

# the fiber society

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



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## Spring 1995 Meeting Raleigh, NC

**1995 JOINT CONFERENCE OF THE FIBER SOCIETY SPRING CONFERENCE,  
65TH ANNUAL CONFERENCE OF TRI/PRINCETON AND 2ND ANNUAL  
CONFERENCE OF NONWOVENS COOPERATIVE RESEARCH CENTER,  
RALEIGH, NC.**

### *Mechanical Properties of Fibers*

Water in Twaron p-aramid and the Effect upon Mechanical Properties

A.A. SCHAAP, H. v.d. WERFF, M.H. SEHKA

Probing the Failure Surface of High Strength Fibers

PHILIP CUNNIFF

Mechanical Property Modification of Aramid Fibers by Polymer Infiltration

A. NETRAVALI and A. MATHUR

Ultimate Mechanical Properties of the Basalt Filaments

JIRI MILITKY and VLADIMIR KOVACIC

The Effect of Surface Defect Geometry on the Tensile Failure of Aminolyzed  
Poly(ethylene terephthalate) Fibers

SARAH A. HOLMES

### *Textile Technology/Characterization*

Analysis of Fabric Roll Making

TUSHAR K. GHOSH and HONG PEN

The Effect of Mutual Bonding of Textile Layers on Thermal Insulation and Thermal  
Contact Properties of Fabric Assemblies

LUBOS HES, MARIO DE ARAUJO and VALENTIN DJULAY

Improvement of the Performance and Comfort of Ramie and its Blends

K.P.S. CHENG and Y.L. HOW

Applying Fourier Transform Analysis to Geometric Characterization in Woven Fabric

SAID ABDELKARIM HOSSEINI RAVANDI

Study of Strengths of Woven Fabrics

NING PAN

### ***Symposium On Nonwovens I***

Geometrical Probabilities on Random Fiber Webs - Theories and Some Simulation Results

MOON SUH

Measurement of Web Structure On-Line - A Potential Technique

HAWTHORNE DAVIS, RADHAKRISHNA VEERABADRAN, SUBHASH K. BATRA and ARTHUR C. BULLERWELL

The Effect of Sterilizing Radiation on Nonwoven Fabrics

W. CHAPPAS, B. POURDEYHIMI

A Review of Different Methods for Assessing Fiber Orientation in Nonwovens

B. POURDEYHIMI, R. RAMAMATHAN

Structure and Properties Development in a Spunbonding Process

DONG ZHANG, GAJANAN S. BHAT, SANJIV R. MALKAN and LARRY C. WADSWORTH

### ***Symposium On Nonwovens II***

Performance Evaluation of Nonwoven Geotextiles in Soil-Fabric Interaction

HONGLIAN ZHAI, SUMITA BASU MALLICK and SABIT ADANUR

Predicting the Leakage Performance of Incontinence Pads Using Laboratory Tests

ALAN COTTENDEN, GRAHAM DEAN and RODNEY BROOKS

Absorbency Behavior of Webs Containing Cellulosic and Noncellulosic Fibers

B.S. GUPTA

### ***Composite Structures***

Modeling for Suppression of Moisture/Temperature Induced Dimensional Changes in Fibrous Composite Structures

YIPING QIU and STANLEY BACKER

Evaluation of Composite Manufacture Using Braided Towpregs

A. RAMASAMY, Y. WANG and J. MUZZY

### ***Fiber Characterization***

Influence of PET Microstructure on Penetrant Diffusion Kinetics

D. R. SALEM, X.X. HUANG and H.-D. WEIGMANN

Ultra-Violet Stabilization of Polyester Fibers

S. B. RUETSCH, X.X. HUANG, D.R. SALEM and H.-D. WEIGMANN

SEM, EDS and FTIR Examination of Archaeological Mineralized Plant Fibers

H. L. CHEN, K. A. JAKES and D.W. FOREMAN

Starch Fibers; Processing and Characteristics

DANA EAGLES, DANIEL LESNOY and SANDRA BARLOW

### ***Textile Technology***

Developments in Automatic Control of Sewing Parameters

A.M. ROCHA, M.F. LIMA, F.N. FERREIRA, M.D. ARAUJO

Evaluation of the Product Quality and Performance of Siro-Spun Silk / Siro-Spun Silk Blended Yarns

M. SHIVAKUMAR, Y.V. NAGABHUSHANAIAH and T.H. SOMASHEKAR

### ***Fiber Formation***

Can Improved Fibers be Obtained via Spinning from Crystalline Polymer Inclusion?

N. VASANTHAN, G. MCKINNEY and A.E. TONELLI

Shear Precipitated Chitosan Fibrils

SAMUEL HUDSON and SONJA SALMON

Formation of Gels from Cellulose/Ammonia/Ammonium Thiocyanate Solutions

MARGARET W. FREY, JOHN A. CUCULO, and NORMAN AMINUDDIN

The Spinning of Cellulosic Fibers with NMMO as a Solvent

B. LASKIEWICZ

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