

**Yiqi Yang, Ph.D.**  
**UNL Distinguished Professor (Charles Bessey Professor)**  
**Department of Textiles, Merchandising and Fashion Design (TMFD) &**  
**Department of Biological Systems Engineering (BSE)**  
**Nebraska Center for Materials and Nanoscience**  
**Institute of Agriculture and Natural Resources**

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**Education**

**Purdue University**

- Majoring in textile science with a biotechnology focus
- Cumulative GPA: 5.93 on 6.00 scales
- Doctor of Philosophy in August, 1991
- Advisors: Dr. Michael R. Ladisch, and Dr. Christine M. Ladisch

**China Textile University(Currently, Donghua University)**

- Majoring in textile chemical engineering
- Cumulative GPA: 4.75 on 5.0 scale
- Master of Science in Engineering
- Advisor: Professor Wang Jusheng

**Shanghai Textile Institute(Currently, Donghua University)**

- Majoring in textile chemical engineering
- Cumulative GPA: 5.0 on 5.0 scale
- Undergraduate certificate

**Professional Experience**

**University of Nebraska-Lincoln**

- From August 2001-  
Professor of Textile Sciences, Department of Textiles, Clothing and Design (85%), and Department of Biological Systems Engineering (15%)
- Teaching:  
**TMFD 101 Textiles, Merchandising & Fashion Design Orientation Seminar** (1cr) (Fall 2013-December 2015) I teach one lecture for 80 minutes per semester. Textile Science and Biotextiles  
**TMFD 206 Textiles** (3cr) (Fall 2002-42; Spring 2004-47)  
**TMFD 399 Textiles, Merchandising & Fashion Design Orientation Seminar** (1cr) (Fall 2012-Spring 2013) I teach one lecture for 80 minutes per semester.  
**TMFD 405/805 Advanced Textiles** (3cr) (Fall 2001-under-29, grad-2; Fall 2002-under-36, grad-5; Fall 2003-under-28, grad-2; Fall 2004-under-26, grad-1. Fall 2005-under 33, grad-1; Fall 2006-under-40,grad-1; Fall 2007-under-44, grad-3; Fall 2008-under -39, grad-3; Fall 2009-under-32; Fall 2010-under-39; Spring 2011-under 1; Fall 2011-under 50, grad-3; Fall 2013-under 41,grad 4; Fall 2014-under 23, grad1; Fall 2015-under 27, grad 4; Fall 2016-under 30, grad 4;)  
**TMFD 406/806 Textile Testing and Evaluation** (3cr) (Spring 2002-under-12, grad-5; Spring 2003-under-23, grad-1; Spring 2004-under 17, grad-3; Spring 2005-under 11; Spring 2006-8; Spring 2007-under3, grad3; Spring 2008-under 18, grad 4; Spring 2009-under 9, grad 2; Spring 2010-under24; Spring 2011-under28, Grad2; Spring 2014-under18, Grad4;Spring 2015-under 14, Grad 2; Spring 2016-under 27)

**TMFD 428/828 Textile Coloration** (3cr) (Spring 2003-under-1, grad-5; Fall 2004-grad-3; Spring 2006-under4, grad-1; Spring 2007-under2, grad3; Spring 2008-under1, grad4; Fall 2008-under3, grad5; Fall 2010 under 6, grad 2; Fall 2013 under 2, grad 5; Fall 2015 under 3, grad 3).

**TMFD 489 Internship: Textile testing and evaluation (3cr)** (Summer 2006-1)

**TMFD 492/892 Professional Study Tour-International** (2 cr) (May 2010-30; May 2013-16)

**TMFD 499 Undergraduate Researches** (Spring 2004-1(3cr); Fall 2005-1(3cr); Spring 2007-1(3cr); Spring 2014-1(3cr); Fall 2015-1 (3 cr))

**TMFD 811A TMFD Problems** (Spring 2008-2(7cr); Fall 2008-1(1cr); Spring 2015-1(3cr); Fall 2015-2(7cr.); 2016-2(7cr.))

**TMFD 875 Research Methods (3cr.)** (Fall 2011-2; Fall 2016-2)

**TMFD 896/896A Independent Study (3cr)** (Spring 2002-1; Fall 2002-2; Spring 2003-4, Fall 2003-3; Spring 2004-3, Fall 2004-2; Spring 2005-1; Fall 2005-1, Spring 2006-1, Fall 2006-1, Fall2007-3; Spring 2008-4(13cr); Fall 2008-1(3 cr); Spring 2009-2(5cr); Fall 2009-1(3 cr); Spring 2012-2(4 cr.); Spring 2013-1(1cr); Spring 2014-1(4cr); Fall 2014-1(1cr); Spring 2015-2(5cr). Summer 2016-1(4 cr.))

**TMFD 899 Masters Thesis** (Fall 2001-2(6cr); Spring 2002-2(6cr); Fall 2002-2(8cr); Spring 2003-3(12cr); Fall 2003-4(16cr); Spring 2004-5(20cr); Fall 2004-6(20cr); Spring 2005-1(9cr); Fall-2005-1(9cr); Spring 2006-1(9cr); Summer 2006-2(6cr); Fall 2006-2(7cr), Spring 2007-1(1cr); Fall 2007-2(12cr); Fall 2008-2(12cr.); Spring 2009 2(10cr.); Fall 2009 1(1cr.); Spring 2010 1(1cr.); Fall 2011 1(3cr); Spring 2012-2 (14cr.), Fall 2012-3 (11cr); Spring 2013-4(6cr); Summer 2013-1(1cr.) Fall 2013-2 (4cr.) Spring 2014-1(1cr.); Fall 2014-2(5cr.) Spring 2015-2(7cr.); Fall 2015-1(2cr.); Spring 2016-1(1cr.); Summer 2016-1(1cr.); Fall 2016-1(1cr.)).

**TMFD 905/905A Advanced Problems: Textiles** (Fall 2008-1(3 cr) Fall 2009-2(6cr), Spring 2011-2(6cr.); Spring 2016-1(2 cr.); Fall 2016-2(6cr.));

**TMFD 986 Graduate Seminar (1cr)** (Spring 2005-14 (2 for credit); Fall 2005-18(1 for credit), Spring 2006-22(2 for cr)), Fall 2006-18. Spring 2007 (5 for cr.), Fall 2007 (2 for cr.); spring 2008 (2 for cr.)

**TMFD 995 Doctoral Seminar (3 cr)** (Spring 2007-2, Fall 2007-1; Spring 2009-1; Spring 2010-1; Fall 2013-1; Spring 2014-1(2cr); Fall 2014-1(1c); Spring 2016-2(6 cr.); Fall 2016-1(3 cr.))

**TMFD 996 Research other than thesis (ind Study)** (Spring 2016-1(3cr.); Fall 2016-1(2cr.)).

**TMFD 997 Internship: Textile testing and evaluation (3cr)** (Fall 2001-1; Spring 2002-1; Fall 2002-2; Spring 2003-1; Fall 2003-2; Spring 2004-1; Fall 2004-1; Fall 2005-1; Fall 2006-1).

**TMFD 999 Doctoral Dissertation** (Spring 2003-1(3cr); Fall 2003-2(6cr); Spring 2004-2(12 cr); Fall 2004-2(12 cr); Spring 2005-2(18cr); Fall 2005-2(6 cr), Spring 2006-2(14 cr), Fall 2006-2(4cr.), Fall 2007-1(5cr); Spring 2008-1(2cr.); Summer 2008-2(7cr.); Fall 2008-1(12cr);Spring 2009-1(1cr.); Summer 2009-2(4cr); Fall 2009-2(5 cr.); Spring 2010-2(15 cr.); Fall 2010-2(18 cr.); Spring 2011-2(12 cr.); Fall 2011-3(20cr.); ); Spring 2012 -2(10cr.); Summer 2012-1(1 cr); Fall-2012-3(18cr); Spring 2013-3(23cr); Fall 2013-2(4 cr.);Spring 2014-2(3cr.);Fall 2014-1(6cr.); Spring 2015-2(18cr.); Fall 2015-2(10cr.); Spring 2016-1(10cr.); Fall 2016-1(1cr.)).

**BSEN 896 Special Problems** (Spring 2009-1(2cr); Summer 2009-1(2cr.); Spring 2010-1(2cr.); Spring 2011-1(1cr.); Summer 2011-1(1cr.); Spring 2012-2(10 cr.)).

**BSEN 899 Master Thesis** (Spring 2010-1(7cr);)

**BSEN 999 Doctoral Dissertation** (Fall 2005-1(5cr), Spring 2006-1(6cr), Summer 2006-1(3cr.) Fall 2006-1(3cr), Spring 2007-1(3cr), Summer 2007-1(3cr), Fall 2007-1(4cr); Spring 2008-1(1cr))

-Invited teachings:

University of Nebraska-Lincoln

**JOUR(Journalism) 202** Reporting I “Biofibers from Agricultural By-Products and Co-Products”., (Feb. 9, 2012)

**TMFD874**, Theory Development. “A Greener and More Sustainable Textile Industry”. (Sept. 26, 2011).

**AGEN/BSEN 303**, Principles of Bioprocess Engineering “Conversion of Agricultural Raw Materials to Biofibers.” (1.5 h per section. March 12, 2009; Jan. 18, 2011; April 8 and 10, 2014; Feb 4, 2016;)

**AGEN/BSEN 225**, Engineering properties of biological materials. "Cellulosic fibers' structure, property and characterization" for Biological Systems Engineering, (Sept. 20, 2002; Nov. 7, 2003; Nov. 19, 2004; Nov. 11, 2005; Oct. 13, 2006; Nov. 9, 2007; Nov. 21, 2008; Sept. 2, 2011; Sept. 12, 2014; Nov. 13, 2015).

**JGEN 200**, Technical Communications “Communication and Culture in China” Journalism and Mass Communications, (Feb 4, 2005).

Donghua University

“Biotextile Chemistry and Engineering”. Introduction to Fine Chemistry and Chemical Engineering. 12.18.2012. 2 hours.

“Biotextiles”, 2012 Summer Graduate School at Donghua University on Textile Chemistry and Dyeing & Finishing Engineering. Approved and hosted by the Higher Education Degree Committee of Shanghai, organized by Donghua University. July 5, 2012, 8:30-11:00 am and 2:00-4:30pm.

“Advanced Dyeing and Finishing Technology” Seniors in Chinese-German Joint Textile Chemistry Bachelors Program, College of Chemistry, Chemical Engineering and Biotechnology (March 19-29, 2013-20 hrs; May 8-18, 2012-20 hrs; Oct. 17—25, 2011-20 hrs).

Jiangnan University

“Advanced theory and technology of dyeing and finishing”. 32 hours 2 credit. (PhD students. Yang, Yiqi) Fall, 2014.

“Non-traditional Biofibers and Their Potentials”, 2012 Summer National Graduate School on Eco-Textile Technology. Approved and hosted by the Ministry of Education of China, organized by Jiangnan University. July 10, 2012, 8:30-11:30 am .

Procter & Gamble: “Fiber Science”; “Textile Chemical Finishing” (Oct. 9, 2006).

Institute of Textile Technology

“Principals of Textile Technology: Color Science and Measurement; Dyeing Technology; Finishing Technology” ((January, 2002).

Milliken & Co.

“Advanced Jet Dyeing” (December, 2001).

-Junior faculty mentoring

Dr. Narendra Reddy, Research Assistant Professor (Jan. 1, 2011-2013). Research Associate Professor (May 2013-May 2014).

Dr. Helan Xu, Research Assistant Professor (Jan. 1, 2014-).

### **Undergraduate Student Advisement**

#### **Undergraduate students mentored**

Fall 2013 (13); Spring 2014(12); Fall 2014 (16).

#### **Undergraduate Student Summer Research Experience**

**Lisa Temme** “Separation and characterization of components from sorghum distillers grain”. June-August, 2013.

#### **UCARE Research Projects**

**Doussou Shannan Karibuhoye Said(BSE)** “Safe and eco-friendly approach for chemical hair straightening” 2016-2017. \$2,400.

**Lisa Temme** “Understanding the Properties and Identifying Potential Applications of Components Extracted from Sorghum Distillers Dried Grains” 2013-2014. \$2,000.

**Alexander Sellers(BSE)** “A Novel 3D Electrospinning Scaffold from Wheat Glutenin for Tissue Engineering Applications”. 2012-2013. \$2000.

**Samantha Christenson**: “Nebraskan/Veteran's Quality of Life” 2011-2013. \$4000.

**Lisa Comes**, “Wheat Straw Fibers.” 2007-2008 . \$2000

**Joshua Avila**: Applications of Sustainable Bio-fibers, 2006-2007. \$2000

**Katey Pegler**: Development of care information for the new PLA fabric, 2004. \$2000

**Yean Ching Tan**: A study on the morphological structures of natural cellulosic fibers from Nebraska’s Agricultural products and byproducts, 2003-2004. \$2000

#### **McNair Summer Research Experience (McNair Scholars Program)**

**Joshua Avila**, Novel Apparels Using Biofibers from Agricultural Byproducts, summer 2006.

### **Graduate Students Advisement**

**Ph.D. Advisor:**

**Md. Milon Hossain** (TMFD 2016-)

**Wei Li** (TMFD 2015-)

**Binnan Mu** (TMFD 2015-)

**Zhuanzhuan Ma** (TMFD 2013-)

**Jiasong Jiang** (TMFD from 8- 2012-12-2013, switch to Department of Chemistry on January, 2014)

**Yi Zhao** (TMFD 2011-2015). “Biodegradable Slashing Agents from Soy Protein for Textile Industry”.

**Helan Xu** (TMFD 2008-2014) “Regenerated Keratin Fibers from Chicken Feathers for Textile and Biomedical Applications”.

**Qiuran Jiang** (TMFD 2007-2012) “Cytocompatible and Water Stable Ultrafine Protein Fibers for Tissue Engineering”

**Weijie Xu** (TMFD 2006-2009) “Drug Release and Its Relationship with Kinetic and Thermodynamic Parameters of Drug Sorption onto Polylactide, Starch Acetate, Wheat Gluten and Soy Protein Fibers”.

**Shah Huda** (BSE 2005-2008) “Composites from Chicken Feathers and Cornhusk-Preparation and Characterization”

**David Karst** (TMFD 2002-2006) “Studies on the Stability and Intermolecular Interactions of Cellulose and Polylactide Systems Using Molecular Modeling”.

**Narendra Reddy** (TMFD 2002-2006) “Structure and properties of natural cellulose fibers from cornhusks, cornstalks, rice, wheat and soybean straws and sorghum stalks and leaves”.

#### **Ph.D. Committee:**

**Pratik Bhandari** (BSE, 2009-2012) “Chemical Modification of Polysaccharides Using Reactive Extrusion”

**Siew Yoong Lee** (FST, 2006-2008) Reading Committee. “Preparing, characterizing, on-line digital imaging of residence time distribution and modeling of mechanical properties of nanocomposite foams”.

**Govindarajan Suresh Babu (BSE 2005- ) Reading Committee** “Extrusion Process Optimization for Producing Starch-Based Foam Sheets”

**Yixiang Xu** (FST, 2002-2005) Reading Committee “Preparations and properties of biodegradable polymers from starch acetate and starch ”

**Junjie Guan** (BSE, 2002-2005) Reading Committee “Characterization of a two-phase starch-based polymeric system”

**Janet Evenson** (TMFD, 2002-2003) Reading Committee “The effects of accelerated ageing and light on selected contemporary quilting materials”

#### **Master Advisor:**

**Homeira Azari** (TMFD 2016-2016. Transfer to Polymer Science. University of Georgia)

**Md Rashaduzzaman (Rashed)** (TMFD 2016-2016. Switched to merchandising)

**Madhuri Palakurthi** (TMFD 2014-2016) Development of composites from waste textlies.

**Noah Keller** (TMFD minor, Materials Sci. Engg Major. 2015-2017).

**Hazal Canisag** (TMFD 2013-2015). Bio-crosslinking of starch films with oxidized sucrose.

**Yogesh Savalia** (TMFD Spring 2013-Summer 2013. Left to Virginia Commonwealth University Computer Science Department starting from August, 2013).

**Yiling Huang** (TMFD 2012-2014). Fabrication of 3D ultrafine fibrous protein structures via freeze drying.

**Shaobo Cai** (TMFD 2010-2013) ‘Electrospun plant protein scaffolds with fibers oriented randomly and evenly in three-dimensions for soft tissue engineering applications’

**Yue Zhang** (TMFD 2010-2013) ‘Corn Distillers Dried Grains as Environmentally Friendly Sizing Agent’

**Wei Li** (BSE, 2009-2011) “Quantitative Analysis of the Reaction between Gliadin and Citric Acid under Weak Acidic and Weak Alkaline Conditions”.

**Yi Zou** (TMFD2007-2010). “Lightweight Composites from Biological Materials and Polypropylene”.

**Karlin Helms** (TMFD2007-2009). “Low Temperature Non-Toxic Wet Crosslinking of silk with Citric Acid”.

**Wen Yang** (TMFD 2006-2008) “Development of Electrospun Starch Acetate Nanofibers and Their Potential Application in Drug Delivery”.

**Yean Ching Tan** (TMFD 2005-2007) “Enhancing Properties of Wheat Gluten Fibers by Crosslinking”

**Digvijay Nama** (TMFD 2003-2006) “Novel Synthetic Fibers From Polylactic Acid (PLA) / Polypropylene (PP) Blends”

**Vamshi Naarani** (TMFD 2001-2005) “Improvement in lightfastness of reactive ink jet printed fabrics using UV absorbers”

**Vigneshwar Arul Thillainayagam** (TMFD 2001-2004) “Dyeing thermodynamic and kinetics of corn fiber: A comparative study with cotton”

**Shelly Hain** (TMFD 2002-2004) Influence of laundering and drying parameters on PLA fabrics.

**Aruna Pochampally** (TMFD 2001-2003), Pigment printing using wheat gluten binders.

**Stephanie Conko** (TMFD 2002-2003) (Option III, A comparison of non-formaldehyde durable press finishes)

#### **Master Committee:**

Danielle Tucker (TMFD 2014-2016).

Mary Regier (BSE2009-2011) “Zein Nanospheres for Gene Delivery”.

Katie Taylor Frisch (TMFD2009-2010) “Patterns in trees as visual metaphors for human identity”.

Beth Duensing (BSE, 2008-2010) “Controlling nonviral gene delivery through the cell-biomaterial interface”.

Jagdeep Singh (2007-2010).

Gwendolyn Holley (2003-2004), Ageing of markings on quilt.

Yizhen Weng (2002-2003), Decision-making styles and consumer socialization: A study of Chinese urban adolescents’ apparel purchasing behavior.

Gwendolyn Hustvedt (2002-2003), The influence of dyes or natural Occurring pigments on the UPF of cotton exposed to UV-radiation with washing.

Judith James (2001-2002), Intimate topographies. Reading Committee

#### **Postdoc/Visiting Scholar/Research Professor**

Dr. Pengchao Liu (2015-2016). Shanghai, China. Wet-Spun Fibers from Highly Crosslinked Proteins

Dr. Helan Xu (2014-). Wuxi, Jiangshu, China. Biofibers.

Ms. Kaili Song (2014-2016). Shanghai, China. Keratin dissolution and utilizations.

Mr. Gangwei Pan (2013-2015). Wuxi, China. Fibers from agricultural by-products

Mr. Lei Fang (2013-2014). Hired from Atlanta, GA (Originally from Qingdao, Shandong). fiber development and chemical mordifications from stovers of Nebraska crops

Dr. Ruonan Cheng (2013-2014). Shanghai, China. Modifications of cotton with proteins

Dr. Li Shen (2012-2013). Shanghai, China. Kinetics of protein crosslinkages of biopolymers

Ms. Yuyu Mao, (2011-2013). Shanghai, China. Potential market demand of biobased textiles.

Dr. Xue Jiang (2011-2012). Wuxi, China. Biopolymeric materials properties

Mr. Zhen Shi (2011-2013). Wuxi, China. Thermoplastics from agricultural wastes and co-products

Ms. Dan Tao (2010-2011). Wuxi, China. Electrospun fibers as tissue engineering scaffolds

Ms. Lihong Chen (2010-2012). Shanghai, China. Nanospheres for medical and textile applications

Dr. Li Cui (2010-2011),. Wuxi, China. Enzymatic crosslinking of plant proteins

Mr. Enqi Jin (2009-2011). Wuxi, China. Keratin chemical modifications

Dr. Yan Luo (2009-2010). Shanghai, China, Disperse dyeing mechanism

Ms. Chunyan Hu (2008-2010). Shanghai, China, DDGs Chemical Modifications

Dr. Narendra Reddy (2006-2013). Banglor, India, Fiber Sciences.

Dr. David Karst(2007-2008). Virginia, US, Polymer modeling.

Ms. Ying Li (2006-2008). Shanghai, China, Plant Protein Crosslinkings.

Miss Taejung Kim (2005-2007). Seoul, S. Korea, Textile modeling systems.

Mr. Daesik Yun (2004-2006). Seoul, S. Korea, Automatic dyeing systems.

Dr. Abdus Salam (2004-2006). Dhaka, Bangladesh. New dyeing and finishing technologies.

Dr. Wenlong Zhou (2003-2004). Hangzhou, China. Sulfur dyeing technology and new fiber development

Dr. Shin Young Han, (2003-2005). Yangsan City, South Korea. Nanotechnology and antimicrobial finishing

Dr. Rama Bommu (2002-2003). Hyderabad, India. New dyeing technologies and dyeing effluent treatment

### **Institute of Textile Technology**

-From January 2001-August 2001

Professor and Director, Department of Chemical, Energy and Environment

-From July 1998-December 2000

Professor, Senior Research Associate

-From January 1997 to June 1998

Professor, Research Associate

-From March 1995 to December 1995

Professor, Senior Research Engineer

-From January 1994 to March 1995

Associate Professor, Senior Research Engineer

-Teaching:

Graduate Course:

Fiber Technology;

Preparation;

Dyeing;

Finishing

Seminars to engineers and managers from textile, chemical, fiber and related industries:

Principles of Textile Technology:

Color Science and Measurement;

Dyeing Technology;

Finishing Technology

Open Enrollment Courses:

Dyeing Theory and Chemistry;

Textile Finishing

Property and Dyeing of Synthetics

Analytical Techniques for Wet Process Engineers

Milliken Basic Educational Course in Manufacturing and Finishing Textile Products:

Color Science;

Dyeing Theory and Chemistry;

Finishing Theory and Technology.

Milliken Advanced Polyester Dyeing Conference:

Physical & Chemical Properties of Polyesters;

Dyeing of Polyesters;

Jet Dyeing

-Graduate Student Advisement

Major Advisor: (Total MS graduates-19)

Shannan M. Williams (1999-2001) "The Effects of Machine Parameters, Abrasion Surface Type, and Fabric Construction on the Physical Characteristics of 100% Polyester Microdenier Sueded Fabrics".

Shah N. Huda (1999-2001) "A Study of Polylactic Acid's Dyeability, Colorfastness, and Mechanical Properties Compared to Polyester".

William Alex Rapp (1999-2001) "The Use of Computational Fluid Dynamics to Optimize Liquor Flow Profiles in Fabric Beam Dyeing".

Shawn M. Flavin (1999-2001) "The Effect of Hydrophilic Fabric Finish on the Water Vapor Transfer of Knitted Fabrics for Athletic Wear".

Jamison V. Edwards (1999-2001) "Effects of Dye Dispersion Stability on Dyed Fabric

Quality”.

- Chasity D. Allen (1998-2000) “Identification of Dyeing Methods for Reducing the Effect of Barre in Fabrics Containing False Twist Textured Polyester Yarn.”
- Barry(Steve) S. Bowen (1998-2000) “The Effect of Critical Variables in Superba Heat Setting on Stock Dyed Nylon 6,6 Carpet Yarn Properties”.
- Christopher M. Caldwell (1998-2000) “The Effects of Polyurethane Additives on the Mechanical Properties of Durable Press Finished Fabrics”.
- Gene-Paul Jordan (1998-2000) “The Effects of Chemical and Biological Treatment on the Strength Retention of Denim Fabrics Finished with Cellulase”.
- Christopher D. Moses (1997-1999) “Determining Interchange Factor as a Function of Fabric Parameters in Wet-on-Wet Processing”
- Katherine A. Vorlicek(1997-1999) “Influence of Fiber Type and Blend Level on Antibacterial Finish Effectiveness”
- Lucinda M. Corcoran (1997-1998)"Determining the Processing Parameters and Conditions to Apply Antibacterial Finishes on 100% Cotton and 100% Polyester Dyed Knit Fabrics"
- Steven A. Hensley (1997-1998)"Feasibility of Wet-On-Wet Pad/Batch Dyeing 100% of Cotton Knitted Fabrics with Reactive Dyes to Obtain Level Dyeing"
- Jane E. Hughes (1994-1996)"An Investigation of the Mechanism Causing Tendering of Reactive Dyed Cotton after Repeated Commercial Laundering"
- Patrick N. Brock (1994-1995)"Analysis of Surfactant Lubrication Compositions for Sizing 100% Cotton and 50% Polyester/50% Cotton Blend Warps"
- David C. Allegood (1993-1995)"The Effects of Wind Angle, Yarn Tension, and Compression of 100% Polyester 10/2 and 20/2 Packages upon Levelness of Dyeing and Nonbackwound Performance"
- D. Travis Wyatt, II (1993-1995)"An Evaluation of Ultraviolet Light and Hydrogen Peroxide Photochemical Oxidation Technology on the and Decolorization of Textile Dyestuffs"
- Charles A. Haryslak (1993-1995)"Reuse of Hydrolyzed Reactive Dyebaths to Dye Nylon6, Nylon 6,6, and Wool under Acidic Conditions"
- Edward F. Carman III (1994)"The Effect of Various Fixing Agents on the Fastness Properties of Direct Dyed Cotton Twill Fabric"

Minor Advisor

Noah Keller (2014-201?). Minor in textile science, major in materials science and engineering.

Associate Advisor:

- Lucinda A. Jones (1998-1999) “The Impact of Processing Variables on Rotor Spun Yarn Quality Using 100 % Hemp Fibers”.
- Robert T. Habeb (1997) "Protecting the Human Skin through Ultraviolet Radiation Absorbers Applied to 100 % Cotton Apparel".
- Walter Robb Railey (1997) "The Effect of Disperse Dyeing in the Alkaline pH Range on the Reduction of Oligomer Deposition during Package Dyeing of Textured Polyester".
- Lea A. Guay (1994-1995)"Determining the Effect of Various Structure of Vat Dyestuffs on Differential Dye Uptake and Shade Difference of Mercerized and Unmercerized Fabrics"
- Todd J. Scheerer (1993-1995)"The Effects of Finish Lubricant Viscosity and Fiber Crimp on Nylon 6,6 Carpet Yarn Processing and Bulk Properties"

Guest Advisor:

Chenghong Li (1998-2000) “Using Textile as a Stationary Phase for Bioseparation”, Ph.D. Degree Advisory Committee at Purdue University

**Monsanto Company**

-From January 1996 to January 1997

Senior Research Specialist, Growth Technology

-Research

Nylon fiber recycling;

Polymer and fiber processing;

Fiber finishing;

Biomedical Textiles;

Carpet and carpet fiber processing.

### **University of Illinois at Urbana-Champaign**

-From August 1991 to January 1994

-Assistant Professor of Textile Science in the Division of Consumer Sciences, School of Human Resources and Family Studies, College of Agriculture

-Teaching

Graduate: TA499 Thesis Research

(Summer 1992-3; Fall 1992-1; Spring 1993-2; Summer 1993-1; Fall 1993-1)

TA485 High Performance Fibers (Spring 1993-4)

TA482 Textile Finishing: Theory and Development of Dyeing and Finishing

(Fall 1991-4; Fall 1992-3; Fall 1993-5)

TA480 Seminar in Textiles (Fall 1992-8)

Undergrad: TA183 Introduction of Textiles (Spring 1992-52; Spring 1993-35)

-Graduate Student Advisement: (Total MS graduates-6)

Advisor: Tian Lan(1991-1994);"Effect of Crosslinkages on Dyeability of Cotton Fabric"

Erica Tiedemann(1992- 1994, 1992 Janice M. Smith Memorial Fellowship

Recipient);"Fiber-Safe Extraction of Red Mordant Dyes"

Annette Salaam(1992-1993);

Seonghae Kang(1993);

Paula J. Edgcomb(1993-1994);

Chen Guo(1993-1994).

Committee: Bo-Qun Chen(1991-1993, M.Raheel);

Pam Y. Yumen(1991-1993, M.Raheel);

Mansoor Ahmad(1992-1992, M.Raheel).

-Undergraduate Student Advisement:

Fall 1991-11

Spring 1992-11; Fall 1992-20

Spring 1993-12; Fall 1993-14

Elizabeth Hutchens-1993 Naomi R. and Freeman A. Koehler Scholarship

Recipient;

Rosa Li-1993 Mamer Family Scholarship recipient.

-Postdoc/Visiting Scholar

Shiqi Li (1991-1994)

Liming Wang (1993-1994)

### **Purdue University**

-From January 1987 to August 1991

-Teaching

Graduate: "Advanced Fiber Science Laboratory:

Undergraduate: "Introductory Textiles" laboratory

"Environmental Textiles" laboratory

-Teaching assistant (Professor M.R. Ladisch)

Chemical Engineering Senior Research Courses:

"Chemical Engineering Science Research Problem"

(Cellulose Hydrolysis; Bioseparation by A New Kind of Continuous Stationary Phase

Liquid Chromatography),

"Research Chemical Engineering I" & "Research Chemical Engineering II" (Direct Observation of Cellulose



Biotransformations)

-Research:

Textile liquid chromatography(Funded by National Science Foundation);

Cellulose hydrolysis (Funded by United States Department of Agriculture);

Alcohol adsorption on lignocellulose(Funded by Department of Energy, NSF and USDA);

Study of textile dyeing and finishing by liquid chromatography (Funded by David Ross Grant)

#### **Guest Lecturer at other Universities**

-Clemson University, Spring, 1999. Finishing part of Textile Chemistry 458, H458, 658, “Dyeing and Finishing II”.

#### **Honors and Activities**

##### **Student Awards as Major Advisor**

-Bingnan Mu. AATCC Foundation Student Research Support Grant for “Dual-phase solvent system for sustainable reactive dyeing of cotton”. PhD research, 2016-2017 (\$2000).

-Wei Li. AATCC Foundation Student Research Support Grant for “Sorghum protein nanoparticles for controlled release of essential oils from textiles for semi-durable or durable perfuming and antibacterial effects”. PhD research, 2016-2017 (\$900).

-Bingnan Mu, John & Louise Skala Distinguished Graduate Assistant Fellowship. Awarded September, 2016 for 2016-2017 School year (\$5,000).

-Wei Li, John & Louise Skala Distinguished Graduate Assistant Fellowship. Awarded September, 2016 for 2016-2017 School year (\$5,000).

-Zhuanzhan Ma, John & Louise Skala Distinguished Graduate Assistant Fellowship. Awarded September, 2015 for 2015-2016 School year (\$5,000).

-Bingnan Mu, John & Louise Skala Distinguished Graduate Assistant Fellowship. Awarded September, 2015 for 2015-2016 School year (\$5,000).

-Blair Gilkyson, undergraduate mentee. 2015-2016 recipient of the AATCC Foundation West Region Scholarship! This \$2,000 scholarship. <http://www.aatcc.org/fnd/grants-scholarships/west-region-scholarship/>.

-Lisa Tamme. 2014 AATCC Student Chapter Award recipient.

-Madhuri Palakurthi, AATCC Foundation Student Research Support Grant for “**Composites from discarded household textiles for industrial applications**”. MS research, 2014-2015 (\$700).

-Yi Zhao, John & Louise Skala Distinguished Graduate Assistant Fellowship. Awarded September, 2014 for 2014-2015 School year (\$5,000).

-Zhuanzhan Ma, John & Louise Skala Distinguished Graduate Assistant Fellowship. Awarded September, 2014 for 2014-2015 School year (\$5,000).

-Zhuanzhan Ma, AATCC Foundation Student Research Support Grant for “**Quantitative analysis of reactions between gliadin and citric acid**”. PhD research, 2013-2014 (\$500).

-Helan Xu, J.M. Fellowship. Awarded August 15, 2013 (\$500) (one award per year from ARD).

-Yi Zhao, John & Louise Skala Distinguished Graduate Assistant Fellowship. awarded August, 2013 for 2013-2014 School year (\$5,000).

-Jiasong Jiang, John & Louise Skala Distinguished Graduate Assistant Fellowship. awarded August, 2013 for 2013-2014 School year (\$5,000).

-Helan Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship. awarded August, 2013 for 2013-2014 School year (\$5,000).

-Shaobo Cai. AATCC Foundation Student Research Support Grant for “**Novel Electrospun Scaffolds with Fibers Oriented Randomly in Three Dimensions to Closely Mimic the Unique Architectures of Extracellular Matrix in Soft Tissues: Fabrication and Mechanism Study**”, MS research, 2012-2013 (\$1400).

- Helan Xu. AATCC Foundation Student Research Support Grant for “**Novel Regenerated Protein Fibers from Chicken Feather**”, PhD research, 2012-2013 (\$1400).

- Yi Zhao. AATCC Foundation Student Research Support Grant for “**Study on Anti-felting of Wool Fabrics Treated with Keratin Nanoparticles/Enzyme**”, PhD research , 2012-2013 (\$900).

-Yi Zhao, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2012 for 2012-2013 School year (\$5,000).

-Shaobo Cai, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2012 for 2012-2013 School year (\$3,000).

-Helan Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2012 for 2012-2013 School year (\$5,000).

-Yi Zhao & Qiuran Jiang, *Water Stable Plant Protein Film from Camelina for Tissue Engineering*, Won 2<sup>nd</sup> Place of **Medical/Biomedical/Protective Materials and Devices Competition, AATCC 2012 Materials Research Poster Competition, (\$500)**. <http://www.aatcc.org/students/materials/index.htm>

-Yi Zhao, PhD project. "Assessing the Antimicrobial Activity of Curcumin on Cotton Fabrics", was funded by AATCC Foundation Student Research Support Grant, 2011-2012 (\$800).

-Shaobo Cai, MS project. "Water stable and cytocompatible 100% soy protein electrospun fibers for biomedical applications", was funded by AATCC Foundation Student Research Support Grant, 2011-2012 (\$1,300).

-Qiuran Jiang, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2011 for 2011-2012 School year (\$5,000).

-Helan Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2011 for 2011-2012 School year (\$5,000).

-Qiuran Jiang & Wei Li, *Citric Acid Crosslinked Electrospun Zein Fibers for Biomedical Applications*, Won 1<sup>st</sup> Place of **Medical/Biomedical/Protective Materials and Devices Competition, AATCC 2011 Materials Research Poster Competition, (\$1000)**. <http://www.aatcc.org/students/materials/index.htm>

-Helan Xu & Yue Zhang, *Fabrication of Hollow Nanoparticles from Corn Storage Protein Zein for Potential Biomedical Applications*. Won 2<sup>nd</sup> Place of **Medical/Biomedical/Protective Materials and Devices Competition, AATCC 2011 Materials Research Poster Competition, (\$500)**. <http://www.aatcc.org/students/materials/index.htm>

-Yue Zhang, MS project "Developing Biodegradable Protein Nanoparticles for Sorption of Dyes in Waste Water" was funded by AATCC Foundation Student Research Support Grant, 2010-2011 (\$1,000).

-Qiuran Jiang, PhD project "Water stable and biocompatible electrospun non-woven matrices from collagen for medical applications", was funded by AATCC Foundation Student Research Support Grant, 2010-2011 (\$1,100).

-Helan Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2010 for 2010-2011 School year (\$5,000).

-Helan Xu. PhD project "Fabrication of hollow nanocapsules from zein by a phase-separation method and investigation of their applications in textiles" was funded by AATCC Foundation Student Research Support Grant, 2009-2010 (\$2,100).

-Qiuran Jiang, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2009 for 2009-2010 School year (\$5,000).

-Helan Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded August, 2009 for 2009-2010 School year (\$5,000).

-Karlin Warner. MS project "Low temperature catalyst free wet crosslinking of silk using poly(carboxylic acids)" was funded by AATCC Foundation Student Research Support Grant, 2008-2009 (\$1000).

-Yi Zou, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded July, 2008 for 2008-2009 School year (\$3,000).

-Weijie Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded July, 2008 for 2008-2009 School year (\$5,000).

-Narendra Reddy, Honorable Mention in recognition of his accomplishments in Doctoral Dissertation by the Graduate Studies of the University of Nebraska-Lincoln, February 6, 2008.

-Yi Zou. MS project "Biodegradable protein based composites for automotive headliner and other applications" was funded by AATCC Foundation Student Research Support Grant, 2007-2008 (\$1700).

-Weijie Xu, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded July, 2007 for 2007-2008 School year (\$5,000).

-Shah Huda, John & Louise Skala Distinguished Graduate Assistant Fellowship awarded July, 2007 for 2007-2008 School year (\$5,000).

- Karlin Warner (Helms), Outstanding Seniors Award, College of Education and Human Sciences, April, 2007.
- Narendra Reddy: Dissertation research project: "Bleaching kenaf and cornhusk fibers" was funded by AATCC Foundation Student Research Support Grant 2006-2007 (\$800).
- Digvijay Nama: MS Thesis research project: "Study on PLA/PP polyblend fibers: structure, properties, dyeing behavior and biodegradability" was funded by AATCC Foundation Student Research Support Grant, 2006-2007 (\$900).
- David Karst: Widaman Distinguished Graduate Assistant Award, 2006. (\$2000)
- Michelle Hain Thesis Research Project, "Influence of laundering and drying conditions on PLA fabrics" was funded by AATCC Foundation, 2004-2005 \$600.
- Alex Rapp, first place winner of the 2001 AATCC Herman and Myrtle Goldstein graduate student paper competition. "The use of computational fluid dynamics to evaluate liquor flow profiles in fabric beam dyeing".

### **Teaching Award**

- Faculty Student Mentoring Award of the College of Education and Human Science (one per year), April 20, 2007.
- Outstanding Instructor at the University of Illinois (An Incomplete List of Teachers Ranked as Excellent by Their Students): TA480, fall 1992

### **Research Awards**

- **Research Award, Gamma Sigma Delta (The Honor Society of Agriculture)** Nebraska Chapter 2011 (awarded January, 2012).
- Charles Bessey Professorship**, March, 2007(Renewed 2012; 2017) (University Distinguished Professorship).
- "Big 12 Rising Star" Award**. Presented by the Big 12 Center for Economic Development, Innovation and Commercialization (CEDIC) at the Big 12 CEDIC Innovation and Capital Formation Conference, March 1, 2007, Kauffman Foundation Conference Center, Kansas City, MO. Only one faculty member of each of the Big 12 Universities was awarded.
- National Textile Center, Second Prize Winning Poster, The dyeable polypropylene via nanotechnology, by Fan, Q., Dar, Y., Ugbolue, S., and Yang, Y, 10<sup>th</sup> Annual Forum, Feb. 10-12, 2002, Charlotte, NC.
- Arnold O. Beckman Research Award, 1992(University of Illinois):A Study of Structure and Dyeing Properties of Textiles by Liquid Chromatography over Packed Bed of Fabrics.
- Co-inventor (with C. Wang and G. Li) of the "Third Class Award of Scientific and Technological Achievements" offered by the Ministry of Textile Industry of China, 1984: "The Synthesis and Application of Anchor 105 Water Soluble Polyurethane Resins"

### **Scientific Board Served**

- Member of the Scientific Board of the Key Laboratory of Science and Technology of Eco-Textiles, Ministry of Education, China (2012-).
- Member of the Board of Directors of AATCC (American Association of Textile Chemists and Colorists) (2010-2012)
- Member of the Board of the Academic Affairs of Jiangnan University, China (2008-)
- Member of the Board of Engineering and Technology of the Chinese National Engineering Research Center for Dyeing and Finishing of Textiles (2005-).

### **Editorial Board Served**

- Member, Editorial Board, **International Journal of Polymer Science**. (2014-).
- Associate Editor, **AATCC Journal of Research (2013-)**
- Member, Editorial Board, **Journal of Microbial and Biochemical Technology**. (2010-2015).
- Member, Editorial Board, **Journal of Jiangnan University, Natural Science Edition**. (2008-2015).

### **Guest Professorships**

- ‘State Specially Recruited Expert’ of China. The highest title of honor established by China for the high level experts introduced from overseas. (January 2013, No. 748)
- Distinguished Professor, The Recruitment Program of Global Experts of China, Donghua University, Shanghai, China (3.2011-2.2014); Jiangnan University, Jiangsu, China (3.2014-2, 2019).
- Guest Professor, The “111 Project” entitled “Advanced Fabrication Technology and Science of Fiber Materials, No. 111-2-04” of the State Key Lab of Modification of Chemical Fibers and Polymer Materials (SKLFPM) and the College of Materials Science & Engineering of Donghua University, China. (2008-). (This project was approved by the Ministry of Education of China, and funded by the Chinese Government. I am one of the twelve guest professors from six foreign countries together with fifteen professors from Donghua University. The objective of the project is to facilitate the development of advanced fiber materials fabrication and application and upgrade the academic reputation of Donghua University in fiber materials field. [http://111fiber.dhu.edu.cn/APTF\\_E/index.html](http://111fiber.dhu.edu.cn/APTF_E/index.html)).
- Changjiang Scholar Lecture Professor at Jiangnan University, Wuxi, China (2008-2011)
- Distinguished Guest Professor at Jiangnan University, Wuxi, China (2011-2014 )
- Guest Professor at Jiangnan University, Wuxi, China (2005-2008)
- Guest Professor at Zhejiang Sci-Tech University, Hangzhou, China (2005-)
- Adjunct Professor at the College of Chemistry and Chemical Engineering, Donghua University, Shanghai, China (2005-2011).

## **National/International Research Services**

### **International Scholarly Evaluations**

- international technical expert, invited by the Science & Engineering Research Council (SERC), which is part of the Agency for Science, Technology and Research (A\*STAR) in Singapore, to evaluate a proposal titled “Development of Advanced Material using Poultry Feather Waste (16283057).” January. 2017.
- International expert reviewer invited by the Research Grants Council (RGC) of Hong Kong to evaluate a research proposal titled “Green enhancement of silk fibers by photocatalytic dual crosslinking”. March, 2016.
- International expert reviewer invited by the Ministry of Education of Shanghai. Assessment of Disciplinary Construction of Type I Peak Discipline: Textile Science and Engineering at Donghua University. March, 2015. 上海教委国际评估专家。评估东华大学纺织科学与工程 I 类高峰学科建设申报书。 March, 2015
- Expert reviewer. Chinese Ministry of Education and Center for Post Graduate Education. Dissertation review. 教育部学位与研究生教育发展中心通讯评议专家.对部分学位授予单位答辩前送审的学位论文进行通讯评议。2015
  1. Donghua University, Textile Science and engineering. Fatigue behavior and structural effects of 3-D angle-interlock woven composites undergoing three-point bending cyclic loading. (东华大学, 纺织科学与工程, 三维角联锁机织复合材料三点弯曲疲劳性能与结构效应;)
  2. Donghua University, Textile Science and engineering. SITE-SPECIFIC PROTEIN LABELING AND MODIFICATIONS USING PROTEIN SPLICING. (东华大学, 纺织科学与工程, 利用蛋白质反式剪接技术位点特异性修饰蛋白质).
- Expert reviewer. Chinese Ministry of Education and Center for Post Graduate Education. Dissertation review. 教育部学位与研究生教育发展中心通讯评议专家.对部分学位授予单位答辩前送审的学位论文进行通讯评议。2014 (Donghua University, Textile Science and engineering. 3D Free Surface Electrospinning Technology-its industrial production & application.). 2014 (东华大学, 纺织科学与工程, 三维自由液面静电纺丝技术及其产业化研究与应用.)
- Expert reviewer. Outstanding Young Researcher Support Program of China (15 applicants-2014) 中国青年拔尖人才支持计划 通讯评审专家 (第二批-2014 共 15 人).

-Member of the Expert Committee of Donghua University Faculty Recruitment 教师队伍建设专家委员会. 2010-2014.

-Expert Reviewer for the 2012 Excellent Research Awards of National Higher Education of the Ministry of Education of China (教育部 2012 年度高等学校科学研究优秀成果奖网络评审专家). 9-12. A total of nine applications were evaluated.

-Expert reviewer for the Chinese National 2011 Innovation Program in Textile Processing Technology(2011 创新工程的评审专家;纺织品加工技术领域) 2012-

-Expert reviewer for the Chinese National Young Scholar Program (“青年千人计划”通信评审专家). 2011-2; 2013-1 (第 5 批) ; 2014-1 (第 6 批) ; 2016-1

-Chair, Expert Review Team, Examination on the Accomplishment of ‘Research on Spectrum-Fingerprint Anti-Counterfeiting Fibers’, a Grant Research Project funded by the Ministry of Education of China (309016).. PI Minqiao Ge. Oct. 2008 to June 2011. Examined on March 24, 2012.

-International Reviewer on the primary program of “advanced fibers and composites” for the College of Materials Science and Engineering at Donghua University in Shanghai, China. International leaders in the field are invited to conduct such reviews for the ‘211’ primary programs of the State Key Universities in China. March, 2012.

-The Chinese Ministry of Education, Evaluator for the 2010 Chinese Higher Education PhD Programs Research Fund Applications. May, 2010. A total of seven applications evaluated.

-The Chinese Ministry of Education, Evaluator for the 2009 Chinese Higher Education Excellent Research Achievements Awards in Science and Technology. September, 2009. A total of six applications evaluated.

-Expert Examiner for the Chang Jiang Scholars Program of the Ministry of Education of China. Engineering Group 2. “长江学者奖励计划”专家评审会议 , 工程科学二组 评审专家. Beijing, China. June 18, 2013.

-International Examiner for the Chang Jiang Scholars Program of the Ministry of Education of China. This program selects the top tier professors for the Chinese national universities.

Donghua University 8-16  
Zhejiang Sci-Tech University 8-16  
Anhui Polytechnic University 8-16  
Donghua University 9-14  
Zhejiang Sci-Tech University 8-14  
Donghua University 2-13  
Zhejiang Sci-Tech University 1-13  
Zhejiang Sci-Tech University 1-10  
Donghua University 1-09  
South China University of Technology 1-09

#### **National/International Research Panel Served**

-The U.S. Department of Agriculture (USDA) and the U.S. Department of Energy (DOE) fiscal year 2007 joint USDA/DOE Biomass Research and Development Initiative solicitation Technical Merit Review. Washington, D.C., August 7-10, 2007.

-United States Department of Agriculture, Enhancing Value and Use of Agricultural and Forest Products

Panel, National Research Initiative Competitive Grants Program, Washington, D.C., February 1994.

#### **USDA Multi-State Research Committee Served**

-S1054 Committee, Biobased Fibrous Materials and Cleaner Technologies for a Sustainable and Environmentally Responsible Textile Industry. Proposal Editor-in-Chief (2011-2012). Member (1.2013-9.2018).

-S-1026 Committee, Textile Materials and Technologies Addressing Energy, Health and Other National Security Issues. Impact Statement for the Closing of the Project. Editor (9-2013)

-S-1026 Committee, Textile Materials and Technologies Addressing Energy, Health and Other National Security Issues. Member (2007-2012).

-S1002 Committee, New technologies for the utilization of textile materials. Member (2002-2007) Secretary (2005), Chair (2006).

#### **National/International Associations Served**

-Member, AATCC e-journal task force committee (2013)

-Member, AATCC C7 Publications Committee (2017-2022).

-Member of the Committee of AATCC Henry E. Millson Award for Invention (2013-).

- Award Committee, Gamma Sigma Delta-Nebraska (The Honor Society of Agriculture) (Member 2012-2013; Chair 2014)

-At-large member of the Chemical Applications Interest Group, AATCC (1-2011-12-2012).

-Chair, AATCC Foundation Research Grant Program Review Board (2005-)

-AATCC, Midwest Section

Secretary (2003-2004)

Vice Chairman (2004-2005)

Chairman (2005-2011)

-Faculty Advisor, AATCC Student Chapter at UNL (2003-)

-Member, AATCC Education Advisory Board (2003-)

-Judge of the Herman and Myrtle Goldstein Student Paper Competition for AATCC International Conference and Exhibition (2004)

#### **National and International Conferences Organized and Chaired**

-Chair, Plenary Speech. June 11. 9:15-11:40 am. The 13th International Wool Research Conference (IWRC-13) and AATCC Sustainability Symposium (AATCC-SS). Hangzhou, China. June 10-14, 2015

-Member of Science & Technology Committee, AATCC Sustainability Symposium (AATCC-SS). Hangzhou, China. June 10-14, 2015

-Chair, Plenary Lectures. May27. 8:30-10:00 am. The Fiber Society's Spring 2015 Conference (FS Spring 2015) in conjunction with the 2015 International Conference on Advanced Fibers and Polymer Materials (ICAFPM 2015 Functional Fibers and Textiles). Shanghai, China. May 24-27, 2015.

-Symposium Organizer, CELL-Division (Division of Cellulose and Renewable Materials) Symposium 'Light-Weight Materials from Biopolymers'. **246<sup>th</sup> American Chemical Society National Meeting**, Indianapolis, IN, September 8-12, 2013. The symposium has 16 papers and two sessions (morning-8 papers; afternoon-8papers on September 9, 2013.

-Moderator, first session on 'Light-Weight Materials from Biopolymers', for the CELL-Division (Division of Cellulose and Renewable Materials) Symposium 'Light-Weight Materials from Biopolymers'. 8:00am to 12:00pm on September 9<sup>th</sup>, 2013. **246<sup>th</sup> American Chemical Society National Meeting**. Indianapolis, IN, September 8-12, 2013.

-Co-Chair of the Organizing Committee of **The 1<sup>st</sup> International Conference on Marketplace Advantage through Innovative Processes, Testing, and Quality Control**, Shanghai, China, June 7-8, 2012. This is a conference co-organized among AATCC, SDC-China and Donghua University.

-Chair, Keynote Speech Session, **The 1<sup>st</sup> International Conference on Marketplace Advantage through Innovative Processes, Testing, and Quality Control**, Shanghai, China, 9:00 -11:30am, June 7, 2012. This is a conference co-organized among AATCC, SDC-China and Donghua University.

-Member of Academic Committee. 2011 International Conference on Advanced Fibers and Polymer Materials (ICAFPM 2011). August 15-17, 2011, Shanghai, China.

-Chair, Section 2: Functional and Smart Fibers from Sustainable Resources, **2011 International Conference on Advanced Fibers and Polymer Materials (ICAFPM 2011)**. August 17, 2011, Shanghai, China.

-Chair of the Plenary Speech Section 3, **The International Conference on Eco-Dyeing/Finishing and Green Chemistry (EDFGC)**, June 8-12, 2011, Hangzhou, China.

-Member of the Scientific Committee, **12th International Wool Research Conference**, Shanghai, China. October 19-22, 2010. The theme of IWRC 2010 is: "Low-carbon Era, Ecological Wool, Creative Tech, Better Life".

-Chair of Stream C at **12th International Wool Research Conference**, Shanghai, China. October 20, 2010. The theme of IWRC 2010 is: "Low-carbon Era, Ecological Wool, Creative Tech, Better Life".

-Member of the International Advisory Board, **BioEnvironmental Polymer Society (BEPS)** Meeting in Toronto, Canada (Wednesday, Oct. 13 – Saturday, Oct. 16, 2010). The main theme of the meeting is "Polymers and the Environment-Emerging Green Technologies and Science".

-Chair, Textile Biomedical Engineering Session. **3rd International Symposium of Textile Bioengineering and Informatics, Greener Textiles, Healthier Life**. Shanghai, China. May 29, 2010.

-Member of the International academic award evaluation committee, **3rd International Symposium of Textile Bioengineering and Informatics, Greener Textiles, Healthier Life**. Shanghai, China. May 28-30, 2010.

-Member of the International Scientific Committee. **3rd International Symposium of Textile Bioengineering and Informatics, Greener Textiles, Healthier Life**. Shanghai, China. May 28-30, 2010.

-Member of the Steering Committee for the Chemical Applications Track of AATCC's International Conference (IC), May 18-20, 2010, Georgia World Conference Center, Atlanta, Ga., USA.

-Chair, Section C: Functional and Smart Fibers and Films, **International Conference on Advanced Fibers and Polymer Materials (ICAFPM 2009)**. Shanghai, china, October 22, 2009.

-Member of Academic Committee, **International Conference on Advanced Fibers and Polymer Materials ICAFP 2009**). Shanghai, china, October 21-24, 2009.

-Chair of the Organizing Committee & Member of the Scientific Advisory Committee, **The International Conference on Sustainable Textiles**, Wuxi, China. October 21-24, 2008.

-Chair of the Keynote presentations, **The International Conference on Sustainable Textiles**, Wuxi, China. October 22, 2008.

-Chair of Session B, 9:00-10:15am, **The International Conference on Sustainable Textiles**, Wuxi, China, October 23, 2008.

-Chair of Keynote Speeches, 1:30-2:30pm, Oct. 16, 2008, **International Conference on Advanced Textile Materials & Manufacturing Technology**, Hangzhou, China.

-Chair, the session on Biochemistry of Carbohydrates, for the Carbohydrate division 2:00pm to 4:30pm. **232 American Chemical Society National Meeting**, San Francisco, CA., September 13, 2006.

-Scientific Board Member of the 3<sup>rd</sup> Central European Conference on Fibre-Grade Polymers, Chemical Fibres and Special Textiles, 10-12, September 2003, Maribor, Slovenia

### Major Recognitions of Researches

1. Anna Brones. One Man's Food Waste Is Another's Sustainable Fashion Statement. **Civil Eats**. **March 9, 2016**. <http://civileats.com/2016/03/09/one-mans-food-waste-is-anothers-sustainable-fashion/>
2. **ACS (American Chemical Society) News Service Weekly PressPac** (press package)- **Jan. 27, 2016** **Creating 'greener' wrinkle-resistant cotton fabric**, *ACS Sustainable Chemistry & Engineering*". <http://www.acs.org/content/acs/en/pressroom/presspacs/2016/acs-presspac-january-27-2016/creating-greener-wrinkle-resistant-cotton-fabric.html>  
The American Chemical Society (ACS) News Service PressPac reports major discoveries in fields ranging from astronomy to zoology, which are reported in more than 50 peer reviewed journals of the American Chemical Society. Every year over 100,000 authors and their research teams from the community of scientists worldwide submit their work for consideration in these journals. With more than 158,000 members, ACS is the world's largest scientific society.
3. "Protecting Nanoparticles Carrying Therapeutic Drugs", p. 28, in **Research Annual Report 2014-2015, Office of Research & Economic Development, University of Nebraska-Lincoln**. Our research was one of the 22 research projects reported in this year's annual report. 2015 (**2014-2015 UNL Research Report**)
4. Team customizes nanoparticles to better transport therapeutic drugs. **UNL Today**, front page. by Scott Schrage, University Communications. <<http://news.unl.edu/newsrooms/unltoday/>>. (<http://news.unl.edu/newsrooms/unltoday/article/team-customizes-nanoparticles-to-better-transport-therapeutic-drugs/>). March 4, 2015.
5. Yang, UNMC duo partner on hernia surgery project. by Troy Fedderson. **Scarlet**, **24(5)**. p. 7. May 22, 2014. <http://scarlet.unl.edu/?p=11730>
6. Grant launches project between Yang, UNMC researchers. By Troy Fedderson, University Communications. **UNL Today** 5/16/2014. <http://news.unl.edu/newsrooms/unltoday/article/grant-launches-project-between-yang-unmc-researchers/>
7. Farm Waste Fashionistas. *Video Story* by [Gary Hochman](#), *Producer for QUEST Nebraska* on Mar 25, 2014. <[http://science.kqed.org/quest/video/farm-waste-fashionistas/?utm\\_source=rss&utm\\_medium=rss&utm\\_campaign=farm-waste-fashionistas](http://science.kqed.org/quest/video/farm-waste-fashionistas/?utm_source=rss&utm_medium=rss&utm_campaign=farm-waste-fashionistas)>  
NET Television the TV episode, QUEST: Innovation, "Farm Waste Fashionistas" on Wednesday, May 7 at 10pm and Friday, May 9<sup>th</sup>, 2014 at 7:30pm. QUEST is a collaboration of 6 PBS/NPR stations, including NET Television, KQED (San Francisco), KCTS (Seattle), WPT (Madison, WI), ideastream (Cleveland), and UNC Television (Durham, NC). Some of these stations will be broadcasting this program in April. See video and online article at <http://science.kqed.org/quest/video/farm-waste-fashionistas/>.
8. Ronnie Green, Vice President of Nebraska University System, Vice Chancellor of University of Nebraska-Lincoln, and chief administrator of Institute of Agriculture and Natural Resources. **KRVN radio** interview- **Bio-fibers initiative**. Interview time: 9:30 a.m. Wednesday, **Nov. 27, 2013**. Airtime: Saturday, Nov. 30, 2013
9. **UNL introduces Bio-Fiber Development Laboratory**. By Tammy Bain, Daily Nebraskan. **November 14, 2013**. Page 3. [http://www.dailynebraskan.com/news/article\\_4ad20640-4ce8-11e3-9a1b-001a4bcf6878.html](http://www.dailynebraskan.com/news/article_4ad20640-4ce8-11e3-9a1b-001a4bcf6878.html)
10. **Bioplastics from chicken feathers**, bioplastics MAGAZINE 7(4). **July/August 2012. Page 31**. <http://www.bioplasticsmagazine.com/en/online-archive/issues2012/201204.php>
11. Jacy Marmaduke, Corn of the Loom, Researchers seek funding to make clothing with corn fiber. Daily Nebraskan. 111(111), pp1,3, Feb. 27, 2012. <http://www.dailynebraskan.com/news/researchers-seek->



- [funding-to-make-clothing-with-corn-fiber-1.2707703](#)
12. Jyllian Kemsley 'Fried Bubblegum, Poultry Plastic', Newscrips, *Chemical & Engineering News*, **89**(39) 48(2011). <http://pubs.acs.org/cen/newscrips/89/8939newscrips.html>
  13. Mohammad Kashif, Chicken feathers suggested as basis for plastics, *BBC*, 31-3-2011  
<http://www.bbc.co.uk/news/science-environment-12904777>
  14. Katharine Gammon, New process turns waste chicken feathers into biodegradable plastic, *Science News Daily*, 05-4-2011  
<http://www.physorg.com/news/2011-04-chicken-feathers-biodegradable-plastic.html>
  15. Richard A. Lovett, Don't cluck: Chicken-feathers could be the new wonder stuff, *Nature News Blog*, 31-3-2011  
[http://blogs.nature.com/news/2011/03/dont\\_cluck\\_chickenfeathers\\_cou.html](http://blogs.nature.com/news/2011/03/dont_cluck_chickenfeathers_cou.html)
  16. Nicole Wilson, Biodegradable Plastic made from Chicken Feathers, *Scientific Discovery*, 31-3-2011  
[http://www.bestsyndication.com/?q=20110331\\_chicken\\_feathers\\_biodegradeable\\_plastics.htm](http://www.bestsyndication.com/?q=20110331_chicken_feathers_biodegradeable_plastics.htm)
  17. Jamie Williamson, Waste chicken feathers could be used to produce biodegradable plastics, *TopNews.In*, 03-4-2011  
<http://www.topnews.in/usa/waste-chicken-feathers-could-be-used-produce-biodegradable-plastics-2882>
  18. Ben Hines, Plastic Made From Chicken Feathers: Eco Friendly or Creepy, *Tiny Green Bubble*, 06-4-2011  
<http://tinygreenbubble.com/eco/environmental/item/1722-plastic-made-from-chicken-feathers-eco-friendly-or-creepy>
  19. Carl Holm, Degradable plastics get chook injection, *ABC*, 01-4-2011  
<http://www.abc.net.au/science/articles/2011/04/01/3178910.htm>
  20. Staff writers in Anaheim, Advance Toward Making Biodegradable Plastics From Waste Chicken Features, *Bio Fuel Daily*, 06-4-2011  
[http://www.biofueldaily.com/reports/Advance\\_Toward\\_Making\\_Biodegradable\\_Plastics\\_From\\_Waste\\_Chicken\\_Features\\_999.html](http://www.biofueldaily.com/reports/Advance_Toward_Making_Biodegradable_Plastics_From_Waste_Chicken_Features_999.html)
  21. **ACS (American Chemical Society) News Service Weekly PressPac** (press package) "Advance toward making biodegradable plastics from waste chicken feathers". **March 31, 2011.**  
[http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP\\_ARTICLEMAIN&node\\_id=222&content\\_id=CNBP\\_026969&use\\_sec=true&sec\\_url\\_var=region1&uuid=763c7df1-54c4-4db8-86f2-a162bb66b793](http://portal.acs.org/portal/acs/corg/content?nfpb=true&pageLabel=PP_ARTICLEMAIN&node_id=222&content_id=CNBP_026969&use_sec=true&sec_url_var=region1&uuid=763c7df1-54c4-4db8-86f2-a162bb66b793)
  22. Art Hovey, *Lincoln Journal Star*, UNL Researcher Linking Ethanol, Medical Prospects, Front page story feathers our work with photo, March 24, 2010.  
[http://www.journalstar.com/news/local/education/article\\_51c4cf2a-36c9-11df-85f5-001cc4c03286.html?mode=story](http://www.journalstar.com/news/local/education/article_51c4cf2a-36c9-11df-85f5-001cc4c03286.html?mode=story)
  23. Our work on using agricultural byproducts for fibers, "Going 'Green' with Ag Byproduct Fibers", is one of the 25 researches featured in the 2006-2007 Annual Report (page 17), **Office of Research & Graduate Studies, University of Nebraska-Lincoln.**
  24. **Novel Protein Fibers from Wheat Gluten** (Narendra Reddy and Yiqi Yang, *Biomacromolecules*; **2007**; 8(2) pp 638 – 643.) was the top 14 **most accessed articles of Biomacromolecules**, Jan-March, 2007  
[http://pubs.acs.org/journals/bomaf6/promo/most/most\\_accessed/2007q1.html](http://pubs.acs.org/journals/bomaf6/promo/most/most_accessed/2007q1.html)
  25. Our work on Biofibers and their applications in textiles is included as one of the major impacts in the category of Agriculture, Food Production, and Natural Resource Systems in the Executive Summary (page XV), and in the major report (pages 66-71) in "**A generator of Positive Economic Impacts for Nebraska**" by Battelle, February 2007.
  26. *Science*, "Agri-Couture", **Vol 313, p.1711**, 22 September, 2006.  
<http://www.sciencemag.org/cgi/reprint/313/5794/1711d.pdf>
  27. *Time*, Apparel Takes Root, Thursday, Mar. 01, 2007 By Lisa McLaughlin,  
<http://www.time.com/time/magazine/article/0,9171,1595260,00.html>.
  28. Named **Charles Bessey Professor**, March, 2007 (University wide Named Professorship).
  29. "**Big 12 Rising Star**" Award. Presented by the Big 12 Center for Economic Development, Innovation and Commercialization (CEDIC) at the the Big 12 CEDIC Innovation and Capital Formation Conference, March 1, 2007, Kauffman Foundation Conference Center, Kansas City, MO. One such award to a faculty member of each of the Big 12 Universities.
  30. **ACS (American Chemical Society) News Service Weekly PressPac** (press package)- **Jan. 24, 2007**

“ARTICLE#3 **Spinning wheat**, *Biomacromolecules*”.

<http://acswebapplications.acs.org/applications/ccs/application/index.cfm?pressreleaseid=2756&categoryid=33>

The American Chemical Society (ACS) News Service PressPac reports major discoveries in fields ranging from astronomy to zoology, which are reported in the 34 peer reviewed journals of the American Chemical Society. With more than 158,000 members, ACS is the world’s largest scientific society.

31. **New York Times**, Science Times, A Wheat-Based Wool? by Henry Fountain, D3, 2-6-07.  
[http://www.nytimes.com/2007/02/06/science/06observ.html?\\_r=2&oref=slogin&oref=slogin](http://www.nytimes.com/2007/02/06/science/06observ.html?_r=2&oref=slogin&oref=slogin)
32. **ACS (American Chemical Society) News Service Weekly PressPac** (press package) “ARTICLE #8 EMBARGOED FOR: Monday, Sept. 11, 6:00 p.m., EDT: Of rice and hen: Fashions from the farm”. **September 6, 2006**. The Sept. 6 and Sept. 13 issues of the ACS News Service Weekly PressPac are special editions. ACS has a selection of 20 research highlights from almost 10,000 scientific presentations for the ACS national meeting in San Francisco from September 10 to 14, 2006.
33. **Chemical and Engineering News (C&EN)**, Farming Fashion, **84**(44) p. 64. October 30, 2006.  
<http://pubs.acs.org/isubscribe/journals/cen/84/i44/html/8444newscrip.html>
34. **Times**, “The Curse of the Deadly Hotlab. Coming soon to a town near you?” **Science Notebook by Anjana Ahuja**, Oct. 2, 2006. <http://www.timesonline.co.uk/article/0,,6-2384208,00.html>
35. Cover story of **Green Chemistry**, **7**(4),(2005)for our research on cornhusk fibers.
36. **Science News**, Rice-straw sweaters, **By Aimee Cunningham** Textile scientists have for the first time extracted from rice straw natural cellulose fibers that can be spun into yarn. *Vol.170, No.14*, Sept.30, 2006, p. 222. <http://www.sciencenews.org/articles/20060930/note13ref.asp>
37. **ABC News in Science**, “Chicken feathers make cool threads” Monday, 2 October 2006.  
<http://www.abc.net.au/science/news/stories/2006/1753362.htm>
38. **Fox News**. Fabrics Made From Chicken Feathers, Rice Straw. By Charles Q. Choi. Wednesday, September 13, 2006. <http://www.foxnews.com/story/0,2933,213509,00.html>
39. **Nebraska Public Radio Station 91.1** reported our rice straw and chicken feather fibers on September 20, and 25, 2006.
40. **Discovery Channel News**. “Future Fabrics Made of Chicken Feathers” by Tracy Staedter. September 29,2006. <http://dsc.discovery.com/news/news.html?dcitc=w99-502-ah-0045> or [http://dsc.discovery.com/news/2006/09/29/chickenclothes\\_tec.html?category=technology&guid=20060929111500&&clik=news\\_main](http://dsc.discovery.com/news/2006/09/29/chickenclothes_tec.html?category=technology&guid=20060929111500&&clik=news_main)
41. **BBC-London live interview** on our work on chicken feather and rice straw fibers at 9:20 pm CST on September 19, 2006.
42. **Channel 7-Omaha** report on our work on chicken feather and rice straw fibers at 10 pm CST on September 20, 2006.
43. **Nebraska Magazine**, Winter 2006, Vol. 102(4), “Fashions from the Field”, P. 9.
44. **The Scarlet**, cover story, “Fashions from the field Researchers eye ag products for fiber options”, and “Rice Research”, **16**(26), October 12, 2006. <http://ucommxsrv1.unl.edu/scarlet/public/FMPPro?-db=scarletstory&-format=storydetail.htm&-lay=public&-op=eq&storyid=732596S36288X&-max=1&-find=>
45. Listed as Number 2 of the six researches in Dean Darrel Nelson’s Research Highlights in the **118<sup>th</sup> Annual Report (July 2003-June 2004) of Agricultural Research Division**, p.5 March 2005.
46. “Creating wearable corn-husks, that is.” **Endeavors, Highlights of University of Nebraska-Lincoln Agricultural Research Division research 2004-05, p. 2.**
47. “Cellulose from cornhusks yields textile-grade fiber”, p. 27, **Annual Report 2003/2004, Office of Research & Graduate Studies, University of Nebraska-Lincoln.**
48. **Scarlet Year in Review 2003-2004**,September 9, 2004. P. 5. Cornhusk garment.
49. **As the featured professor at the first football game for the season against Western Illinois University** on September 4, 2004, showcase program (cornhusk textiles).
50. Cornhusk interview with Charity Nebbe, the host of the programs *Stateside*, and *All things considered* on Michigan Radio, an NPR affiliate at the University of Michigan. June 1, 2004. Aired on Michigan Radio.
51. **UNL Web Home Page**, May 10-15, 2004, “Crop waste makes a nice sweater: Yarn from cornhusks yields benefits to environment, economy”.

52. **The Scarlet** Cover Story, “Textiles from husks may boost value of Nebraska’s top crop: Cornhusk clothing. Red sweaters abound in Big Red country, but Yiqi Yang’s is unique: It’s made of cornhusks”, by Linda Ulrich, IANR News Service. May 6, 2004.
53. **ABC Channel 7 Eyewitness News**. “From corn husks to clothes”, 3-23-04  
[http://abclocal.go.com/wabc/news/wabc\\_03232004\\_bb\\_husks.html](http://abclocal.go.com/wabc/news/wabc_03232004_bb_husks.html).
54. **Omaha WorldHerald** March 28, 2004. “It’s not a corny idea: fabric from husks”.
55. **Nebraska Magazine**, Summer 2004, Vol. 100(2). “Cornhuskers wearing cornhusks?”, P. 11.
56. **KMA Radio AM960** noon 3-26-04. Dean Adkins reported husk fibers with Q&A with Yiqi Yang.
57. **Vice chancellor John Owen’s weekly talk on KRVN radio**. KRVN (880 AM) is out of Lexington, Neb., and has largely an agricultural audience. The vice chancellor speaks at 9:30 4-17-04.
58. **Paul Harvey -- morning and noon programs Monday, March 22, 2004**  
Go to <http://www.paulharvey.com/> -- click on Monday’s morning or noon programs.
59. **USA Today**, March 22, 2004. [Scientist develops textile fibers from cornhusks](#).
60. **Midwest AG Journal** March 29, 2004 Page 10-B. “Turning husks into textiles could boost corn’s value”.
61. **WBBM, IL**, March 23, 2004. [New Trend: Cornhusk Shirts?](#)
62. **CBS New York, NY**, March 23, 2004. [New Trend: Cornhusk Shirts?](#)
63. **WCCO, MN**, March 23, 2004. [New Trend: Cornhusk Shirts?](#)
64. **CNN International**, World, March 23, 2004. [The feel of cornhusks](#)
65. **CNN**, March 23, 2004. [The feel of cornhusks](#)
66. USDA, Cooperative State Research, Education, and Extension Service (CSREES) “Turning husks into textiles could boost corn’s value”. 2-3-2004.  
<http://www.csrees.usda.gov/newsroom/news/technology/news0004.html>
67. **Channel 7** (Omaha) 3-18-04, 10 pm News feature Report on corn husk fibers.
68. **Channel 8** (Iowa) 3-18-04. Sweater Gives New Meaning To ‘Cash Crop’.
69. **Today’s Ag**. Home Page 03/18/2004. **Clothes out of Corn?**  
<http://www.todaysag.com/NewsDetail12.cfm?Id=36,1999>.
70. **Annual Agricultural Builders meeting**, Jan. 14, 2004 in the morning at the Cornhusker Hotel. Interview on video tape about cornhusk fiber for the annual Agricultural Builders meeting, and attend the meeting to answer questions. This is an important event for IANR to serve the ag industry of Nebraska.
71. **UNL Web Front Page** feature report, Nov. 14-16, 2003. “Procter and Gamble donates textile technology to UNL.
72. **As the featured professor at the Chancellor’s Tailgate event** (before the K-State game on Nov. 15, 2003).
73. **As the featured professor at the K-State game** on Nov. 15, 2003, showcase program (Sulfur dye protection).

## Consultation

### *U.S.A.*

Advanced BioAdjuvants, LLC; Avondale Mills; Becton Dickinson; BastLab; Blumenthal Mills; Burlington Industries, Inc.; Collins & Aikman; Cone Mills; Dan River; E. I. du Pont de Nemours & Co.; Fieldcrest Cannon; Gap, Inc.; Glen Raven Mills, Great Lakes Chemicals; Grover Industries; Harriet & Henderson; Hickson Corporation; Hills, Inc.; Intek Inc.; Interface Interior Fabrics Inc.; Liberty Fabrics; Malden Mills; Mastercraft Fabrics; Mayfair Mills; MeadWestVaco; Milliken & Co.; Monsanto Company; National Spinning Co., Phoenix Finishing Corp., Pillowtex Corp.; Procter and Gamble Company; ProdiGene, Inc.; Ramtex, Inc.; Russell Corp.; Shell Chemical Company; Solutia, Inc.; Spartan Mills; Spectrum Dyed Yarn, Inc.; Texollini; Wellman, Inc.

### *International*

Shanghai NewGenius Bio Tech Co., Ltd, China; Yuxin Group, China; Wujiang Meiyuan Sanyou Dyestuff Chemical Co., Ltd, China; Zhangjiagang Jinling Textiles Co., Ltd., China; Small Business Corporation of Korea; Seo Kwang Industrial Co., Ltd, Daegu, Korea; Pine Tex Company, Gyeongsangbuk-Do, Korea; Polyplus Co. Ltd, Yosu, Korea; Dandong Chemical Fiber Import and Export Co. of China; Guangdong Esquel Textiles Co., Ltd. of China; Dymatic Chemicals, Inc. of China; Shandong Zibo Warp and Weft

Assistants Co., Ltd. of China.

**Book reviewed**

-**Chapter 19, PLA Fibers** in *Textile Science*, by Kathryn L. Hatch, University of Arizona, Tucson. West Publishing Company, (reviewed July, 2006).

-**Kirk-Othmer Encyclopedia of Chemical Technology, Online Edition**

“Dyes, Application and Evaluation” by Martin Bide, 1, 2004

-Tortora, P., and Collier, B., **Understanding Textiles**, 5th edn., Prentice-Hall Publishing Company, Columbus, OH, (reviewed 1995).

-Anonymous, Basic Textiles Laboratory Manual, MacMillan College Publishing Company, Inc., Columbus, OH, (reviewed 1994).

-Tortora, P.G., Understanding Textiles, 4th edn., MacMillan Publishing, NY, NY, 1992.(reviewed 1993).

-Anonymous, Textile Workbook, MacMillan Publishing, NY, NY (reviewed 1993).

**Refereed Papers Reviewed for:**

1. AATCC Review
2. AATCC Journal of Research
3. ACS Applied Materials & Interfaces
4. ACS Sustainable Chemistry & Engineering
5. Acta Biomaterialia
6. Acta Materialia
7. Advanced Functional Materials
8. Advanced Materials
9. American Journal of Infection Control
10. American Society for Testing and Materials
11. Analytical and Bioanalytical Chemistry
12. Biological Research
13. Biomacromolecules
14. Biomaterials Science
15. BioResources
16. Bioresource Technology
17. Biotechnology & Bioengineering
18. BMC Biotechnology
19. Carbohydrate Polymers
20. Cereal Chemistry
21. Cellulose
22. Chemical Engineering Communications
23. ChemSusChem
24. Colloids and Surfaces B: Biointerfaces
25. Coloration Technology
26. Composites Part A
27. Composites Part B
28. Composites Science and Technology
29. Drug Discovery Today
30. Dyes and Pigments
31. e-Polymers
32. Environmental Science and Pollution Research
33. Environmental Science and Technology
34. Environmental Technology

35. European Journal of Wood and Wood Products
36. European Journal of Pharmaceutics & Biopharmaceutics
37. European Polymer Journal
38. Fibers and Polymers
39. Food Chemistry
40. Food Hydrocolloids
41. Industrial & Engineering Chemistry Research
42. Industrial Crops and Products
43. Innovative Food Science & Emerging Technologies
44. International Journal of Biological Macromolecules
45. International Journal of Food Science and Technology
46. International Journal of Pharmaceutics
47. International Journal of Polymer Science
48. Journal of Adhesive Science and Technology
49. Journal of Agricultural and Food Chemistry
50. Journal of Applied Polymer Science
51. Journal of Bioactive and Compatible Polymers
52. Journal of Biobased Materials and Bioenergy
53. Journal of Biomaterials Applications
54. Journal of Biomedical Nanotechnology
55. Journal of Cereal Science
56. Journal of Cleaner Production
57. Journal of Composite Materials
58. Journal of Controlled Release
59. Journal of Engineered Fibers and Fabrics
60. Journal of Environmental Management
61. Journal of Food Engineering
62. Journal of Imaging Science & Technology
63. Journal of Materials Chemistry B
64. Journal of Materials Research
65. Journal of Materials Science
66. Journal of Materials in Civil Engineering
67. Journal of Microencapsulation
68. Journal of Nanoparticle Research
69. Journal of Pharmaceutical Sciences
70. Journal of Polymer Research
71. Journal of Polymers and the Environment
72. Journal of Polymer Science, Part A: Polymer Chemistry
73. Journal of Textile and Apparel Technology and Management
74. Journal of the American Oil Chemists' Society
75. Kirk-Othmer Encyclopedia of Chemical Technology, Online Edition.
76. Langmuir
77. Macromolecular Bioscience
78. Macromolecular Materials and Engineering
79. Materials and Design
80. Materials Science and Engineering: C Materials for Biological Applications
81. Polymer Composites
82. Polymer Engineering & Science
83. Polymers for Advanced Technologies
84. Polymer International
85. Research Journal of Textile and Apparel
86. RSC Advances
87. Separation Science and Technology
88. Spectroscopy

89. Textile Chemist and Colorist
90. TCC & ADR
91. Textile Research Journal
92. Transactions of the ASABE

**Academic Promotion Reviewed for:**

- United States Department of Agriculture-Agricultural Research Service-Southern Regional Research Center. Research Position Evaluation System (RPES) evaluation (similar to a tenure review). “In-Depth Reviewer” on **James E. Rodgers’** research and impact (Ph.D. Research Leader, Cotton Structure & Quality (CSQ) Research Unit). October, 2016.
- Department of Fiber Science & Apparel Design, Cornell University. Served as an external evaluator of Dr. **Margaret Frey’s** dossier for promotion to full professor. January, 2015.
- United States Department of Agriculture. Agricultural Research Service. Served as a reference for Dr. **James Kenar’s** research position evaluation system (RPES) case review at USDA. November, 2014.
- Department of Agricultural and Biological Engineering, Purdue University. Served as an external evaluator of Dr. **Nathan S. Mosier** for promotion to full Professor. October, 2014.
- Department of Fashion and Apparel Studies, University of Delaware. Served as an external evaluator of Dr. **Huantian Cao’s** materials for promotion to full professor. August, 2014.
- Department of Textiles, Merchandising and Interiors, College of Family and Consumer Sciences, University of Georgia. Served as an external reviewer for the Promotion of **Suraj Sharma** to associate professor with tenure. July, 2014
- Department of Fiber Science & Apparel Design, Cornell University. Served as an external reviewer for the Promotion of **Juan Hinestroza** to associate professor with tenure. September, 2010
- College of Materials Engineering, Suzhou University, Served as an external reviewer for the Promotion of **Tian, Baozhong,** to Associate Professor. May, 2008.
- The Department of Human Ecology, the University of Texas at Austin, served to assess the scholarly contribution of Dr. **Yan (Jonathan) Chen** for the promotion committee as part of their hiring of Dr. Chen as a Full Professor with tenure in Textiles and Apparel. April, 2008.
- School of Human Ecology, Louisiana State University. Served as an external reviewer for the Promotion of **Yan Chen** to full professor with tenure. August, 2006
- Department of Textile Engineering, Chemistry, and Science, College of Textiles, North Carolina State University. Served as an external reviewer for the research work of **Renzo Shamey** for the promotion to Associate Professor with tenure. October, 2006.

**Proposals Reviewed for National/International Research Organizations:**

- 2014 the Research Grants Council (RGC) of Hong Kong. A research proposal titled “Bio-Nano Interfacial Sciences of Functionalizing Fibrous Materials for Biomedical Applications”, HK\$8.8 million. submitted under the Collaborative Research Fund of the RGC. (Sept. 2014).
- 2009 NIH Challenge Grant. June 2009. A total of two proposals were evaluated.
- 2009 Specialized Research Fund for the Doctoral Programs of Higher Education of China’s 211 State Key Universities May, 2009. A total of 11 proposals were evaluated
- National Natural Science Foundation of China, Expert examiner, Department of Life Sciences  
30930215/C110202 Molecular biology of decomposing and synthetic microorganism and their enzymes from Straw woody cellulose 秸秆木质纤维素分解复合菌系及其复合酶系的分子机制/

崔宗均 5-09

- Evaluator, 2009 Award for Science and Technology, Ministry of Education of China. 09/2009. Six applications reviewed.
- United States Department of Agriculture, National Research Initiative Competitive Grants Program, 1995, 1996, 1997, 1998, 2000, 2001
- USDA Small Business Innovation Research Program, 1998

### **Fellowships**

- David Ross Grant Fellow at Purdue University (1990-1991).

### **Outstanding Student Awards**

- 1991, winner of The School of Consumer and Family Sciences Compton Award for Outstanding Doctoral Student at Purdue University
- 1983 to 1984, and 1982 to 1983 academic years at China Textile University
- 1978 to 1979, and 1977 to 1978 academic years at Shanghai Textile Institute

### **Activities**

- Chairman of the Graduate Student Government of the Department of Textile Chemical Engineering of China Textile University (Donghua University), 1982-1984.
- Consultant of the Student Government of Shanghai Textile Institute (Donghua University), Chairman of the Student Government of the Division of Dyeing and Finishing, 1978-1980.

### **Who's Who List**

- Who's Who among America's Teachers. 8<sup>th</sup> and 9<sup>th</sup> Edition
- America's Registry of Outstanding Professionals. 2001-2002.
- Who's Who in America - 2003, 57th Edition.
- Who's Who in Science and Engineering - 2000-2001, 5th Edition

### **Professional Membership**

- The American Association of Textile Chemists and Colorists (1989-)
- The American Chemical Society (1992-94, 2003-)
- Gamma Sigma Delta (The Honor Society of Agriculture) 2012-2015.
- International Textile and Apparel Association (1992-94)

### **Publications**

#### **Journal Papers**

1. Dong, Z., Hou, X.L., Haigler, I., and Yang\*, Y.Q. Preparation and properties of cotton stalk bark fibers and their cotton blended yarns and fabrics. **Journal of Cleaner Production**. **139**. 267-276 (2016).
2. Zhao, Y., Xu, H.L., Mu, B.N., Xu, L. and Yang\*, Y.Q. Biodegradable soy protein films with controllable water solubility and enhanced mechanical properties via graft polymerization. **Polymer Degradation and Stability**. **133**. 75-84 (2016).
3. Xu, H.L., Yang, M.P., Hou, X.L., Li, W., Su, X.Z., Yang\*, Y.Q. Industrial trial of high-quality all green sizes composed of soy-derived protein and glycerol. **Journal of Cleaner Production**. **135**. 1-8 (2016).
4. Zhao, Y., Xu, H.L., Mu, B.N., Xu, L., Hogan, R., and Yang\*, Y.Q. Functions of soymeal compositions in textile sizing. **Industrial Crops and Products**. **89**. 455-464 (2016).
5. Pan, G.W., Zhao, Y., Xu, H.L., Ma, B.M., and Yang\*, Y.Q. Acoustical and Mechanical Properties of Thermoplastic Composites from Discarded Carpets. **Composites Part B-Engineering**. **99**. 98-105 (2016).
6. Song, K.L., Xu, H.L., Xie, K.L., and Yang\*, Y.Q. Effects of chemical structures of polycarboxylic acids on molecular and performance manipulation of hair keratin. **RSC Advances**. **6**(63). 58594-58603 (2016).
7. Ma\*, B.M., Qiao, X., Hou, X.L., and Yang\*, Y.Q., Pure keratin membrane and fibers from chicken feather. **International Journal of Biological Macromolecules**. **89**, 614-621(2016).
8. Chen, L.Y., Duan, Q., Chen, J.G., Yang, Y.Q., and Wang\*, B.J., Antioxidant-assisted coloration of wool with xanthophylls extracted from corn distillers' dry grain. **Coloration Technology**. **132** (3), 208-216 (2016).

9. Liu, J., Wang, B.J., Xu, X.M., Chen, J.G., Chen, L.Y., and Yang\*, Y.Q. Green Finishing of Cotton Fabrics Using Xylitol-Extended Citric Acid Cross-linking System on a Pilot Scale. **ACS Sustainable Chemistry & Engineering**. **4**(3), 1131-1138 (2016).
10. Pan, G.W., Zhao, Y., Xu, H.L., Hou, X.L., and Yang\*, Y.Q. Compression Molded Composites from Discarded Nylon 6/Nylon 6,6 Carpets for Sustainable Industries. **Journal of Cleaner Production**. **117**. 212-220 (2016).
11. Chen, L.Y., Wang, B.J., Chen, J.G., Ruan, X.H. and Yang\*, Y.Q. Characterization of dimethyl sulfoxide-treated wool and enhancement of reactive wool dyeing in non-aqueous medium. **Textile Research Journal**. **86**(5). 533-542 (2016).
12. Xu, S.X., Chen, J.G., Wang, B.J., and Yang\*, Y.Q. An Environmentally Responsible Polyester Dyeing Technology Using Liquid Paraffin. **Journal of Cleaner Production**. **112**. 987-994 (2016).
13. Shen, L., Xu, H.L. and Yang\*, Y.Q. Quantitative Correlation between Crosslinking Degrees and Mechanical Properties of Protein Films Modified with Polycarboxylic Acids. **Macromolecular Materials and Engineering**. **300**(11), 1133-1140 (2015).
14. Shen, L., Xu, H.L., Kong, L.J., and Yang\*, Y.Q. Non-toxic crosslinking of starch using polycarboxylic acids: kinetic study and quantitative correlation of mechanical properties and crosslinking degrees. **Journal of Polymers and the Environment**. **23**(4). 588-594 (2015).
15. Xu, H.L., Canisag, H. and Yang\*, Y.Q. Robust and Flexible Films from 100% Starch Crosslinked by Non-Toxic Disaccharide Derivative. **ACS Sustainable Chemistry & Engineering**. **3**(11). 2631-2639 (2015).
16. Chen, L.Y., Wang, B.J., Ruan, X.H., Chen, J.G. and Yang\*, Y.Q. Hydrolysis-free and fully recyclable reactive dyeing of cotton in green, non-nucleophilic solvents for a sustainable textile industry. **Journal of Cleaner Production**. **107**. 550-556 (2015).
17. Mu, B.N., Xu, H.L., and Yang\*, Y.Q., Accelerated hydrolysis of substituted cellulose for potential biofuel production: kinetic study and modeling. **Bioresource Technology**. **196**, 332-338 (2015).
18. Chen, J.G., Wang, B.J., Zhu, Q., Gao, Q.W., Yang\*, Y.Q., Chemical Risk Assessment for the Textile Industry in China. **Asian Journal of Ecotoxicology** (Chinese). **10**(2). 131-141 (2015). 陈建刚, 王碧佳, 朱泉, 高琴文, 杨一奇\*. 中国纺织印染加工用化学品的风险评估 《生态毒理学报》第十卷 第二期. 131-141 (2015)。
19. Xu, H.L., Shen, L., Xu, L., and Yang\*, Y.Q. Low-temperature crosslinking of proteins using non-toxic citric acid in neutral aqueous medium: mechanism and kinetic study. **Industrial Crops and Products**. **74**. 234-240 (2015).
20. Reddy, N. and Yang, Y.Q., Review: Potential use of plant proteins and feather keratin as sizing agents for polyester-cotton. **AATCC Journal of Research**, **2**(2) 20-27 (2015).
21. Xu, H.L. and Yang\*, Y.Q., Nanoparticles derived from plant proteins for controlled release and targeted delivery of therapeutics. Editorial, **Nanomedicine**. **10**(13)2001-2004 (2015).
22. Xu, S.X., Chen, J.G., Wang, B.J., and Yang\*, Y.Q. Molecular Surface Area Based Predictive Models for the Adsorption and Diffusion of Disperse Dyes in Polylactic Acid Matrix. **Journal of Colloid and Interface Science**. **458**, 22-31 (2015).
23. Liu, P., Xu, H.L., Mi, X., Xu, L., and Yang\*, Y.Q. Oxidized sucrose: a potent and biocompatible crosslinker for three-dimensional fibrous protein scaffolds. **Macromolecular Materials and Engineering**. **300**(4), 414-422 (2015).
24. Xu, S.X., Chen, J.G., Wang, B.J., and Yang\*, Y.Q. Sustainable and Hydrolysis-Free Dyeing Process for Polylactic Acid Using Non-Aqueous Medium. **ACS Sustainable Chemistry & Engineering**. **3**(6) 1039-1046 (2015). **Cover Report**
25. Xu, H.L., Liu, P., Mi, X., Xu, L., and Yang\*, Y.Q., Potent and regularizable crosslinking of ultrafine fibrous protein scaffolds for tissue engineering using a cytocompatible disaccharide derivative. **Journal of Materials Chemistry B. Materials for Biology and Medicine**. **3**(17) 3609-3616 (2015).
26. Zhao, Y.Z., Zhao, Y., Yang\*, Y.Q. Modified Soy Proteins to Substitute Non-Degradable Petrochemicals for Slashing Industry. **Industrial Crops and Products**. **67**. 466-474 (2015).
27. Ma, Z.Z., Pan, G.W., Xu, H.L., Huang, Y.L., Yang\*, Y.Q. Cellulosic fibers with high aspect ratio from cornhusks via controlled swelling and alkaline penetration. **Carbohydrate Polymers**. **124**. 50-56 (2015).
28. Reddy, N., Shi, Z., Xu, H.L., and Yang\*, Y.Q. Development of Wheat Glutenin Nanoparticles and their Biodistribution in Mice. **Journal of Biomedical Materials Research Part A**. **103**(5), 1653-1658 (2015).



29. Chen, L.Y., Wang, B.J., Chen, J.G., Ruan, X.H. and Yang\*, Y.Q. Comprehensive Study on Cellulose Swelling for Completely Recyclable Non-Aqueous Reactive Dyeing. **Industrial & Engineering Chemistry Research**. **54**(9)2439-2446. (2015).
30. Zhao, Y., Zhao, Y.Z., Xu, H.L., and Yang\*, Y.Q. A Sustainable Slashing Industry Using Biodegradable Sizes from Modified Soy Proteins to Replace Petro-Based Poly(vinyl alcohol). **Environmental Science & Technology**. **49**(4). 2391-2397 (2015).
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### Books and Book Chapters

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-Elena Ferrari, Helan Xu, Yiqi Yang, Mark A. Carlson, and David Oupický. Development of dichloroacetate biomaterials for prevention of postoperative adhesions. **12<sup>th</sup> International Nanomedicine and Drug Delivery Symposium (NanoDDS'14)**. Chapel Hill, NC, October 6-8, 2014.

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- Yang, Y.Q. Effect of electrolytes on hydrophobic interactions in wool dyeing with acid dyes. **12th International Wool Research Conference (IWRC 2010)**. Shanghai, China. October 19-22, 2010. **Keynote Speech.**
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- Li, Y., and Yang, Y.Q., Crosslinking Plant Proteins: A Review, **International Conference on Sustainable Textiles (ICST 08)**, Wuxi, China, October 21-24, 2008.

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Pretreatment, Division of Cellulose Paper and Textile, **202nd American Chemical Society National Meeting**, New Orleans, Louisiana, December 2-6, 1991.

-Yang, Y.Q., Velayudhan, A., Ladisch, C.M., and Ladisch, M.R., Chromatographic Bandspreading in a Continuous Stationary Phase, the Symposium on Recent Developments in separation Technology, **1991 Annual Meeting of American Institute of Chemical Engineers**, Los Angeles, California, November, 1991.

-Ladisch, M.R., Yang, Y.Q., and Ladisch, C.M., Recovery of Dilute Aqueous Butanol by Adsorption on Lignin, **Waste Stream Minimization/Utilization Technology Fair**, Sponsored by U.S. Department of Energy, U.S. Environmental Protection Agency, and U.S. Bureau of Mines, Vienna, Virginia, April 25-26, 1991.

-Yang, Y.Q., Ladisch, C.M. and Ladisch, M.R., Pore Size and Surface Area Distribution in a Hydrophilic Rolled Stationary Phase, **Paper number 19, Division of BioT, 201st American Chemical Society National Meeting**, Atlanta, Georgia, April 14-19, 1991.

-Ladisch, M.R., Velayudhan, A., Yang, Y. and Ladisch, C.M., High Speed Protein Separation on a Continuous Stationary Phase, **Paper No. 127d, Session on Advances in Protein Purification Methodology, 1990 Annual Meeting of American Institute of Chemical Engineers**, Chicago, Illinois, November 11-16, 1990.

-Ladisch, C.M. and Yang, Y.Q., Freeze Concentration of Dyes, **1990 National Conference of the Association of College Professors of Textiles and Clothing**, Denver, Colorado, October 29 - November 3, 1990.

-Yang, Y.Q., Velayudhan, A., Ladisch, C.M. and Ladisch, M.R., Surface Interaction Effects in the Rapid Liquid Chromatography of Proteins on a Continuous Stationary Phase, **Paper number 179, Division of BioT, 200th American Chemical Society National Meeting**, Washington, D.C., August 26-31, 1990.

-Ladisch, M.R., Velayudhan, A., Hendrickson, R., Yang, Y.Q., Scale-up of Bioseparation Processes, **Paper number 10, Division of BioT, 199th American Chemical Society National Meeting**, Boston, Massachusetts, April 22-27, 1990.

-Wang, J., and Yang, Y. Some Adsorption Properties of Activated Carbons in Aqueous Medium, **2nd Chinese Surface and Colloidal Chemical Society National Meeting**, Jinan, Shandong, December, 1986.

#### **Invited and local Presentations**

-Yiqi Yang. Non-traditional biobased polymeric materials. Invited by the Department of Biological Systems Engineering at Virginia Polytechnic University. Sept. 20, 2016

-Zhao, Y., Xu, H.L., Zhao, Y.Z., Xu, L. and Yang, Y.Q. Biopolymers for Textiles. Shaoxin University, Shaoxin, China, May 17, 2016.

-Yang, Y.Q., Liu, P.C., Zhao, Y., Xu, H.L., Shi, Z., Reddy, N. Potential Large Scale Industrial Applications of Soyproteins. UNL Biofuels and Bioproducts Symposium. University of Nebraska-Lincoln, September 18, 2015. (25 mins).

-Yang, Y.Q., "Successful and Joyful Graduate Experience", (July 7, 9:30-11:00 am). 2015 Jiangnan University Graduate School Summer Camp. July 6-17, 2015.

-Yang, Y.Q., "Potential fibers from agricultural wastes and byproducts", (July 7, 3:30-5:00pm). 2015 Shanghai Summer Graduate School on Novel Fiber Materials. Approved and hosted by the Higher Education Degree Committee of Shanghai, organized by Donghua University. July 6-17, 2015.

- Yang, Y.Q., Successful College Experiences. College of Textiles and Clothing, Jiangnan University. 2-4pm, June 30, 2015.
- Yang, Y.Q., Environmentally Responsible Sizes to Substitute PVA for High-Speed Weaving. Nantong University, Nantong, Jiangsu Province, China. 2-3pm, June 17, 2015.
- Yang, Y.Q. "Innovation in Textiles- From Garbage to Fashion". 'SciPop Talks!' series 7-8 p.m. Feb. 11, 2015. Love South, Room 222, Lincoln, NE.
- Xu, H.L., Ma, Z., and Yang, Y.Q., Controlled in vivo Biodistribution of Crosslinked Zein Nanoparticles. College of Education and Human Sciences, 2014 Research Showcase. October 17, 2014.
- Reddy, N., Zhang, Y., Pan, G.W., and Yang, Y.Q., Developing Sustainable & Green Warp Sizing Agents from Corn Distillers Dried Grains. College of Education and Human Sciences, 2014 Research Showcase. October 17, 2014.
- Ma, Z., Huang, Y., Pan, G.W., Xu, H.L., and Yang, Y.Q., Chemical & Biological Treated Cornhusk Fibers for Potential Textile Applications. College of Education and Human Sciences, 2014 Research Showcase. October 17, 2014.
- Yang, Y.Q., Potential applications of co-products from biofuel industry. Frontiers in Bioproducts and Biofuels Symposium. University of Nebraska-Lincoln Research Fair. 8:30 am – 4:00 pm, Lincoln, NE. November 7, 2013.
- Yang, Y.Q., Successful Graduate Studies. The 14<sup>th</sup> Chemistry Festival of Donghua University, Donghua University, Shanghai, China. Oct. 29, 2013. 3-5 pm
- Yang, Y.Q., Feather keratin fibers and their potential applications. Keynote Speech. Taishan Academic Forum, October 26-28, 2013, Qingdao, Shandong, China.
- Xu, H.L. and Yang, Y. Higher Value Products from Corn Stover. Corn Stover Processing Meeting. IANR. East Campus Union, University of Nebraska-Lincoln. Oct. 18, 2013. (A meeting to discuss issues with stakeholders at Nebraska).
- Yang, Y.Q., Non-Traditional Biofibers and Their Applications. Dalian Polytechnic University, Dalian, Liaoning Province, China. June 28, 2013.
- Yang, Y. Regenerated keratin fibers from chicken feather for textiles and tissue engineering. Hong Kong Polytechnic University. Hong Kong, China. June 24, 2013.
- Yang, Y. Current and future eco-textiles: damage estimation, energy conservation, discharge reduction and technology substitution. Forum for strategic discussions on environmental inspection, precaution, and health assurance, Organized by the Chinese Ministry of Science and Technology. Hefei, China, June 20-21, 2013.
- Yang, Y. Introduction to Biotextiles and Researches on Biofibers, Beijing Institute of Fashion Technology, Beijing, China. 1-3 pm, May 27, 2013.
- Yang, Y.Q., Successful Graduate Studies. The 13<sup>th</sup> Chemistry Festival of Donghua University, Donghua University, Shanghai, China. Nov. 27<sup>th</sup>, 2012. 6:30-8:30pm
- Yang, Y. "Biotextiles", 2012 Summer Graduate School at Donghua University on Textile Chemistry and

Dyeing & Finishing Engineering. Approved and hosted by the Higher Education Degree Committee of Shanghai, organized by Donghua University. July 5, 2012, 8:30-11:00 am and 2:00-4:30pm.

-Yang, Y. "Low Carbon Textile Materials –Biofibers from agricultural byproducts and co-products", Invited Opening Keynote Speech.. **2012 Shanghai Graduate Scholarship Forum of Textile and Apparel Creativity and Design**. Approved and hosted by the Higher Education Degree Committee of Shanghai, organized by the Shanghai University of Engineering Science, Shanghai Textile Science Research Institute, and Shanghai Textile Engineering Society. July 19, 2012.

-Yang, Y. "Some Common Characteristics from Successful Researchers", Invited Opening Keynote Speech.. **2012 Summer National Graduate School on Eco-Textile Technology**. Approved and hosted by the Ministry of Education of China, organized by Jiangnan University. July 9, 2012, 9:30-11:30 am .

-Yang, Y.Q., Eco-Textiles from Nebraska's Agriculture, the Nebraska Ag Classic Conference. back-to-back - two sessions. 3:10-4:00pm and 4:10-5:00pm. January 10, 2012. Holiday Inn in Kearney NE. (22 total).

-Yang, Y.Q., Textile Chemistry of Agricultural Byproducts and Wastes, Keynote Speech, College of Chemistry, Chemical Engineering and Biotechnology, 60<sup>th</sup> Anniversary of Donghua University, Shanghai, China, October 28, 2011.

-Yang, Y.Q., Graduate Studies. The 12<sup>th</sup> Chemistry Festival of Donghua University, Donghua University, Shanghai, China. Oct. 24, 2011. [http://www.shyouth.net/html/xuanchuanbu/xcb\\_jcdt/2011-10-25/Detail\\_125704.htm](http://www.shyouth.net/html/xuanchuanbu/xcb_jcdt/2011-10-25/Detail_125704.htm)

-Yang, Y.Q., Research Methodology, Keynote Speech at the Famous Scholars Forum, the Graduate College, Jiangnan University, Wuxi, China. March 19, 2011.

-Yang, Y.Q., Innovation and Biobased Industry, The Fifth MarketPlace: Opening Doors to Success conference. Ramada Convention Center in Kearney, Nebraska. February 22nd -23rd, 2011.

-Yang, Y. Writing of SCI refereed journal articles. Warp Knit Engineering Research Center of Ministry of Education of China at Jiangnan University, Wuxi, China. 12-28-2010.

-Yang, Y.Q., Graduate Studies in U.S., College of Textiles, Jiangnan University, Wuxi, China. Dec. 20, 2010.

-Yang, Y.Q., Advances in Textiles and Textile Cares. The Celebration of Youth XVII (Adults 25). October 30, 2010, UNL, Lincoln, NE.

-Yang, Y.Q., Current work on developing textiles from agricultural commodities at the University of Nebraska-Lincoln, 12<sup>th</sup> Biennial Symposium of the Textile Society of America, Oct. 8, 2010, Lincoln, NE.

-Yang, Y.Q., New fibers for textiles, Pop Tech Ecomaterials Innovation Lab, Joseph B. Martin Conference Center, Harvard University, Boston, MA, July 20-23, 2010.

-Yang, Y.Q., Future of Biobased Materials for Textiles, Laboratory of Biobased Materials Research, Jiangnan University, June 28, 2010.

-Yang, Y.Q., Graduate Studies. Zhejiang Sci-Tech University, Hangzhou, China, June 21, 2010.

-Yang, Y.Q., Alternative Resources for a Sustainable Fiber Industry. **Forum on Biomass Fiber & "111 Project" Workshop**, Shanghai, China. June 16, 2010. **Keynote Speech**.



-Yang, Y.Q., and Reddy, N.. Nontraditional natural cellulosic fibers for potential applications in textiles. **The 150th Eastern Forum of Science and Technology, Theme: Biomass Fiber and Biochemical Materials**. The forum is sponsored by the government of Shanghai, Chinese Academy of Science, and Chinese Academy of Engineering. Shanghai, China. June 16-18, 2010. **Keynote Speech**.

Yang, Y.Q., Learning to learn, Zhi-Shan College (College of Honored Students), Jiangnan University, June 6, 2010.

-Yang, Y.Q., Training of Graduate Students in the U.S., Graduate Education Forum at Jiangnan University. May 21, 2010. **Keynote speech**.

-Mary Regier, Andrea Gilkey, Beth A. Duensing, Yiqi Yang, and Angela K. Pannier Zein Microspheres for Oral Nonviral Gene Delivery and Tissue Engineering Applications. **Regenerative Medicine Symposium**. Omaha, NE, May 24, 2010.

-Stephanie Berger, Sarah A. Plautz, Narendra Reddy, Yiqi Yang, and Angela K. Pannier, Patterned Hydrogels for Myocardial Tissue Engineering using Zein Fiber-Templating. **Regenerative Medicine Symposium**. Omaha, NE, May 24, 2010.

-Yiqi Yang, Future Fibers and Textiles, for a Course for the **Osher Lifelong Learning Institute at the University of Nebraska-Lincoln, 419 Perspectives on Textiles and Apparel**. Rm 121, HECO Building, Lincoln, NE, 8:30-10:00am, April 23, 2010.

-Yang, Y.Q., Research in Textile Science, **2010 Departmental Research and Education Updates**, Webinars presentation for Extension faculty and staff at UNL. March 24, 2010.

-Yang, Y.Q., Developing green thermoplastics from distillers dried grain. **Nebraska Corn Board Meeting**, Lincoln, NE. March 23, 2010.

-Yang, Y.Q., Fabrications of zein nanospheres for potential therapeutic drug delivery applications. **Nebraska Corn Board Meeting**, Lincoln, NE. March 23, 2010.

-Yang, Y.Q., Zein nano-fibers and nano-particles for medical applications. **Nebraska Ethanol Board Meeting**, Lincoln, NE. March 19, 2010.

-Yang, Y.Q., Innovation in Textiles, presentation to 4H group from Seward County, NE. (10 people) Jan 29, 2010. 1:30-2:30pm. Lincoln, NE.

-Yang, Y. Fibers from Plant Proteins for textile and medical applications. Jiangnan University. Wuxi, China, Oct. 19, 2009.

-Yang, Y.Q., Undergraduate education, job market, and potential graduate studies of textiles in U.S. Jiangnan University, Wuxi, China. Oct. 16, 2009.

-Yang, Y.Q., Eco-Friendly Textile Materials. College of Fashion and Design. Donghua University, Shanghai, China. June 1, 2009.

-Yang, Y.Q., Biotextiles, College of Textiles, Jiangnan University, Wuxi, China. May 27, 2009.

-Yang, Y.Q., How to become a successful PhD student in the Colleges of U.S. to the students who are selected by the Ministry of Education of China to have a joint PhD study in US leaving this fall, Jiangnan University, Wuxi, China. May 26, 2009.

- Yang, Y.Q., Comparison of U.S. and Chinese high school educations, Chuzhou Experimental Middle School, Huai-An, China, May 24, 2009.  
[http://www.hascszyzx.com/Article/xyxw/xyxwen/200905/Article\\_20090525104605.html](http://www.hascszyzx.com/Article/xyxw/xyxwen/200905/Article_20090525104605.html)
- Yang, Y.Q., Some common characteristics of a successful graduate student. Keynote Speaker, The First PhD and Master Students Forum of Jiangnan University, Wuxi, China. May 16, 2009.
- Yang, Y.Q., Trends in textile researches. Keynote speaker, The Second Joint Textile and Apparel Graduate Student Forum of Suzhou University, Zhejiang Sic-Tech University and Jiangnan University. Wuxi, China, May 16-17, 2009.
- Yang, Y., Reddy, N., and Zou, Y., Natural cellulose fibers and composites from hop stems, Washington Hop Industry Annual Meeting, Yakima Convention Center, Yakima, WA, January 23, 2009.
- Xu, W.J., Reddy, N., and Yang, Y.Q., Potential Applications of Byproduct from Ethanol Production. College of Education and Human Sciences, 2008 Research Showcase. November 15, 2008.
- Zou, Y., Reddy, N., and Yang, Y.Q., Composites from Biomass Materials. College of Education and Human Sciences, 2008 Research Showcase. November 15, 2008
- Yang, Y.Q., Jiang, Q.R. and Warner, K., Vision: Innovation in Textiles. the Celebration of Youth XV: Expanding Visions. Nov. 1, 2008, UNL, Lincoln, NE.
- Yang, Y.Q., A Greener and More Sustainable Textile Industry. Fashion Group International, Kansas City Career Day, the Nelson Atkins Museum of Art, Kansas City, MO, November 14<sup>th</sup>, 2008.
- Reddy, N, Zou, Y., and Yang, Y.Q., **Developing High Value Textile and Composite Products from Nebraska's Agricultural Byproducts and Co-products.** 2008 Nebraska Research and Innovation Conference, the Marriott Cornhusker Hotel, Lincoln, NE. October 28, 2008. (poster)
- Xu, W.J., Reddy, N, and Yang, Y.Q., **Refinement of DDGS from Corn and Potential Applications of Zein and Carbohydrates Thereof.** 2008 Nebraska Research and Innovation Conference, the Marriott Cornhusker Hotel, Lincoln, NE. October 28, 2008. (poster)
- Yang, Y.Q., Non-Traditional Textiles from Agricultural Byproducts, 14<sup>th</sup> Legendary Ag Adventure Tour, July 17-19, 2008, Lincoln, Stapleton, Scottsbluff, Harrisburg, Mitchell, Crawford, Kimball, North Platt, Aurora, NE.
- Yang, Y.Q., Properties and Potential Applications of Zein Extracted from Distillers Dried Grains, 2008 Corn Utilization & Technology Conference (CUTC), June 2-4, 2008, Kansas City, MO.
- Yang, Y.Q., Recent Progress in Textile Researches, March 21, 2008, Jiangnan University, Wuxi, China.
- Yang, Y.Q., Importance of Natural Cellulose Fibers from Hop and Other Plant Biomass for Fiber and Material Industries, Invited Guest Speaker for the Non-Brewing Hop Uses Panel by the Oregon Hop Commission for **The American Hop Convention 2008** in Portland, Oregon, January 24, 2008
- Yang, Y.Q. Invited Presentation. Biofibers from Nebraska's Agriculture for a new textile industry, **Family, Youth, Community Partners.** Lincoln, NE. January 11, 2008.
- Yang, Y.Q., **Agri-Couture**, Keynote speaker for the group of Make It with Wool contestants and parents, Nov. 16, 7:30pm, UNL. (24 total) 2007.
- Yang, Y.Q., Textiles beyond the Imagination, Keynote speaker, Celebration Luncheon, Celebration of

Youth XIV: Imagine!, October 27, 2007, 12:00-1:15, Lincoln, NE.

-Yang, Y.Q., Imagine future Fibers, Presentation to the Youth, Celebration of Youth XIV: Imagine!, October 27, 2007, 1:30-2:30, Lincoln, NE.

-Yang, Y.Q., Cool textiles and textiles from Nebraska's agricultural byproducts. Seward County 4-H Members between the ages of 8 and 18. There are 12 members plus seven parents. 1:10-1:50 p.m. on October 26, 2007.

-Yang, Y.Q., Green fibers from Nebraska's agricultural products and byproducts. Ecology Fair, September 9th, 2007 from 9:00 AM - 12:30PM. Westminster Presbyterian church, Lincoln, NE

-Yang, Y.Q., New fiber developments from agricultural by-products, Nebraska Association of County Extension Boards. June 29, 2007, Lincoln, NE.

-Yang, Y.Q., Identifying potential medical applications of wheat gluten fibers. Presentation to Nebraska Wheat Board, Scottsbluff, NE, June 14, 2007.

-Yang, Y.Q., Developing composites from natural cellulose fibers obtained from wheat straw. Presentation to Nebraska Wheat Board, Scottsbluff, NE, June 14, 2007.

-Yang, Y.Q., A new bio-textile industry, Southern Yangtze University, Wuxi, China, June 1, 2007.

-Yang, Y.Q., A sustainable textile industry, Zhejiang Sci-Tech University, Hangzhou, China, May 30, 2007.

-Yang, Y.Q., Non-traditional biofibers for a new textile industry. Donghua University, Shanghai, China, May 29, 2007.

-Yang, Y.Q., Nontraditional biofibers for a new textile industry, Annual meeting of AATCC Midwest Section, The Town Hall, Atlas Material Testing Technologies, Chicago, IL, April 20, 2007.

-Yang, Y.Q. "Extracting high quality Zein from DDGS and developing protein fibers from Zein in DDGS." Presented to Nebraska Corn Board, March 27, 2007, Lincoln, NE.

-Yang, Y.Q., Natural cellulose fibers and composites from sorghum leaves and stems. Presented to Nebraska Grain Sorghum Board, East Campus Union, University of Nebraska-Lincoln. March 6, 2007.

-Yang, Y.Q., Biofibers from Agricultural Byproducts, the Big 12 CEDIC (Center for Economic Development, Innovation and Commercialization) Innovation and Capital Formation Conference, March 1, 2007, Kauffman Foundation Conference Center, Kansas City, MO.

Yang, Y.Q., Innovation in Textiles. the Celebration of Youth Xiii: Innovation, October 14, 2006, UNL, Lincoln, NE.

Yang, Y.Q., "Natural cellulose fibers from rice straw" Presentations to TMFD 986 at UNL September 29, 2006

Yang, Y.Q., Biofibers from Annually Renewable Resources. Nebraska Apparel Store Association, Lincoln, NE. June 6, 2006.

Yang, Y. High quality natural cellulose fibers from wheat straw for industrial applications, presentation to

Nebraska Wheat Board, Scottsbluff, NE, May 23, 2006.

Yang, Y.Q., Byproducts from Corn and Soya for fiber and textile applications, presentation to Saunders County Nebraska Soybean and Corn Growers meeting on Tuesday evening, January 17<sup>th</sup>, 2006 at the DD Farms near Ashland, NE.

Yang, Y.Q., Natural cellulose fibers from sorghum stalks for textiles and composites, presentation to Nebraska Grain Sorghum Board, Lincoln, NE. Nov. 2, 2005.

Karst, D., and Yang, Y.Q., Computer Modeling in Polymer and Textile Studies, NU Tech Meeting, Thursday, City Union, Lincoln, NE, 11:30AM – 1PM, Nov 3<sup>rd</sup>, 2005.

-Reddy, N., and Yang, Y.Q., Bio-Fibers from Annually Renewable Resources for Textiles and Composites. Presentations to TMFD 986 at UNL, Oct. 21, 2005

-Yang, Y.Q., Current researches in biotextile engineering, Southern Yangtze University, Wuxi, China, July 7, 2005.

-Yang, Y.Q., Biofibers and their applications in textiles, Zhejiang University of Sciences, Hangzhou, China, July 4, 2005.

-Yang, Y.Q., Textile educations in the United States, Donghua University, Shanghai, China, June 24, 2005.

-Yang, Y.Q., Current researches in textile sciences, Donghua University, Shanghai, China, June 23, 2005.

-Yang, Y.Q., Biofibers from agricultural products and byproducts, Donghua University, Shanghai, China, June 22, 2005.

-Yang, Y.Q., Current development and the future of the textile industry. Nebraska Apparel Store Association, Lincoln, NE. June 8, 2005.

-Yang, Y.Q., Use of Corn and Corn Stalks for Fibers, Quad Counties producers Tour, UNL, March 23, 2005.

-Yang, Y.Q., Textile Applications of Corn Stover, Nebraska Southeast District VIP Event at UNL. March 17, 2005.

-Yang, Y.Q., New Development in Textile Science, Zoo School, a science focus high school in Lincoln, , UNL, Dec. 9, 2004.

-Yang, Y.Q., Research and Development in Textiles, Lincoln Sewing Guild, Sew Creative, 5221 S. 48<sup>th</sup> Street. November 22, 2004.

-Yang, Y.Q., From cornhusks to fibers, Home Economists in Home and Community, Eastridge Presbyterian Church, 1135 Eastridge Dr., Lincoln, NE. November 11, 2004.

-Yang, Y.Q., Teaching, Research and Extension in the Department of Textiles, Clothing and Design, the Celebration of Youth, 4-H, and Nebraska Cooperative Extension, Sept. 23, 2004, UNL, Lincoln, NE.

-Yang, Y.Q., New Textile Sciences in the 21<sup>st</sup> Century, the Celebration of Youth, 4-H, and Nebraska Cooperative Extension, October 23, 2004, UNL, Lincoln, NE.

-Yang, Y. Textiles in the 21<sup>st</sup> Century, the Celebration of Youth, 4-H, and Nebraska Cooperative

Extension, October 25, 2003, UNL, Lincoln, NE. Youth (1 hr., parents 0,5 hr.)

-Yang, Y. (as a speaker of the UNL Speakers Bureau) Textiles in the 21<sup>st</sup> Century, Seward Senior Center, April 15, 2003, Seward, NE.

-Yang, Y. (as a speaker of the UNL Speakers Bureau) Textiles in the 21<sup>st</sup> Century, Lincoln South Rotary, Feb. 28, 2003, Lincoln, NE.

-Yang, Y. (as a speaker of the UNL Speakers Bureau) Textiles in the 21<sup>st</sup> Century, Optimist Club of Beatrice, Feb. 4, 2003, Beatrice, NE.

-Yang, Y.Q., Polylactic Acid for Textiles, presented to Corn Processors from Taiwan, requested by Nebraska Corn Board, Aug. 14, 2002

-Fan, Q., Dar, Y., Ugbolne, S., and Yang, Y.Q., The dyeable polypropylene via nanotechnology, National Textile Center, 10<sup>th</sup> Annual Forum, Feb. 10-12, 2002, Charlotte, NC.

-Yang, Y. Biotextile Engineering, Graduate Seminar, Department of Biological Systems Engineering, College of Agricultural Sciences and Natural Resources, UNL, Jan. 24, 2002, Lincoln, NE.

-Yang, Y. A New Textile Industry, Kiwanis Club of Lincoln Northeast, Jan. 23, 2002, Lincoln, NE.

-Yang, Y. Textiles in the 21<sup>st</sup> Century, Red Letter Day, Nov. 2, 2001, UNL, Lincoln, NE.

-Yang, Y. Textiles in the 21<sup>st</sup> Century, the Celebration of Youth, 4-H, and Nebraska Cooperative Extension, Sept. 29, 2001, UNL, Lincoln, NE.

-Yang, Y.Q., Dyeing with Disperse Dyes, in **Dyeing and Finishing of Textiles: Basics and Trouble Shooting Symposium, AATCC**, Hilton University Place, Charlotte, NC, Feb. 22-23, 2001.

-Yang, Y.Q., Genetic Modification of Cotton to Enhance Cotton's Performance Properties, Laboratory of Renewable Resources Engineering, and Textile Science Program, Purdue University, Nov. 22, 2000, West Lafayette, IN.

-Yang, Y.Q., "Laundering Mechanism", **Consumer & Family Economics Development Team Educators Workshop**, August 19, 1993, University of Illinois, Urbana, IL.

-Yang, Y.Q., "Durable Press Finishing and Its Recent Development", **Consumer and Family Economics Educator Workshop**, December 7, 1992, University of Illinois, Urbana, IL.

-Yang, Y.Q., Velayudhan, A., Ladisch, C.M., and Ladisch, M.R., High Speed Protein Chromatography Using a New Class of Continuous Stationary Phase, **Purdue University Workshop on Chromatographic Separations and Scale-up**, October 2, 1990, Purdue University, west Lafayette, IN.

-Yang, Y.Q., Velayudhan, A., Ladisch, C.M. and Ladisch, M.R., "A Type of Continuous Stationary Phase for the Rapid Liquid Chromatography of Proteins", **Purdue University workshop on Chromatographic Separations and Scale-up**, October 2, 1990, Purdue University, West Lafayette, IN.

-Yang, Y.Q., Ladisch, C.M. and Ladisch, M.R., "Freeze Concentration of Proteins, Salts, Surfactants and Dyes", **Purdue University workshop on Chromatographic Separations and Scale-up**, October 3, 1989, Purdue University, West Lafayette, IN.

#### **Presentation for Chemical, Fiber, Textile and Paper Companies**

-Yang, Y. Bio-based crosslinkers for starch. Mead Westvaco, Richmond, VA. Oct. 11, 2013.

- Yang, Y.Q., Hazard Identification and Substitution Technology of Textile Chemicals and Chemical Processes. Esquel Group, Gaoming, Guangdong, China. July 1, 2013.
- Yang, Y. Fiber Choice for Fabric Design. Procter & Gamble, Cincinnati, OH. October 9, 2006.
- Yang, Y. Fabric Chemical Treatment and Modifications. Procter & Gamble, Cincinnati, OH. October 9, 2006.
- Allen, C., Stewart, N., and Yang, Y.Q., Reducing the Effect of Barre in Fabrics Containing False-Twist Textured Yarn, **Wellman, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, August 2, 2000.
- Yang, Y.Q., Li, S., Some Current Dyeing/Finishing Researches at ITT, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, April 26, 2000.
- Yang, Y.Q., and Li, S., Trimer Control, **Wellman, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, September 28, 1999.
- Yang, Y.Q., and Li, S., Trimer Control and Elimination in Polyester Dyeing with Disperse Dyes, Milliken & Co., Abbeville Plant, Abbeville, SC, Nov. 11, 1999.
- Yang, Y.Q., and Li, S., ITT's New Analytical Capability in Dyeing and Finishing, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 27, 1999.
- Yang, Y.Q., and Li, S., Removal and HPLC Determination of Trimer from Disperse Dyed Polyester, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 27, 1999.
- Yang, Y.Q., and Li, S., Quality Control of Antibacterial Finishing, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 27, 1999.
- Yang, Y.Q., Li, S., Brown, H., and Casey, Dyeing of PTT/PET and PTT/Cotton Blends, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, April 28, 1999.
- Yang, Y.Q., and Li, S., Prescour for Trimer Removal, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, April 28, 1999.
- Yang, Y.Q., and Li, S., New Progress on One-Step Polyester/Cotton Dyeing with Disperse/Reactive Dyes, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 28, 1998.
- Yang, Y.Q., Li, S., Brown, H., and Casey, P., A New Textile Fiber: PTT and Its Dyeing Behavior, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 28, 1998.
- Yang, Y.Q., and Li, S., New Analytical Capabilities at ITT, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 28, 1998.

- Yang, Y.Q., and Li, S., One-Step Dyeing of Polyester/Cotton with Disperse/Reactive Dyes, **Wellman, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, July 16, 1998.
- Yang, Y.Q., and Li, S., Space Dyeing Technology, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, April 29, 1998.
- Yang, Y.Q., and Li, S., Removal of Oligomers for Disperse Dyeing of Polyester, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 29, 1997.
- Yang, Y.Q., and Li, S., Single-Bath, One-Step Dyeing of Polyester/Cotton with Disperse/Reactive Dyes, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 29, 1997.
- Yang, Y.Q., Polyester Alkaline Dyeing for the Control of Oligomer Deposition , **Wellman, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, June 27, 1997.
- Yang, Y.Q., Cellulosics Dyeing, Agracetus Cotton Fiber Technology Review, **Monsanto**, St. Louis, April 14, 1997.
- Yang, Y.Q., Antimicrobial Finishing, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, March 23, 1997.
- Yang, Y.Q., Wet-on-Wet Pad/Batch Dyeing of Circular Knit Fabrics, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, November 8, 1995.
- Yang, Y.Q., Decolorization of Acid dyed Nylon 6,6 Carpet, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, November 8, 1995.
- Yang, Y.Q., Environmental Programs at ITT, **Monsanto Chemical Company/ITT Partnership Meeting**, Pensacola, FL, June 20, 1995.
- Yang, Y.Q., Decolorization of Acid Dyed Nylon 6,6 Carpet, **Monsanto Chemical Company/ITT Partnership Meeting**, Pensacola, FL, June 20, 1995.
- Yang, Y.Q., Wet-on-Wet Pad/Batch Dyeing, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, April 26, 1995.
- Yang, Y.Q., A Primer on Low Level Formaldehyde Testing, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 26, 1994.
- Yang, Y.Q., Non Formaldehyde Fixatives for Direct Dyeing, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 26, 1994.
- Yang, Y.Q., Sodium Chloride and Sulfate Substitutions for Direct Dyeing, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October 26, 1994.
- Yang, Y.Q., The Effects of Package Geometry on Shade Levelness, **Fall Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, October

26, 1994.

-Yang, Y.Q., Attacking Environmental Issues through Process Change - Examples of Waste Minimization Opportunities, **Celebrating the Plant Manager**, Institute of Textile Technology, Greenville, SC, Sept. 22, 1994.

-Yang, Y.Q., Cellulase Treatment of Tencel Fabric, **Courtaulds Fibers, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, July 27, 1994.

-Yang, Y.Q., Influence of Salt in Nylon and Acrylic Dyeing, **Monsanto Chemical Company/ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, July 25, 1994.

-Yang, Y.Q., Polyester Dyebath Reuse, **Hoechst Celanese/ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, July 8, 1994.

-Yang, Y.Q., Salt Effect on Acrylic Dyeing, **Cytec Industries, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, June 30, 1994.

-Yang, Y.Q., Polyester Dyeing Studies, **Wellman, Inc./ITT Partnership Meeting**, Institute of Textile Technology, Charlottesville, VA, June 1, 1994.

-Yang, Y.Q., Dyebath Reuse - An Environmentally responsible and Cost Saving Technology, **Spring Technical Advisory Committee Meeting, Institute of Textile Technology**, Institute of Textile Technology, Charlottesville, VA, April 27, 1994.

#### **Funded Research**

-Nebraska Department of Road. NTRC Number: MPMC-13: New Mixture Additives for Sustainable Bituminous Pavements. 7-1-2016 to 12-31-2017. \$126,759. Yong Pak Kim (PI. 78%), YYang(co-PI. 22%).

-United Soybean Board, USB Project #1440-512-5296: Evaluating the potential of using soymeal as warp sizing agents. (\$101,463. 7-2014 to 9-2016; ). Approved by the Agricultural Marketing Service of USDA.

-Nebraska Research Initiative. David Oupicky (PI), Mark Carlson and Yiqi Yang (co-PI). "Development of bioactive polymeric meshes to reduce complications of hernia repair surgery." \$100,000. 7-1, 2014 to 6-30-2016.

-USDA Miltistate Research Project "SDC 345 (S1054) (NEB 37-037/S-1054): Biobased Fibrous Materials and Cleaner Technologies for a Sustainable and Environmentally Responsible Textile Industry" January 1, 2013- December 30, 2018. (\$23,000 for 2013; \$58,000 for 2014; \$10,000 for 2015; \$10,000 for 2016; \$10,000 for 2017). I chaired the proposal development team with 13 professors from ten major universities with textiles. They are Cornell, UC-Davis, UT-Austin, UGA, Montana State, Tennessee, Washington State, Colorado State, Wisconsin-Madison, and UNL.

-The Nebraska Environmental Trust. 7/1/2013-6/30/2016. "Composites and Regenerated Protein Fibers from Discarded Textiles." (Reddy, Co-PI., 10%), \$90,000 (\$45,000-2013+\$45,000-2014). (**NET Grant 13-142; NET Grant 13-142-2**. Composites and Regenerated Protein Fibers from Discarded Textiles.)

-The Nebraska Environmental Trust. 7/1/2012-6/30/2015. "Developing composites for automotive, furniture and construction industries from discarded carpets" (Reddy, Co-PI., 20%), \$106,531 (\$47,473-2012+\$59,058-2013). (**NET Grant 12-129 Developing composites for automotive, furniture and construction industries from discarded carpets**)

-Nebraska Corn Board. Fabrication of Zein Nanospheres for Potential Therapeutic Drug Delivery



Applications July 2010 to June 2013. \$147,158 (\$47,864 Year 1; \$48,482 Year 2; \$50,812 Year 3).

-The Nebraska Environmental Trust. 4/9/2010-6/30/2013. "Utilizing Poultry Feathers and Used Plastic Bags for High Value Products" (Reddy, Co-PI), \$100,000. (**NET Grant 10-116 Utilizing Poultry Feathers and Used Plastic Bags**)

-Nebraska Corn Board. Developing Green Thermoplastics from Distillers Dried Grains. July 2010 to June 2012. \$96,346 (\$47,864 Year 1, \$48,482 Year 2).

- Nebraska Research Initiative. Establishing a pilot-scale biofibers and bioproduct development facility to promote entrepreneurship and add value to Nebraska's agricultural byproducts and co-products. \$540,000 (2011.6-2013.12) (Narendra Reddy co-PI).

-The Georgia Peanut Commission. 7/2011-6/2012, "Smart Hydrogels from Peanut Proteins for Food and Medical Applications." \$5,000.

-UNL IANR. "Enhancing Interdisciplinary Research Activities within Biological Engineering at the University of Nebraska-Lincoln". FY2010 IANR Strategic Investments Research Strategic Planning Grant Program. \$14950. July 2010-June 2011. (as Co-PI with Angela K. Pannier (PI), Gregory Bashford, and Shadi Othman).

-UNL IANR, Enhancing Interdisciplinary Teams Grant, "Developing nanospheres from zein for therapeutic anti-cancer drug delivery applications". 7/2010 to 6/2012. \$60,000 (Brett White as collaborator for 18.7%).

-The Georgia Peanut Commission. 7/2010-6/2011, "Evaluating the Potential of Using Peanut Protein Isolates for Medical Applications". \$8,500.

-USDA Miltistate Research Project SDC318 (S1026), Textile Materials and Technologies Addressing Energy, Health and Other National Security Issues, 10-2006 to 9-2011 (\$22,000 for 2006; \$41,000 for 2007, \$214,000 for 2008; \$22,000 for 2009; \$22, 829 for 2010; \$22,829 for 2011; \$23,000 for 2012).

-University of Nebraska Foundation/Office of the Senior Vice Chancellor for Academic Affairs. Global Gateway Faculty Leader. *Global Gateways Initiative for TMTD China Study Tour*. November 2009-December 2010. \$52,500. (Michael James, Barbara Trout, Yiqi Yang Co-PIs. Yang 33%)

-Nebraska Center for Energy Sciences Research 10/2008-11/2009. "High Efficiency Acetylation of Biomass for Value-Added Bioproducts" (Narendra Reddy, Co-PI) \$35,000.

-Nebraska Wheat Board, 2008-2009. "Development of Wheat Based Automotive Composites Using Wheat Gluten as the Matrix Polymer and Wheat Straw as the Reinforcement Material" \$42,460.

-Washington Hop Commission, 7/2008-6/2009. "Understanding the Potential of Using Natural Cellulose Fibers from Hop Stems for Textiles and Composites. \$51,140.

-Department of Energy (DOE) through The Consortium for Plant Biotechnology Research (CPBR) (DOE Prime Agreement No. DEFG36-02GO12026). "High quality protein fibers from wheat gluten for industrial applications" 2006-2009. \$100,005 (\$50,005-2006/2007, \$50,000-2008/2009).

-Nebraska Wheat Board, 2007-2008. "Identifying Potential Medical Applications for Wheat Gluten and Gliadin Fibers". 7-1-07-6-30-08 \$51,560.

-Nebraska Wheat Board, 2007-2008. "Developing Composites from Natural Cellulose Fibers Obtained from Wheat Straw". 7-1-07-6-30-08 \$33,590.

- Nebraska Soybean Board, 2007-2008. “Improving the properties of soyprotein fibers and studying the suitability of the fibers for biomedical applications” 10-1-07-9-30-08 (\$35,600).
- Department of Energy (DOE) through the Consortium for Plant Biotechnology Research (CPBR). “Textile Applications of Corn Stover: Fiber Extraction and Product Development” 2005-2008. \$129,968 (\$64,988-2005/2006, DOE Prime Agreement No. DEFG36-02GO12026; \$64,980 2007/2008, Agreement No. GO12026-230).
- Process and property investigations of fibers from Nebraska’s agricultural products and by-products, HATCH project NEB- NEB 37-035, 4/2007-3/2012 (\$1,000 per year).
- Nebraska Research Initiative (Special equipment needs for planned emerging core facilities and unusual opportunities that will enhance our research capabilities or infrastructure). “ESTABLISHMENT OF A BIOFIBER RESEARCH AND DEVELOPMENT LABORATORY” \$168,000 from NRI. Feb-June 2007.
- Archer Daniels Midland Company, 2006-2008. “High quality protein fibers from wheat gluten for industrial applications” (\$31,700).
- Nebraska Wheat Board, 2006-2007. “High Quality Natural Cellulose Fibers from Wheat Straw for Industrial Applications”, (\$33,600-2006/2007 ).
- Nebraska Soybean Board, 2006-2007. “Novel protein fibers from soyprotein isolates for high value applications”, (\$34,100)
- Nebraska Wheat Board, 2005-2007. “High quality protein fibers from wheat gluten for industrial applications”, (\$31,810-2005/2006; \$32,000-2006/2007 ).
- The PolyPlus Co., Ltd. 2005-2006. “Using Biofibers from Annually Renewable Agricultural Products and By-Products for the Production of Biodegradable Composites”. (\$41,172).
- Department of Commerce through National Textile Center (Department of Commerce Grant 99-27-07400), “Dyeable Polypropylene via Nanotechnology”, 2001-2005 with Fan, Q., Ugbolue, S., and Wilson, A.R. of University of Massachusetts at Dartmouth. (\$350,000) (\$95,000-Y.Yang),
- Procter & Gamble, “Resistance of sulfur dyed fabrics to oxidative bleaching and acidic tendering: Improvement and application”, 2003-2010 (\$300,618)
- Prodigene, Inc., “Industrial Enzymes for Textile Applications”, 2003 (\$10,000).
- S1002, New technologies for the utilization of textile materials, 2002-2006 (\$9,000 per year).
- S1007, The science and engineering for a biobased industry and economy, 2003-2008 (\$25,000 per year for C. Weller, M. Hanna, D. Jones, and Y. Yang).
- Process and property investigations of fibers synthesized from Nebraska’s agricultural products and by-products, HATCH project NEB-94-028, 2002-2007 (\$1,000 per year).
- Nebraska Corn Board, “Antifreezer using Crude 1,3-Propanediol from Fermentation”, 2002-2003 (\$19,875).
- Prodigene, Inc., “Use of Plant-Produced Industrial Enzymes”, 2002 (\$10,000).
- University of Nebraska 2002 Art & Humanities, Research enhancement Fund, “International Textile

Works", 2002-2003 (\$7,500). With W. Weiss, D. Vigna, and M. James.

-Universal Fiber Systems LLC, "Elimination of Dye Streaks of Fabrics from Some Polyester and Nylon Yarns", 2000(\$15,000).

-Wellman, Inc. "One-Step Dyeing of A New Polyester/Cotton Blend with Disperse/Reactive Dyes", 2000 (\$10,000).

-Wellman, Inc. "Development of the Thermosol Dyeing Process of a New Polyester Fiber", 2000 (\$10,000).

-Wellman, Inc. "Investigation of Dyeing/Finishing Properties of A New Polyester Fabric", 2000 (\$40,000).

-Shell Chemical Company "Investigation on Dyeing Behavior of Some PTT (Polytrimethylene Terephthalate) Textiles". 2000 (\$4,000).

-Glen Raven Company "Elimination of Disperse Dye Streaks of Fabrics from Air Jet Textured PET Yarns". 1999 (\$12,000).

-Glen Raven Company "Elimination of Dye Streaks of A Fabric from Air Jet Textured Basic Dyeable PET Yarns", 1999 (\$11,000).

-Shell Chemical Company "Investigation on Dyeing and Finishing of PTT (Polytrimethylene Terephthalate) Textiles". 1997-1999(\$200,000).

-Associated Octel Company "Alusol <sup>TM</sup> for Textile Applications", 1997-1999(\$60,200).

-Glen Raven Company "Light Streak from Incomplete Texturing". 1998 (\$10,500).

-Shell Chemical Company "PTT (Polytrimethylene Terephthalate) Heat Setting and Its Effect on Yarn Dimensional Stability". 1998(\$10,000).

-Cotton, Inc. "Development of Neural Network for DMDHEU Durable Press Resin Finishing Process", with G. Moore, A. Urwick, and D. Alexander, 1997-1998 (\$23,700).

-Hickson Corporation "Investigation of An Aluminum Cationic Chemical for Textile Application", 1995-1996 (\$50,500).

-Polo Ralph Lauren "An Investigation of Tendering Mechanism of Reactive Dyed Cotton After Repeated Commercial Launderings", 1995-1996 (\$5,000).

-DuPont "Evaluation of End Groups and Morphological Structure of Nylon Fibers and Their Effects on Fiber Properties", with Subhas Ghosh, 1995-1996 (\$20,000).

-DuPont "An Investigation of Textile Properties of Nomex E-34T Fiber", with Subhas Ghosh and Jim Booterbaugh, 1995-1996 (\$20,000)

-State of Illinois Value-Added Grant for "The Development of a Novel Textile Fiber from Corn", 7/93-6/94 (\$14,000).

-State of Illinois Value-Added Grant for "Illinois Short-Rotation Plant Fibers as Raw Material for a New Technology Textile Fiber and Building Products", Mastura Raheel, Yiqi Yang, Phillip H. Geil, Poo Chow, Robert J. Lambert, and John T. Scott, Jr., 7/93-6/96. (\$55,894 for 7/93-6/94).

-Illinois Agriculture Experiment Station, "Structure and Dyeing Properties of Textiles by Liquid Chromatography over Packed Beds of Fabrics", 10/91 - 9/94 (\$67,500).

-Arnold O. Beckman Research Award(UIUC Research Board), "A Study of Structure and Dyeing Properties of Textiles by Liquid Chromatography", 2/92 - 5/93 (\$17,647).

-AATCC/HE Graduate Student Research Award for "A Study of Fiber Structure and Dyeing Properties by Inverse liquid Chromatography Over Packed Beds of Textiles", 1991(\$450).

### **Donations from**

-Fritz Hot Air Dyer (donated from Guilford, \$30,000), 2002 .

-Ahiba Polymat dyer (donated from Guilford, \$20,000) , 2002 .

-Seven inks for reactive inkjet printing (donated from Ciba, \$3,500) , 2002 .

-Textile fabric padding machine by L&W Machine Works(donated from Institute of Textile Technology, \$30,000), 2003.

-Seven inks for reactive inkjet printing (donated from Ciba \$3,500), 2003.

### **Administrative Services**

#### **University of Nebraska-Lincoln**

##### **Department**

-Member, Search Committee, Assistant Professor of Apparel/Fashion Design. (Fall 2014-Spring 2015)(TMFD).

-Chair, Search Committee, Research Assistant Professor, Textile Science. (2013) (TMFD)

-Chair, Promotion & Tenure Committee (Fall 2013-) (TMFD)

-TMFD Undergraduate Curriculum Committee (8/2012-)

-TMFD Faculty Advisory Council (8/2009-5-2012)

-Chair, TMFD Safety Committee (2/2009-5/2016)

-TMFD Asst. Prof - Merchandising position search committee member. June 2008-March 2009.

-Textile Science Post Doctoral Researcher Search Committee Chair (2007-2008)

-TMFD Foundation and Apparel Design Assistant Professor Search Committee member (2006-2007).

-Co-Chair, Textiles, Merchandising and Fashion Design Graduate Committee (Textile Science) (7-2015-5/2016)

-Chair, Textiles, Clothing and Design Graduate Committee (2/2005-8/2008)

-Textile Scientist Search Committee Chair (2004) (TMFD)

-Food Engineer Search Committee (2004) (BSE)

-John and Louise Skala Fellowships Review Committee (2002-2003) (BSE)

-Member, Promotion & Tenure Committee (2001-2013) (TMFD)

-Member, Promotion & Tenure Committee (2003-) (BSE)

-Graduate Committee Member (2001-2004, 8/2008-6-2015) (TMFD)

##### **College**

- Member, CEHS Graduate Committee, (Fall 2015-Spring 2016)

-Member, CEHS Promotion & Tenure Committee (Fall 2013-)

-CEHS Business Officer Search Committee (11-2009 -2-2010)

-CEHS Award Selection Committee (2008)

-Department of Teaching, Learning and Teacher Education, Senior position, Science Education, Search Committee member (2007 and 2008).

-Department of Teaching, Learning and Teacher Education Junior position, Science Education, Search Committee member (2006, 2007 and 2008).

-Member, CEHS Executive Graduate Committee (2005-2008)

-CEHS Grant Specialist Search Committee (Sept, & November, 2006)

-Textiles, Clothing and Design Chair Search Committee (2004 and 2005)

-CEHS Dean's Research Advisory Council (2005-2007)

-Research Policy Committee (2003-2004)

-Unit Review Committee, IRB Unit reviewer (2001-2003) (2006-, 2<sup>nd</sup> reviewer)

- International Minor Committee (2001)
- Institute of Agriculture and Natural Resources**
- Member of IANR Global Engagement Advisory Committee (Fall 2013- Spring 2014)
  - Member of the Search Advisory Committee for Dean of the Agricultural Research Division and Director of the Nebraska Agricultural Experiment Station, (September 2010-August. 2011)
  - Institute of Agriculture and Natural Resources Safety Committee (August, 2009-2011)
  - Agricultural Research Division (ARD) Advisory Council (June, 2003-June, 2006)
  - Agricultural Research Division Dean's search committee (2005)
  - ARD Advisory Council Subcommittee: Graduate Fellowships (Widaman, Hardin, Shear-Miles, Skala, and Moseman) and UNL Alumni Association Outstanding Graduate Assistant Award. (2003-2006)
  - ARD Advisory Council Subcommittee: Undergraduate Honors Student Research Program and Graduate Student Travel Grants (Whitmore and Larrick). (2003-2004)
  - ARD Advisory Council Subcommittee: Interdisciplinary Grant Program and Layman Fund Award (2004-2006).
  - ARD Advisory Council Subcommittee: University of Nebraska Foundation Endowment Programs (2004-2006, chair 2005-2006)
  - ARD Advisory Council Subcommittee: Charles B. & Katherine W. Baker Fund (2006).
- University**
- Member of the Search Committee for University of Nebraska Vice President and University of Nebraska-Lincoln Vice Chancellor for Agriculture and Natural Resources (5-10. 2016).
  - Chair of the Gamma Sigma Delta Research Award committee (2014)
  - Member of the Gamma Sigma Delta Research Award committee (2012-2013).
  - International Programs Advisory Council, member (2009-2010)
  - NU system the Awards Selection Committee for the Innovation, Development and Engagement Award (2008-2010).
  - UNL the Harold and Esther Edgerton Junior Faculty Award review committee member (2008, 2009, 2010)
  - UNL Confucius Institute, Associate Director Search Committee member (2007)
  - Academic Senate (2002-2005; 2009-2011)
  - The academic senate committee for recruitment and retention of faculty of color (2004)
  - Nebraska Speakers Bureau (2002-2003)

**Institute of Textile Technology**

- Steering Committee member, SACS (Southern Association of Colleges and Schools) Review (2000-2001)
- Chairman, Dean's Search Committee (2000)
- Strategic Advisory Committee to the President of ITT (1999)
- Academic Committee(1994-1995, 1997-1999, 2001)
- Faculty Advisor, ITT Student Chapter of AATCC (1998-2001)
- Faculty Credentials Committee(1995, 1997-2001)
- Library Committee(1994-1995, 1998-2001)
- Facilitator, Technical Analysis and Research Team (1994-1995)

**University of Illinois**

**Division:**

- Undergraduate Programs Committee(1991-1992)
- Visiting Student Program Liaison of Fashion Institute of Technology (1991-1993)
- Hospitality Committee(1992-1993)

**School**

- Space Committee(1993)

**College**

- College of Agriculture Open House Committee(1993-1994)

**Community Services**

**Lincoln Chinese Cultural Association**

Vice President 2004-2007

Member of the standing committee 2003-2004