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 Nickeel Kase, March Misso Systems, Chatterage, TM

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 (P²AD)—A New Partner for Solid Waste Reduction and Recycling Market Development

Bob Donaghue, Pollution Prevention Assistance Division, Georgia Department of Natural Resources, Atlanta, GA

1:30-5:00 Session II

Chair: Robert Evans, National Renewable Energy Laboratory

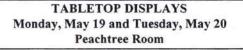
Updates on DuPont's Activities in Carpet Recycling Peter Kasserra and David Trickett, DuPont Canada, Inc., Kingston, Ontario, Canada Progress in the Depolymerization of Nylon 6,6 Malcolm Polk, Georgia Institute of Technology, Atlanta, GA Waste Minimization and Recycling in the Carpet Mill Howard Elder, 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: 25th Floor



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