

Recycling of Fibrous Textile and Carpet Waste

Co-sponsored by

School of Textile & Fiber Engineering, Georgia Institute of Technology and
Consortium on Competitiveness for the Apparel, Carpet and Textile Industries (CCTI)

Red Top Mt. Lodge, Cartersville, GA 30120

Final Program

Wednesday, June 12, 1996

7:30-8:30 Continental Breakfast

8:00-9:00 Registration

9:00-11:45 Session I

Moderators: Chris Bryant, Director, R&TD, Shaw Industries
Satish Kumar, Associate Professor, Georgia Tech

9:00 Welcome

9:15 **Real World Experiences in Carpet Recycling**

Rick Otero, DuPont Nylon, P.O. Box 80025, Wilmington, DE

9:45 **Recycling of Textile Polymers by Flexible Chemical Processing**

Robert Evans, National Renewable Energy Laboratory, 1617 Cole Blvd., Golden, CO

10:15 Coffee Break

10:45 **Depolymerization Processes in the Recycling of Nylon 6, Nylon 66, and PET**

Malcolm Polk, School of Textile and Fiber Engineering, Georgia Institute of Technology, Atlanta, GA

11:15 **Mechanical Separation of Nylon 6 from Post-Consumer Carpet Waste (Not on video tape)**

David Yamamoto, Shred Tech/BASF, 295 Pinebush Rd., Cambridge, Ontario

11:45-1:15 Lunch

1:15-5:00 Session II

Moderators: Charles F. Pratt, Manager of Polymer Materials, GE Corporate R&D
John Muzzy, Professor, Georgia Tech

1:15 **An Overview of the Textile Recycling Industry: Current Status and Future Directions**

Edward Stubin, Trans-Americas FSC, Inc., 116-122 West St. P.O.Box 365, Brooklyn, NY

1:40 **Textile Waste - Garbage or Raw Material**

Don Cantrell, Leigh Fibers, P.O. Box 1132, Spartanburg, SC

2:05 **Carpet Waste Fibers for Concrete and Soil Reinforcement**

Youjiang Wang, School of Textile & Fiber Engineering, Georgia Institute of Technology, Atlanta, GA

2:40 Coffee Break

3:10 **Overview: Center of Excellence on Fibrous Waste Utilization at Georgia Tech**

Fred Cook, School of Textile and Fiber Engineering, Georgia Institute of Technology, Atlanta, GA

3:30 **Carpet Waste to Energy Conversion: A study with emphasis on economic and environmental factors**

Jim Rader, World Carpets, Inc., P.O. Box 1448, Dalton, GA

4:00 **Recycling for Profit: A Case History**

Siebolt Hettinga, Hettinga Technologies, 2123 N.W. 111th St, Des Moines, Iowa

5:00-7:00 Reception

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Final Program (Continued)

Thursday, June 13, 1996

7:30-8:30 Continental Breakfast

8:30-11:35 Session III

Moderators: Paul Weinle, V.P. Research & Development, Collins & Aikman
Youjiang Wang, Associate Professor, Georgia Tech

8:30 Announcements

8:35 Developments in Mechanical Separations in Post-consumer Carpets

Hank Traweek, United Recycling, 3119 Lynn Ave. S., St Louis Park, MN

9:05 Reactive Extrusion of Post-Consumer Carpet into Thermoplastic Resins

Jerry Dickerson, Monsanto Chemical Co., P.O. Box 97, Gonzalez, FL

9:35 Polymer Blends and their Relevance to Fiber, Textile, and Carpet Waste Recycling

Satish Kumar, School of Textile and Fiber Engineering, Georgia Institute of Technology, Atlanta, GA

10:05 Coffee Break

10:35 Mechanical Properties of Thermoplastics from Textile Waste

John Muzzy, School of Chemical Engineering, Georgia Institute of Technology, Atlanta, GA

11:05 Plastic Laminates from Recycled Carpet

Abe Kotliar and Stephen Michielsen, School of Textile & Fiber Engineering, Georgia Institute of Technology, Atlanta, GA

11:45-1:15 Lunch

1:15-3:00 Session IV

Moderators: Jerry Dickerson, Monsanto Chemical Co.
Stephen Michielsen, Associate Professor, Georgia Tech

1:15 Life Cycle Analysis: A Tutorial Through the Case of Carpet Tiles

Matthew Realff, School of Chemical Engineering, Georgia Institute of Technology, Atlanta, GA

1:50 Process for Recycling Vinyl Backed Carpet

Paul Weinle, Collins & Aikman Floor Coverings, 311 Smith Ind. Blvd., Dalton, GA

2:20 Recycling of Carpet/Textile Waste and Packaging Materials

Bart Campbell, Cycle-Tex, Inc., 111 W. Westcott Way, Dalton, GA

3:00 Adjourn