

## INDIVIDUAL PROJECT SUMMARIES

	Page
<b>Joint Projects</b>	
Electrotechnology Applications In Textile Manufacturing .....	S92C6 ..... 1
Gas, Liquid, Aerosol Fabric Barrier Systems .....	1
Textile Structural Composites .....	2
<b>Materials</b>	
Cotton Fiber Quality and Selection .....	A92C1 ..... 4
Textile Structural Composites .....	S92C12 ..... 2
Production and, Characterization of Textile Fibers Formed From Intrinsically Electrically Conductive Polymers .....	C92C8 ..... 4
A Comparison of Thermal and Solvent Desorption and Supercritical Fluid Extraction for In-plant Process Organic Volatiles Analysis .....	5
Dimensional Stability, Aesthetic and Mechanical Properties of Micro-Fiber Blended Knitted Fabrics .....	* C92C3 ..... 8
HVI Subsystem for Fiber Surface and Fracture Characterization by Acoustic Spectrum Analysis .....	7
Recycling Of Carpet Waste .....	7
Appearance Defects in Fabrics .....	8
<b>Environment &amp; Design</b>	
Source Elimination of Color Pollution Using Ozone .....	A92C4 ..... 9
Pollution Reduction in Textile Manufacturing .....	9
Reduction Of Pollutants In Textile Processing Wastewater .....	10
Synthetic Dyes Based on Toxicologic Considerations .....	S92C2 ..... 10
Gas, Liquid, Aerosol Fabric Barrier Systems .....	1
Development of Machine Design Specifications to Produce a Traditional Flat Woven Structure By Bias Slitting a Tubular Braid .....	A92C3 ..... 11
<b>Manufacturing</b>	
Electrotechnology Applications In Textile Manufacturing .....	S92C6 ..... 1
Use of Continuously Monitored Data in Product Improvement .....	12
Structure Development and Stability of Air Jet Textured Yarns .....	12
The Quantitative Evaluation of Fabric Preparation Quality .....	13
Structure/Property Relationship in Yarns: Spun Yarns Made from Blends of Cotton and Fine Denier Polyester Fibers on Rotor and Air Jet Systems .....	13
Production and Properties of Fine- and Micro- Denier Fibers. ....	14
Yarn Performance During Weaving .....	14
Coloration Systems For Quick Response Manufacturing .....	G 93 C5 ..... 14
Distributed Process Monitoring and Control Systems .....	15
Flexible, Short Run Yarn and Fabric Formation .....	15
Dynamics of High-Speed Yarn Transport in Textile Processes .....	S92C5 ..... 16
Wet Processing Optimization and Control .....	17

<b>Manufacturing (con't)</b>	<b>Page</b>
Dynamic Interactions of Fabrics with Manufacturing Processes .....	18
Maximization of Quality, Productibility, and Profitability for U.S. Cotton and Cotton Spinning Industries under CIM, HVI, and On-Line Process Control Networks .....	18
CIM in the FTA Industrial Complex .....	S92C11... 19

**Systems**

Globalization, 1970 to 1992: Structures and Strategies for Success in the International Textile-Apparel-Retail Arena .....	20
A Market Model for U. S. Apparel Exports to Mexico .....	A92C7... 21
The Computer-Integrated Forecasting System: A Quick Response Strategy for Product Development and Just-In-Time Manufacturing and Merchandising .....	A92C6... 22
Match Marketing for Import Substitution .....	22
Analysis/Modeling of Actions and Interaction of FTAR Firms .....	S92C4... 23
Projection of U.S. Apparel Demand and Consumer Profiles Based on Demographic Changes for the Period 1991-2010 .....	S92C7... 24