

# **THE FIBER SOCIETY**

**SPRING - 1999**

**SYMPOSIUM ON**

**TEXTILE & POLYMER BASED BIOMATERIALS**

**May 3 - 4, 1999**

**Sponsored by:**

**Philadelphia College of Textiles & Science**

***HOLIDAY INN***

***100 Presidential Blvd.  
Philadelphia, PA 19131***

**Monday, May 3, 1999**

**8:30 am REGISTRATION**

**9:15 am OPENING REMARKS**

*Mary M. Toney, President*

*David Brookstein, Conference Chair*

**10:00 AM SESSION I:**

*Behnam Pourdeyhimi,*

*Session Chair*

**ARTIFICIAL AND NATURAL RESORBABLE FIBERS IN MEDICINE** *M. Bootman (Albany, Int'l)*

**ABSORBABLE POLYMERS AS SURGICAL SUTURE MATERIALS- PART I: ROLE OF CHEMICAL STRUCTURE**

*D. Jamiolkowski & J. Zi*  
(Ethicon, Inc. A J & J Compa

**ABSORBABLE POLYMERS AS SURGICAL SUTURE MATERIALS - PART II: ROLE OF MORPHOLOGICAL STRUCTURE**

*J. Zhou & D. Jamiolkow*  
(Ethicon, Inc., A J & J Compa

**NEW METHOD TO PREDICT THE USEFUL LIFETIME OF BIODEGRADABLE SUTURES:  
AN IN VITRO STUDY**

*A. Niroomand, B. Pourdeyh*  
(Ethicon/Georgia Inst. of Te

**10:50 AM BREAK**

**COMBINING ENERGY FROM A CO<sub>2</sub> LASER WITH MECHANICAL INTERLACING FOR  
IMPROVING KNOT PERFORMANCE IN SUTURES**

*B. Gupta, N. Penef*

(College of Textiles, NC State Uni  
*E. Stc*

( College of Veterinary Medicine, NC State Ur

**LOW TEMPERATURE HYDROGEN PEROXIDE GAS PLASMA STERILIZATION  
COMPATIBILITY WITH POLYMERIC MATERIALS**

*D. Timm*

(Advanced Sterilization Products, Div. Of Ethic

**1:00 PM SESSION II:**

*Dr. Michael Jaffe*

*Session Chair*

**ENDOVASCULAR TREATMENT OF ANEURYSMS: THE ROLE OF TEXTILES**

*K. Barkman (Guidant Cor*

**EVOLUTION OF POLYESTER DEGRADATION FOR VASCULAR PROSTHESIS DURING  
DIFFERENT STAGES OF FABRICATION**

*F. Dieval, L. Wang, N. Chakfe, J. Kre*

*emagnen, B. Durand (Ecole Nationale Superieure des Industries Textiles de Mulhouse, France)*

**INFLUENCE OF MECHANICAL LAW BEHAVIOR OF VASCULAR PROSTHESIS FOR ITS  
PLANTATION**

*B.Durand, J. Lemagn*  
*Dieval, L.Wang, N.Chakfe, J.G.Kretz* (Ecole Nationale Supérieure des industries Textiles de Mulhouse,  
France)

30 PM BREAK

ANALYSIS OF ELASTIC DEFORMATION OF BRAIDED TUBULAR STRUCTURES FOR  
MEDICAL APPLICATIONS

*F.Yuksekkaya* (College of Textiles, NC Sta

PERMEABILITY MODELING & EVALUATION OF VASCULAR GRAFTS *M. Dunn, M.Garfini*  
(Philadelphia College of Textiles & Scien

FIBER ASSEMBLIES AS SCAFFOLDS FOR CONNECTIVE TISSUE REGENERATION

*M.Dunn, e*

iv. Orthopedics at Univ of Medicine & Dentistry - NJ)

MODULATING THE PROPERTIES OF BIOABSORBABLE FIBERS *S.Shalaby, J.Allan,*  
*M.Deng, J.Wrana* (Poly-Med, Inc., Anderson, S

30 PM COCKTAIL RECEPTION

45 PM DINNER

esday, May 4, 1999

*. Chris Pastore, Conf. Co-Chair*

10 AM SESSION III:

*. Martin King Session Chair*

**THE WALLGRAFT® ENDOVASCULAR PROSTHESIS**

*C.Hebert (Boston Scientific, Plymouth, M*

**THE DEVELOPMENT OF POLYPYRROLE-COATED POLYESTER FABRICS FOR BIOMATERIALS APPLICATIONS**

*Z.Zhang, D.Tessier, L.Dao, M.Ki  
R.Guidoin (Laval Univ., Queb*

**GRANULATION TISSUE FORMATION ASSOCIATED WITH BIOMATERIALS**

*T.Howdieschell (Medical College of C*

1:30 AM BREAK

**THE NEUROTUBE™ 21<sup>st</sup> CENTURY NERVE RECONSTRUCTION**

*J.Barham*

*(Neuroregen L.LCV. Bel Air, M*

**FIBER SPINNING FOR MEDICAL DEVICE APPLICATIONS**

*M.Jaffe, J.Pickton*

*(NJ Center for Biomaterials & Medical Devic  
Rutgers Universi*

**ENGINEERED TEXTILE STRUCTURES FOR LIQUID CHEMICAL PROTECTION**

*A.Geshury, F.Scardino, F.  
(Drexel Universi*

**PROPERTY MODELING OF SURGICAL PROTECTIVE CLOTHING- O.R. GARMENTS: A DATA MINING APPROACH**

*M.Araujo-Marques, M.Cabeco-Silva, A-Cabeco-Si  
(Universidade do Minho - Portug*

10 PM SESSION IV:

*. Mary M. Toney Session Chair*

**PROBING HAIR DAMAGE AND ITS ALLEVIATION BY TENSILE FATIGUE MEASUREMENT:**

*Y..Kamath (TRI/Princet*

**SWELLING BEHAVIOR OF HUMAN HAIR**

*S.Ruetsch, Y.Kamath, H.Weigmann (Tri/Princeton)*

**STRUCTURE-ACTIVITY RELATIONSHIP IN AZO DYES**

*L.Sztandera, C.Bock, M.Trachtman, J.Ve  
(Philadelphia College of Textiles & Sciences)*

**3:30 PM BREAK**

**EFFECT OF HEAT SETTING ON MICROSTRUCTURE DEVELOPMENT OF POLYAMIDE  
FIBERS, CHARACTERIZED BY FTIR SPECTROSCOPY**

*N.Vasanthan, D.Salem (TRI/Princeton)*

**STUDY OF CYANATE ESTER RESINS FOR AIRCRAFT CABIN INTERIORS**

*S.Gandhi (Galaxy Scientific)*

**PRODUCTION, CHARACTERIZATION, AND MODELING OF MINERAL FILLED  
POLYPROPYLENE FILAMENTS**

*B.George (Philadelphia College of Textiles & Sciences)*

**5:15 PM ADJOURN**

**FOR ADDITIONAL INFORMATION  
about any aspect of the Spring '99  
Conference, contact:**

**Dr. David Brookstein, Chair  
*brooksteind@philacol.edu***

**or**

**Dr. Chris Pastore, Co-Chair  
*cpastore@fibers.texsci.edu***

**Philadelphia College  
of  
Textiles & Science**

**Henry Avenue & Schoolhouse Lane  
Philadelphia, PA 19114  
Fax: 1- 215 - 951 - 2651**

**FUTURE FIBER SOCIETY MEETINGS:**

**1999 - Annual Conference**

**October 20 - 22, 1999**

**MADREN CENTER  
Clemson University**

**Contact: Bhuvanesh C. Goswami**

***GBHUVEN@CLEMSON.EDU***

**Phone: (864) 656-5957**

**Fax: (864) 656-5973**

**Spring - 2000**

**Jointly With**

**Universidade Do Minho  
Departamento De Engenharia Textil**

**Contact: Prof. M. Teresa Amorim**

***AMROCHA@ENG.UMINHO.PT***

**Fall - 2000**

**Annual Conference**

**Place and Date to be Announced  
(Sponsor: Georgia Tech. Institute)**

## THE FIBER SOCIETY

ry M. Toney      *President*

ston Sasser      *Vice President*

ivenesh C. Goswami      *Secretary/Treasurer*

## **THE FIBER SOCIETY**

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