

*Second Annual Conference on*  
**Recycling of Fibrous Textile and Carpet Waste**

Sponsored by  
The School of Textile & Fiber Engineering, Georgia Institute of Technology

**May 19-21, 1997**  
Renaissance Atlanta Hotel Downtown, Atlanta, GA, Ph. 404-881-6000

**Conference Co-Chairs**  
Dr. Satish Kumar and Dr. Youjiang Wang  
School of Textile & Fiber Engineering  
Georgia Institute of Technology  
Atlanta, GA 30332-0295

## CONFERENCE PROGRAM

### Monday, May 19, 1997

**7:30 Registration/Continental Breakfast (Included)**

#### 8:45-12:00 Session I

**Chair:** John Muzzy, Georgia Tech

**6ix Again Carpet Recycling Program at BASF**  
Tim Blount and Randy Sferrazza, BASF Corp., Enka, NC  
**Systems Modeling in the Design of Reverse Logistics Infrastructure for Carpet Recycling**  
Matthew J. Realff, Jane C. Ammons, and David Newton,  
Georgia Institute of Technology, Atlanta, GA  
**Carpet Component Identification Coding (CCIC) System**  
Michael Knee, Marsh Micro Systems, Chattanooga, TN

**10:15-10:45 Refreshment Break**

**Chair:** John Conyers, Jr., Shaw Industries

**Development of an Improved Fiber Identification System for Carpet Recycling**  
Stephen T. DeJesus, Qian Wang, and Dan Klevisha,  
Brucker Optics, Billerica, MA  
**Georgia Pollution Prevention Assistance Division (P<sup>2</sup>AD)—A New Partner for Solid Waste Reduction and Recycling Market Development**  
Bob Donaghue, Pollution Prevention Assistance Division,  
Georgia Department of Natural Resources, Atlanta, GA

**12:00-1:30 Lunch (Included): 25<sup>th</sup> Floor**

#### 1:30-5:00 Session II

**Chair:** Robert Evans, National Renewable Energy Laboratory

**Updates on DuPont's Activities in Carpet Recycling**  
Peter Kasserra and David Trickett, DuPont Canada, Inc.,  
Kingston, Ontario, Canada  
**Progress in the Depolymerization of Nylon 6,6**  
Malcolm Polk, Georgia Institute of Technology, Atlanta, GA  
**Waste Minimization and Recycling in the Carpet Mill**  
Howard Elder, J & J Industries, Dalton, GA

**3:00-3:30 Refreshment Break**

**Chair:** Robert Fensterheim, SB Latex Council

**Fundamental Aspects of Fiber Reprocessing**  
Carl Lehner, Leigh Fibers, Spartanburg, SC  
**Recycling of Carpet Waste by Injection and Compression Molding**  
Yi Zhang, John D. Muzzy and Satish Kumar, Georgia  
Institute of Technology, Atlanta, GA  
**Thermoplastic Waste Reclamation—Warm Feed Repelletizing System**  
Jess Turner, Frankl & Thomas, Inc., Greenville, SC

**5:30-7:30 Reception: 25<sup>th</sup> Floor**

#### TABLETOP DISPLAYS

**Monday, May 19 and Tuesday, May 20**  
**Peachtree Room**

**Tuesday, May 20, 1997**

**7:30 Continental Breakfast (Included)**

**8:30-12:00 Session III**

**Chair:** Howard Elder, J & J Industries

**Zero Waste Management Program**

Ed Carreras, Recycling Research & Technologies,  
Newtown Square, PA

**SIERRA Program Overview: Synthetic Industries'  
Environmental Resource Reduction Action**

Tony Knick, Synthetic Industries, Chickamauga, GA

**New Developments in Vehicle Recycling**

Amos Golovoy and John L. Sullivan, Ford Motor Co,  
Dearborn, MI

**10:00-10:30 Refreshment Break**

**Chair:** John Bogdany, GenCorp

**Use of Recycled and Waste Fibers in Asphalt Concrete**

G. Scot Gordon, Darrel V. Holmquist, and Thomas W.  
Kennedy, CTL Thompson, Inc., Denver, CO

**Carpet Waste for Soil Stabilization**

Youjiang Wang, Georgia Institute of Technology, Atlanta,  
GA

**Conversion of Recycled Polymers/Fibers into Melt  
Blown and Spunbonded Nonwovens**

Gajanan Bhat, Vasanth Narayanan, Larry Wadsworth, and  
Maureen Dever, University of Tennessee, Knoxville, TN

**12:00-1:30 Lunch (Included): 25th Floor**

**1:30-5:00 Session IV**

**Chair:** Michael Costello, AlliedSignal

**An Integrated Approach to the Recovery of Fiber,  
Chemicals and Energy from Fibrous Textile and  
Carpet Waste**

Robert J. Evans, Carolyn C. Elam, and Stefan Czernik,  
National Renewable Energy Laboratory, Golden, CO

**Microsortation of Post-Consumer Mixed Plastics Using  
Near-Critical Liquids**

Eddy Karmana and Robert Enick, University of  
Pittsburgh, Pittsburgh, PA

**Supercritical Fluid Antisolvent Recovery of Nylon  
from Carpet Waste**

Aron T. Griffith and Christopher B. Roberts, Auburn  
University, Auburn, AL

**3:00-3:30 Refreshment Break**

**1:30-5:00 Session IV (Continued)**

**Chair:** Peter Kasserra, DuPont Canada

**Carpet and Tire Recycling—Compatibilization for  
Value Added Applications**

Charles Beatty, University of Florida, Gainesville, FL

**Automatic, Continuous Filtration of Highly  
Contaminated Melts**

Dana Darley, LCI Corp., Charlotte, NC

**Physical Properties of High Modulus Composites and  
Laminates Made from Waste Carpets and Fabrics**

Abraham M. Kotliar, Georgia Institute of Technology,  
Atlanta, GA

**Wednesday, May 21, 1997**

**7:30 Continental Breakfast (Included)**

**8:30-12:00 Session V**

**Chair:** John Tweedie, Albany International

**An Overview of Commercial Recycling Technologies  
and Textile Application for the Products**

Ken Hawn, Tex America, Charlotte, NC

**Processing and Properties of Yarns and Fabrics from  
Textile Production Waste**

K.P.S. Cheng and K.F. Wong, Hong Kong Polytechnic  
University, Hong Kong

**Bioconversion of Wool Industry Solid Wastes to Value-  
Added Products**

K. Das, P.A. Annis, L. Zhang, E.W. Tollner and C.Q.  
Yang, University of Georgia, Athens, GA

**10:00-10:30 Refreshment Break**

**Chair:** Carroll Turner, Carpet & Rug Institute

**Life Cycle Analysis of Carpet Products**

Matthew J. Realff and Mike Saunders, Georgia Institute of  
Technology, Atlanta, GA

**Thermal Recycling of Carpet and Tire Waste**

William Meuser, Thermal Organic Recycling Equipment  
Corp., Springdale, AR

**Recycling Market Development for Solid Fibrous  
Textile By-Products**

Patricia A. Annis and Mary Sue Brewer, University of  
Georgia, Athens, GA

**12:00 Adjourn**

