDAY: MAY 17, 2000

Chair for the day: M. Renner

8:00 a.m. - Registration

8:45 a.m. - Opening remarks

Prof. Chainho Pereira, Rector, University of Minho
Dr. Prashant Desai, President, Fiber Society
Dr. Fernando Nunes Ferreira, Conference Chairman

9:00 a.m. - SESSION I: FIBER PROPERTIES

Session Chair: J.Y. Drean

9:00 - 9:30 - Seat coat neps: their assessment methods and changes during processing

M. Matusiak, I. Frydrych, IAT Lodz - Poland
E. Hequet ITC Lubbock - USA

9:30 - 10:00 - Filament breakage in false twist texturing process

H.C. Karakas, H. Dayiodlu, Istanbul Tech. Univ. - Turkey

10:00 - 10:30 - Comparative study of the thermal and fire behaviour of PBO and PPT fibers

S. Bourbigot, X. Flambard, Gemtex, Roubaix - France
F. Poutch, Crepim, Bruay - France

S. Duquesne, Gepifrem, Lille, France

10:30 - 11:00 a.m. COFFEE BREAK

11:00 - 11:30 - **Color quality of row cotton fiber**

H. H. Hepps, Univ. of Georgia, Athens - USA

11:30 - 12:00 - **Surface wetting properties of cellulosic fibers**

B.S. Gupta, H.S. Whang, Ncsu, Raleigh - USA

12:00 - 12:30 - **Tensile deformation and fracture in viscose yarns at high strain rates**

F. A. Marques, J.Y. Drean, J.M. Freyburger, ENSITM, Mulhouse - France

M.E. Cabeço Silva, A. A. Cabeço Silva, Univ. Minho, Guimarães - Portugal

0:30 - 1:50 p.m. LUNCH

1:55 p.m. - SESSION II: NON WOVENS

Session Chair: M. Araújo

1:55 - 2:25 - **Instrumental analysis of synthetic fiber quantity and distribution in non woven material**

D. Robson, P.J. Brown, S.R.B. Mac Loed Heriot-Watt Univ. - UK

2:25 - 2:55 - **Automatic control of fiber webs for non woven applications**

M. F. Nunes, N. R. Belino, M.J. Pereira, Univ. Beira Interior, Covilhã - Portugal

M.E. Cabeço Silva, Univ. Minho, Guimarães - Portugal

2:55 - 3:25 - **Relationship between structure and absorption properties of non woven fabrics**

R. Salvado, M.J.T. Pereira, J. Silvy, Univ. Beira Interior, Covilhã - Portugal

J.Y. Drean, ENSITM, Mulhouse - France

U. Olofsson, Sca Research Ab. Goteborg - Sweden

3:25 - 3:55 - **Experimental study and modelling of flow through geotextiles**

M.A. Saidi, D.C. Adolphe, T. Voyat, ENSITM, Mulhouse - France

3:55 - 4:15 p.m. COFFEE BREAK

4:15 - 4:45 - Developing unique fabric properties by introducing thermobounding amorphous PET fibers in blends

S. Ghosh, L. Villarreal, ITT, Charlottesville - USA

4:45 - 5:15 - Composites, laminates and honeycomb structures from fibrous wastes and high modulus adhesives

A. Koltiar, Georgia Tech, Atlanta - USA

EVENING

Tour of the town, Dinner on your own, Concert

THURSDAY: MAY 18, 2000

Chair for the day: S.K. Batra

8:00 a.m. - SESSION III: RECYCLING

Session Chair: A.A. Cabeço Silva

8:00 - 8:30 - Novel textiles for drainage purposes, reinforcement of embankments and environment protection

M.I. Seeger, R.H. Arnold, E.G. Hufnagl, H.W. Fuchs, Stfi Chemnitz - Germany

8:30 - 9:00 - Yarn production from recycled PET' s bottles

R. Radillo, F. Maldonado, Inst. Polytech. Nacional, Mexico - Mexico

G. Noriega, Grupo Cricol S.A. de C.V. Mexico - Mexico

9:00 - 9:30 - Reusable textile materials - raw material resources for ordinary and non conventional textiles

E. Carpus, Nat. R-R Textiles & Leather, Bucharest - Romania

C. Preda, Tech. Univ. Iasi - Romania

9:30 - 10:00 - Modelling colorimetric behaviour of cotton fiber blends

B. Philips Invernizzi, Gemtex, Estit, Villeneuve d'Asq - France

C. Cazé, Gemtex, Ensait, Roubaix - France

10:00 - 10:20 a.m. COFFEE BREAK

10:20 - 10:50 - The rejection of anionic dyes and salt in water solutions using a

polypropylene microfilter

J.J. Porter, Clemson Univ., Clemson - USA
A. Gomes, Univ. Beira Interior, Covilhã - Portugal

10:50 - 11:20 - Utilization of recycled fiber waste for soil stabilization

Y. Wang, J.D. Frost, J. Murray, Georgia Tech. Atlanta - USA

11:20 - 11:50 - Catalases enzymes as tools for recycling bleaching waters for dyeing

A. Cavaco-Paulo, S. Costa, T. Tzanov, Univ. Minho, Guimarães - Portugal
A. Parr, M. Gudelj, G. Gubtiz, T.U. Graz - Austria

11:50 - 12:20 - Life Cycle Assessment of a cotton fabric in textile finishing

M. Tobler Rohr, ETH, Zurich - Switzerland

0:30 - 1:30 p.m. LUNCH

1:45 p.m. - SESSION IV: DYEING & FINISHING

Session Chair: M.F. Nunes

1:45 - 2:15 - Non conventional catalysis in PET finishing

M.D. Stanescu, S. Mihuta, I. Noel, Univ. Polytech., Bucharest - Romania

2:15 - 2:45 - Hydrophilization mechanisms of cotton fibers after corona discharge

N. Carneiro, A.P. Souto, A. Marimba, Univ. Minho, Guimarães - Portugal
A.P. Marques, C. Leal, H.D. Burrows, Univ. Coimbra, Coimbra - Portugal

2:45 - 3:15 - Unresolved questions in textile coloration II

J.R. Aspland, Univ. Clemson - USA

3:15 - 3:45 - The influence of pigments on the process runnability and the properties of PP fibers

K. Van De Velde, W. Verlinde, P. Kiekens, Univ. Ghent - Belgium

3:45 - 4:15 - Oxidative clearing of PET as a cleaner alternative to reduction clear

J. I. N. Rocha Gomes, C. J. E. Lima, J. Almeida, Univ. Minho, Guimarães - Portugal

4:15 - 4:45 - Objective evaluation of surface appearance loss of abraded worsted fabrics using colorimetric techniques

J.M. Lucas, R.A.L. Miguel, Univ. Beira Interior, Covilhã - Portugal

4:45 - 6:00 p.m. - SESSION V: POSTERS

Session Chair: N. Carneiro

- Seaming techniques for technical textiles and the performance of ultrasonic bonding

F. Kalaoglu, Istanbul Technical University, Istanbul - Turkey

- Frictorq, fabric friction tester based on torque evaluation

M. Lima, L. Hes, R. Vasconcelos, J. Martins, Univ. Minho, Guimarães - Portugal

- Dimensional theory used in fabric quality evaluation

A. Dorogan, M. Stan Univ. Polytechn., Bucharest - Romania

- The physical properties and processing conditions of PET composites filament yarns

S.J. Kim, J.G. Lee, T.H. Kim, Yeungnam Univ.- Korea

S.K. Yoon, Dong Jin Synth. Ltd. Taegu - Korea

- Needlepunched non woven blankets from naturally coloured brown cotton

L. Kimmel, W. Tao, V. Yachmenev, T. Kalamari, Usda, New Orleans - USA

- New technologies in the textile industry. Implementation Methodology: A few aspects of theory and practice.

J. Carvalho, N.J.R. Belino, Univ. Beira Interior, Covilhã - Portugal

- Fibers for facing sharp and pointed weapons

X. Flambard, Gemtex, Roubaix - France

- Experimental analysis of thermal comfort on functional knits in the wet state

M.J. Geraldès, Univ. Beira Interior, Covilhã - Portugal

M.D. Araujo, Univ. Minho, Guimarães - Portugal

L. Hes, Univ. Liberec - Check Republic

- Cotton contamination

I. Frydrych, M. Matusiak, IAT Lodz - Poland

- Cotton contamination by seed coat fragments

Frydrych, Cirad, Montpellier - France

- Cotton contamination by honeydew

Gourlot, Cirad, Montpellier - France

- Evaluation of textile properties of Tunisian Agave Americana L. fibers

S. Msahli, F. Sakli, ISET, Ksar Hellal - Tunisia

JY. Drean, ENSITM, Mulhouse - France

- Physical and chemical properties of raw cotton

M.T.P. de Amorim, R. M. Vasconcelos, F.S. Lucas, Univ. Minho, Guimarães - Portugal

- Reuse of dyehouse wastewater for identical reuse

M. Arami, Amirkabir Univ. of Technology, Tehran - Iran

M. Karimi, Isfahan Univ. of Technology, Isfahan - Iran

- Recycling of textiles used in the operating theatre: Life cycle of the product - Disposable vs. Reusable

M.J. Araujo Marques, M. E. Cabeço Silva, Univ. Minho, Guimarães - Portugal

L. Schacher, D. Adolphe, ENSITM, Mulhouse - France

- Computer simulation of needled non woven mechanical behaviour

B. Maze, D. Adolphe, J.Y. Drean, ENSITM, Mulhouse - France

- 3-D structure characterisation of non woven fabrics by means of optical methods

M.J.T. Pereira, R. Salvado, J. Silvy, P.T. Fiadeiro, Univ. Beira Interior, Covilhã - Portugal

- Carbonising of polyester / wool blends. Effect of sulphuric acid and time of burning on fiber properties

J.M. Fiadeiro, I.C. Gouveia, Univ. Beira Interior, Covilhã - Portugal

- Sulphur dyes: a contribution to a new approach on the quantitative determination

M.F. Esteves, M.T.P. de Amorim, Univ. Minho, Guimarães - Portugal

- Microcapsules of phase change materials for thermal insulation of textiles

J.I.N.R. Gomes, C.J.E. Lima, Univ. Minho, Guimarães - Portugal

7:30 p.m. RECEPTION / BANQUET

FRIDAY: MAY 17, 2000

Chair for the day: M.E. Cabeço Silva

8:15 a.m. - SESSION VI: GENERAL ASPECTS

Session Chair: R. Dent

8:15 - 8:45 - A study on seam parameters evaluation

M. A. Carvalho, F. Ferreira, Univ. Minho, Guimarães - Portugal

8:45 - 9:15 - Stretch wool fabrics

J.M. Fiadeiro, L.G. Roldan, C.V. Stevens, Univ. Beira Interior, Covilhã - Portugal

9:15 - 9:45 - Advancements in weft knitting science and technology towards sustainability and growth

M. Araujo, R. Figueiro, A. Catarino, H. Hong, Univ. Minho, Guimarães - Portugal

9:45 - 10:15 - Theoretical model and experimental verification of tensile properties of staple yarns

M. Cybulska, B.C. Goswami, Univ. Clemson - USA

10:15 - 10:35 a.m. COFFEE BREAK

10:35 - 11:05 - The effects of yarn structures on fabric antistatic performances

H. Gong, UMIST, Manchester - UK

11:05 - 11:35 - Modelling and optimisation of a high drafting system

M. Ben Hassen, F Sakli, ISET, Ksar Hellal -Tunisia
A. Sinoimeri, M. Renner, ENSITM, Mulhouse - France

11:35 - 12:05 - Practical application of the theory of drafting by bundles in cotton process

M. Cheikrouhou, A.B. Dhouib, ISET, Ksar Hellal - Tunisia
A. Kirschner, ENSITM, Mulhouse - France

12:05 - 12:35 - Grip point spacing along the edges of an anisotropic fabric sheet in biaxial tensile test and the stress distributions

R. J. Bassett, R. Postle, Univ. New South Wales, Sydney - Australia
N. Pan, Univ. California, Davis - USA

0:35 - 2:00 p.m. LUNCH

2:00 p.m. - SESSION VII: PANEL DISCUSSION

Session Chair: B. Pourdeyhimi

2:00 - 2:30 - Recycling Information in textile science and technology: the way to develop knowledge for the 21st century in cotton spinning.

A.A. Cabeço Silva, M. E. Cabeço Silva, Univ. Minho, Guimarães - Portugal

2:30 - 3:00 - Process model for complex sustainable production systems based on structured analysis

A. Weber Marin, ETH Zurich - Switzerland

3:00 - 3:30 - Sustainability educating workforce of tomorrow

H.D. Rowe, Manchester Metropolitan Univ., Manchester - UK

3:30 - 4:00 - Structural and Probabilistic Modelling in Textiles

M.W. Suh, NC State University, Raleigh, NC - USA

4:00 - 4:30 p.m. DISCUSSION

4:30 p.m. ADJOURN

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