

RESUME

D. A. Shiffler, PhD, CText FTI

Adjunct Associate Professor, Nonwovens Cooperative Research Center
Principal Consultant, Applied Fiber Science, Inc.

Education:

- Ph.D., Chemical Engineering, Managerial Economics minor, Cornell University, Ithaca, NY, June 1965, Dissertation: "Jet Flow Studies in the Streaming Jet Region"
- MS, Chemical Engineering, Mathematics minor, Penn State University, University Park, PA, 1961
- BS, Chemical Engineering, Penn State University, University Park, PA, 1959

Industrial Experience:

- Research Fellow, E. I. Dupont, Dacron® Research Laboratory, Kinston, NC, June 1965 to April 1996. Technical and management positions in the following areas:
 - High modulus staple fiber properties and process
 - Polyester polymerization and direct esterification
 - Bulked continuous filament polyester yarn
 - Industrial yarns for tires, cordage, and seat belts
 - Polyester binder fiber for thermal bonded nonwovens
 - Polyester fibers for wet lay nonwovens
 - Design of polyester fibers for ring spinning and efficient weaving performance
 - Microfiber polyester staple processing

Patents:

- US 5,145,622, "Improvements in process for preparing water-dispersible polyester fiber", September 8, 1992
- US 4,713,289, "Water-dispersible synthetic fiber", December 15, 1987
- US 4,707,407, "Synthetic water-dispersible fiber", November 17, 1987
- US 4,146,729, "Process for preparing poly(ethylene terephthalate)", March 1979 (Process now used in polyester plants worldwide)

Publications:

Publications in the following fields (references available):

- Stress-strain behavior of crimped polyester staple fibers
- Kinetics and apparatus effects on top roll wraps in ring spinning
- Kinetics of water dispersion of synthetic fibers
- Fiber caused defects in wet lay nonwoven fabrics.
- Microfiber staple processing in cotton system spinning and nonwovens carding
- Properties of polyester / fiberglass wet lay nonwoven blend fabrics
- Design of Fibers for Wet Lay Nonwovens
- Improving Properties of Hydroentangled Dry Lay Nonwovens by Adding Small Amounts of Binder (In Press)