

**MARTIN I. JACOBS, Ph.D.**  
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## EXPERIENCE

NATIONAL TEXTILE CENTER (Spring House, PA)

*Executive Director*

2003-present

- Directs consortium of 8 universities doing federally-funded textile research (www.ntcresearch.org).

JACOBS CONSULTING SERVICES, LLC (Blue Bell, PA)

*CEO, Consultant*

2001-present

- Provides consulting, expert witness, and training services to industrial, academic, and individual clients in the areas of polymer technology (textiles/plastics/rubber – specializing in flammability), patent system development, and project management,.

DREXEL UNIVERSITY, Fibrous Materials Research Center (Philadelphia, PA)

*Adjunct Research Professor*

2001-2009

- Provided polymer technical guidance to graduate students on their PhD thesis research.

VELCRO GROUP CORPORATION (Manchester, NH)

*Technical Director*

1992-2001

- Responsible for worldwide management of new product development for all VELCRO® fastener markets (Personal Care, Industrial, Consumer, and Automotive).
- **Included development of processes for continuously molding plastics (polypropylene, polyethylene, PVC, and nylons) and rubbers;** adhesives and binder coating development for woven & knit textile products; and research into replacement of woven fabrics with nonwovens.
- Coordinated outsourcing of R&D with universities, suppliers, consultants and research institutes.
- Chairman of Corporate New Products Committee; member of Global Corporate Planning Team.
- Originated use of cross-functional product development teams, and established New Products Committee to review project requests and monitor Project Team/customer interaction.
- Increased sales due to new products from about 10% of total sales in 1992 to 30% in 2000.
- Increased number of issued patents from 3-5/yr. prior to 1992 to 20/yr. by 2000.

UNIVERSITY OF NEW HAMPSHIRE (Durham, NH)

1999-2001

*Guest Lecturer, Mechanical Engineering*

- Presented lecture on "New Product Development" as part of "Senior Design Project" course.

BENTLEY-HARRIS MANUFACTURING COMPANY (Lionville, PA)

*Manager, Technology & Product Development*

1990-92

- Responsible for management of new product development for wiring harnesses in automotive, industrial and aerospace markets, using silicone, PVC, and acrylic coated fiberglass braid; also composites based on braided preforms (fiberglass, carbon fiber) and resin transfer molding, as well as compression molding of fiberglass/phenolic prepregs (automotive heat shields).
- Served as liaison with French subsidiary and with Corporate R&D in the UK.

UNIROYAL, INC. (and subsidiaries)

1969-90

Uniroyal Engineered Products Co., (Mishawaka, IN)

1982-90

*Vice President – Research & Development*

- Provided technical direction and project management for all UEP divisions (NAUGAHYDE® PVC coated fabrics, **EPDM rubber coated fabrics**, **KOYLON® latex foam**, and **rubber auto mats**).
- Responsible for product/process development, technology licensing, environmental regulation, and acquisitions/joint ventures.
- Developed effective teamwork among Coated Fabrics R&D, Marketing, and Manufacturing Departments, leading to identification, development, and launch of 12 new products in automotive and contract upholstery markets (over \$10M/yr. sales).
- Widely recognized expert in fire technology (smoke reduction and full-scale fire testing).
- Major participant in three Japanese and two German technology licenses.

Uniroyal Chemical Co., *Manager-TPR Development & Tech Service* (Naugatuck, CT) 1978-82

- **Manager of department responsible for development of new thermoplastic rubber products and technical service to Sales and Manufacturing.**

*Sr. Group Leader, ABS/Polymer Research* 1977-78

- Supervised two groups: one responsible for long-term research for all Uniroyal Chemical Co. polymer products (**EPDM, thermoplastic rubber**, castable and thermoplastic polyurethanes, and **SBR latex**) and the second for development of new ABS polymers.

Uniroyal, Inc.

*Sr. Research Scientist, Corporate R&D* (Wayne, NJ/Middlebury, CT) 1969-77

- Developed smoke/flame retardant formulations for PVC coated fabrics and **neoprene latex foam**, and new low-temperature foaming agent for PVC plastisols (for crash-test dummies).

ALLIED CHEMICAL CORP., *Chemist, Central Research Labs* (Morristown, NJ) 1968-69

- Nylon and polyester fiber research and melt spinning of experimental polymers.

## **EDUCATION**

Ph.D. - Princeton University (Polymer Chemistry); Textile Research Institute Fellowship 1969

B.S. - Rensselaer Polytechnic Inst. (Chemistry); RPI Scholarship, Honors Section, Dean's List 1964

## **PROFESSIONAL ASSOCIATIONS**

TRI-Princeton (formerly Textile Research Institute); Board of Directors (1994-2001; 2002-present), Chairman, Finance Committee (1996-1999), Chairman of the Board (1999-2001)

Rensselaer Polytechnic Institute; Key Executives Committee (1999-2001), Executive Committee (2000-2001); Anderson Center for Innovation in Undergraduate Education - Executive Advisory Committee (1999-2001)

American Chemical Society (1965-present); Chairman, New Haven Section (1975-6), Executive Committee (1975-82), Connecticut Rubber Group (1978-82)

Textile Research Journal, Editorial Advisory Board (2007-present)

Journal of Coated Fabrics, Editorial Advisory Board (1990-94)

National Electrical Manufacturers Association (1990-2); Vice-Chairman, Electrical Sleeving Technical Committee (1991-2)

Chemical Film & Fabrics Association (1986-90); Chairman, Technical Committee (1987-9)

## **Areas of Expertise**

Flammability

Hook & Loop Fasteners

Conductive Fibers

**Thermoplastic Elastomers**

PVC

Polyamides (e.g., nylon, silk)

Coated Fabrics

Electrospinning

Fibers containing carbon nanotubes