

the fiber society

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



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Spring 1996 Meeting

Princeton, NJ

May 13-15, 1996

Papers Presented at the Joint Conference of

THE FIBER SOCIETY

TRI 69TH ANNUAL CONFERENCE

and

NONWOVENS COOPERATIVE RESEARCH CENTER 3RD ANNUAL

CONFERENCE

- "Polyolefin Fibers by Solid State Forming", Roger S. Porter
- "Thermoplastic Fibers Reinforced with Thermotropic Liquid Crystalline Polymers", Donald G. Baird
- "Advances in High Performance Specialty Fibers", G. Farrow
- "Aramid/Inorganic Hybrid Fibers", Kiu Seung Lee
- "A Unique One Step Process of Achieving Fully Oriented Yarn Properties with <1500 m/min Take-Up Speed", T.Y. Tam and C.Y. Lin
- "Air Cooling of Synthetic Multifilament Yarns", T. Charbonneaux, R. Tasse and M.L. Riethmuller, P. Barthelemy
- "A New Model of Non-Isothermal Crystallization for Modeling Melt Spinning", Andrzej Ziabicki
- "Structural and Mechanical Characterization of Fibers with Remote Laser Raman Microscopy", Costas Galiotis
- "Investigation of Structural Evolution During the Melt Spinning Using On-Line SAXS-WAXS Techniques", M. Cakmak
- "Analysis of Structural Features of Significance to the Study of Diffusion

Behavior in Nylon 6 Fibers", N. Sanjeeva Murthy

- "Solid-State Polymerization in Polyesters and Polyamides: Mechanism, Kinetics and Morphological Consequences", S.Rangarajan, S.Narayan, R.Knorr, P.Desai, A.Abhiraman
- "Resilience Properties of Polypropylene Carpets", L. Vangheluwe and P. Kiekens
- "Anisotropy in the Mechanical Properties of Fibers", Sueo Kawabata
- "Predicting the Knotting Performance of Surgical Sutures", Tao Hong, Martin W. King, Randolph P. Guzman, Robert Guidoin
- "Bending Fatigue of Carbon Fiber Reinforced Epoxy Composite Strands", Rebecca Couillard and Peter Schwartz
- "Finite Elements for Yarn Mechanics", Wayne A. Munro
- "Elongational Rheology of Polymer Melts in Converging Dies", Ajit V. Pendse and John R. Collier
- "Dynamic Mechanical Studies of Nylon 66 Fibers in Water/Glycerol Baths", Hawthorne Davis
- "The Microstructure of the Transcrystalline Region in Fiber-Reinforced Polypropylene Composites", D.M.Dean, R.A. Register, L.Rebenfeld, B.S.Hsiao
- "In-Plane Movement of Liquids Through Curved Fabric Structures", H. L. Friedman
- "Automated Image Acquisition and Analysis For Single Fiber Composite Testing", S.P.Wesson, J.N.Walker, R.Johnson, A.Netravali, R.Parnas
- "Evaluation of a Ballistic Fabric", Y.K. Kamath, K.R. Ramaprasad, H.D. Weigmann, H. Kuhn
- "Writing Performance - The TRI Pen Line Evaluator", Bernard Miller, Sheldon P. Wesson, Jo N.Walker, Robert A.Johnson
- "The Influence of Resin Variables on the Structure and Properties of Melt Spun Polypropylene Filaments", J.E.Spruiell, F.M.Lu, Z.Ding, G.C.Richeson
- "Conditions That Effect the Loss in Fabric Strength Using Cellulases in Denim Garment Washing", Geoffrey Weiss, Dennis McEwan, Mee-Young Yoon
- "Influence of Fiber Structure on Properties of Thermally Point Bonded Fabrics",

Rahul Dharmadhikary, Hawthorne Davis, Thomas Gilmore, Subhash Batra

- "Supercritical Fluid Technology Applied to Textile Fiber Applications", Paul D. Seemuth
- "Using Laser Scanning Confocal Microscopy to Evaluate Fabrics", Karen K. Leonas
- "Polyurethane Membranes For Protective Clothing: Dynamic Contact Angles and Rate Effects", Pauline Ukpabi, S. K. Obendorf
- "Measuring the Fundamental Adsorption and Aggregation Properties of Commercially Available, Unpurified Surfactants: Results for Quaternary Ammonium Surfactants", Timothy J. Taylor, Andrew D. Cook
- "An Opto-Electronic Device for Online Measurement of Fibre Orientation and Twist Of Threads", M.S. Bradshaw, P.G. Schliachtenko, Y.N. Vetrova
- "Introduction to the Innovative Rotor-Doubling Twister", I-Shou Tsai, Jia-Horng Lin
- "The Wet Comfort of Small Disposable Incontinence Pads", Alan Cottenden , Grahams Dean, Rodney Brooks, Pat Thorburn
- "Relation Between Fiber Breakage and Length Properties of Cotton", Kearny Q Robert
- "Formaldehyde-Free Zein Fiber -- Preparation and Investigation", Yiqi Yang, Liming Wang, Shiqi Li
- "Mechanics of Needlepunching Process and Products: Study of Forces Experienced by Individual Needles During Needlepunching", Abdelfattah M. Seyam, Asaad S. Mohamed

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