

CURRICULUM VITAE

CHARLES LEE RIGGS

February 20, 2008

Education

Post Doctoral Classes	77-79	Business, University of North Texas
Ph.D.	1974	Chemistry, Oklahoma State University
B.S.	1967	Chemistry (ACS) and Mathematics (double major), Southwestern State, Oklahoma

Dissertation

"Synthesis and Characterization of Crystalline Complexes of Dimethylsulfoxide with Holmium and Praseodymium Bromides", May 1974, I. Dwaine Eubanks, Major Professor

Employment

1974 – Current	Faculty, Texas Woman's University 1984 – Professor 1979 – Associate Professor with tenure 1974 – Assistant Professor
1970 -1974	Graduate Assistant, Oklahoma State University
1969 – 1970	Soldier (drafted), US Army – Vietnam
1967 – 1968	Graduate Assistant, Oklahoma State University
1965 – 1967	Stockroom Manager (also undergraduate student), Chemistry Department, Southwestern State College, OK

TEACHING

Courses Taught at TWU

(Undergraduate)

Fashion and Textiles (School of Management):	Department of Chemistry and Physics:
FT 1053 Textiles I	CHEM 1111 Principles of Chemistry Laboratory I
FT 1073 Textiles	CHEM 1113 Principles of Chemistry I
FT 2053 Textiles II	CHEM 1121 Principles of Chemistry Laboratory II
FT 2063 Apparel Production Analysis	CHEM 1123 Principles of Chemistry II
FT 3203 Quality Assurance and Textile Evaluation	
FT 3163 Production Management	

(Graduate)

FT 5013 Modern Trends in Textile Development	CHEM 5913 Organic and Polymer Chemistry
FT 5073 Advanced Principles of Textile Testing	CHEM 5913 Inorganic Chemistry
FT 5143 Principles of Textile Detergency	
FT 5223 Textile Science	

Doctoral Dissertations (Chair)

Bubonia-Clarke, Janace E., "Bond Strength, Dimensional Stability, and Appearance of Fused Fabrics after Professional Cleaning," Ph.D. Dissertation, May 1998

Master's Theses (Chair)

Sanford-Tuazon, Edith, "Comparison of the Effects of Yarn Spinning Methods on Sheeting Fabrics," Master's Thesis, May 2001

Cason-Hach, Elizabeth, "Developing a Test Method for Measuring Excess Fiber Loss and the Effects of Sanding on Polyester Microfiber Fabric," Master's Thesis, December 2000

Storrs, Allison, "Top Loading Washers vs. Front Loading Washers; A Correlation Study Of Dimensional Stability and Appearance Retention", Master's Thesis, May 2000

Other Scholarly Teaching, Mentoring and Curricular Achievements

I serve as director and one of the instructors for the PMI offering under TWU Office of Lifelong Learning. The Production Management Institute has been an annual offering of TWU in cooperation with two national associations since 1990. The program brings revenue to the Office of Lifelong Learning of about \$200,000 per year.

SCHOLARSHIP/CREATIVE ACHIEVEMENTS

Refereed Publications or Other Creative Achievements

Books:

Charles L. Riggs and Michael Klipper, Textile Laundering Technology, Revised Third Edition, Textile Rental Services Association of America, March 2005 (reprint 2006)

Articles:

J.E. Clark, C. Riggs, and D.D. Young, "Effects of Cleaning Processes on Bond Strength and Appearance of Fused Fabrics," **AATCC Review**, September 2002. pp. 26-29

J.E. Clark, C. Riggs, and D.D. Young, "Effects of Cleaning Processes on Dimensional Stability of Unfused and Fused Fabrics," **AATCC Review**, April 2001. pp. 46-40

Presentations at Professional Meetings

Charles Riggs, "International Harmonization of Care Labeling - Who are the Decision Makers?" International Drycleaners Congress Convention, October 4, 2001

Charles Riggs, "Comparative Testing of Linen Supply Textiles," Central States Corporation, January 1999

Charles Riggs, "Comparison of Cleaning Technologies," EPA Design for the Environment Garment and Textile Care Conference, March 31-Apr. 2, 1998

Honors, Grants, and Fellowships

Honors:

2003 – current: Nominated to serve on an advisory committee to the Texas Commission on Environmental Quality, elected by peers to serve as chairman.

1999 - An international honor was earned by Janace Clark for her dissertation. I served as her major advisor and entered her dissertation in international competition. The dissertation (Bubonia-Clarke, Janace E., "Bond Strength, Dimensional Stability, and Appearance of Fused Fabrics after Professional Cleaning," Ph.D. Dissertation, May 1998) was selected by a panel of judges as **the most outstanding thesis and dissertation** in the area of cleaning technology for the two-year period 1997-1999 and she received the **wFk** Award for her research work and dissertation. The award consisted of the student receiving a cash prize of \$2,500 and an expense paid trip to the 39th International Detergency Conference in Luxembourg to present her dissertation research at the opening ceremony for the conference on September 6, 1999.

Grants (only externally funded grants are reported):

Texas Food and Fibers Commission (TFFC): 1975 – 2005: Core Project on Proper Care of Fabrics containing Natural Fibers: Funding averaged about \$40,000 per year from 1975 till project transfer to Texas Tech in 2003. TWU participation ended on 8/31/05. Most recent funding has been: \$44,094 (1999-2000), \$44,094 (2000-2001), \$40,000 (2001-2002), \$37,950 (2002-2003), \$12,026 (2003-2004), \$14,000 (2003-2005)

Texas Department of Mental Health and Retardation: \$6,500 to \$8,500 every year 1975-2003.

U.S. Environmental Protection Agency

"Testing and Development of Pollution Prevention Alternatives to Reduce Indoor Air Emissions from Perchloroethylene Dry Cleaning and Dry Cleaned Fabrics," \$188,385 (1996-98)

"Development of Test Protocol and Performance Assessment of Alternative Cleaning Technologies," \$37,927 (1997-1998), \$41,766 (1998-1999), \$59,720 (1999-2000), \$24,998 (2000-2001)
Gurtler Chemical Company, Chemicals for Texas Research Center for Laundry and Drycleaning; \$20,000 (In-kind) per year (1997-1999)

PROFESSIONAL SERVICE

Service Activities for the University, College, Component

School of Management
Peer Review Committee
Department of Chemistry and Physics
Peer Review Committee, Chair
Faculty Search Committee
University Committees (current and/or former service)
Student Code of Conduct Review Committee
Faculty Equity Committee

Professionally Related Service

2003 – current: Nominated to serve on an advisory committee to the Texas Commission on Environmental Quality, elected by peers to serve as chairman.

1990 – current: Director, Production Management Institute (PMI) at TWU sponsored by the Uniform and Textile Service Association and Textile Rental Services Association of America. Program is conducted through the TWU Office of Lifelong Learning and has generated an average annual income to TWU in excess of \$200,000 per year since 1990

International Research Committee on Textile Care (ICTC) one of only three US representatives

American Association of Textile Chemists and Colorists
RA43: Professional Fabric Care Test Methods
Chairman (1999-2001), Secretary (1996-1998)
RA75: Correlation of Laboratory Tests with End Use
RA88: Home Laundering Technology
C15: Textile Education
C2-ISO/TC38/SC2, SC2, SC11: International Test Methods

American Society for Testing and Materials
D-13: Textiles
D-12: Soaps and Detergents

Southwest Drycleaners Association
Educational Consultant
1986-2000: Coordinator, educational courses for drycleaning professionals held at TWU's Texas Research Center for Laundry and Drycleaning

Federal Trade Commission (FTC)
Consultant on deceptive labeling: 1998-2000
Invited Member to Review Federal Trade Commission 16 CFR Part 423: Care Label Rule @ Meeting held January 28, 1997

US Representative to European Union AQUACARB Partners Meeting in Delft, Netherlands, August 4-12, 1999

International Standards Organization
Voting delegate of USA to Drycleaning Work Group
US delegate to ISO (International Standards Organization) meetings in Portugal in November 1999
One of only two delegates to represent the US at the ISO SC11 meetings in South Africa in May 2001
US delegate to ISO meetings in Sweden in July 2001
US spokesman on three committees
Convener of Drycleaning Work Group
US delegate to ISO meetings in Sweden in June 2006
US spokesman on two committees

United States Environmental Protection Agency (EPA)
Reviewer of Cleaner Technologies Substitute Assessment: 1998
Design for the Environment Garment & Textile Care Committees:
Chair, Research and Technology Workgroup
Dry Cleaning Workgroup
Outreach and Education Workgroup
Textile Workgroup

Memberships in Professional Societies

American Chemical Society
American Association of Textile Chemists and Colorists
American Society for Testing and Materials