



**Sustainability: How **YOU** Can Make a Difference**

**SHOWCASE OF EXCELLENCE**

Apparel and Textile Juried Runway Show and Mounted Exhibit

**May 1, 2014 . 7:00 PM . ALUMNI CENTER**

Department of Apparel, Textiles,  
& Interior Design

# **SUSTAINABLE VISION**

**We believe the human ecological framework drives us toward a shared concern for sustainability. We hope to improve the human condition and be part of the solution to the social and ecological problems we face. Our educational goal is to prepare students with the knowledge and skills needed to live and work in diverse societies, improving the lives of individuals throughout the world. We value the potential of our students and commit our effort to enhancing their lives and the quality of all human life.**

# Did you know?



Dye in river

## **The global apparel and textiles industry:**

- **annual revenue totals over \$3 trillion**
- **accounts for 10% of green house gas emissions**
- **annual production of 132 billion lbs. of fabric uses**
  - **1 trillion kw hours of electricity**
  - **2.4 trillion gal. of water**
- **generates 20% of all industrial water pollution from dyeing and finishing**
- **has 15% fabric waste from patterning and cutting**

The U.S. consumer throws away how many pounds of clothing each year?



## **Answer: 70 pounds**

- **U.S. consumers donate only 10% of unwanted clothing, many do not know that torn clothing and worn shoes can be donated**
- **However, 1/3 of donations go to Africa which undermines its own apparel industry**
- **Between 1999 and 2009 the amount of textiles going to U.S. landfills increased by 40%**

What percent of a garment's carbon footprint occurs during consumer care (laundry)?



## **Answer: 60% for washing, 80% for drying**

- **U.S. households consume 16,400 gal of water per year doing laundry**
- **The average American uses 176 gallons of water per day compared to 5 gallons of water the average African family**

The textile industry is the second heaviest industrial consumer of water, behind agriculture



- **Two hundred tons of fresh water is needed to manufacture one ton of textiles**
- **The average sized textile manufacturing facility consumes 423,000 gal. of water per day**
- **It takes 2866 gal. of water to produce, dye and finish one pair of jeans**



## Fiber Facts



- **60% of all insecticides and 11% of all pesticides applied annually are administered to cotton**
- **The primary raw material used in manufacturing polyester is petroleum**
- **Methane, released from livestock, is the second most prevalent greenhouse gas**



Sustainability: How **YOU** Can  
Make a Difference

**SUSTAINABLE CONCEPTS**  
to address environmental challenges

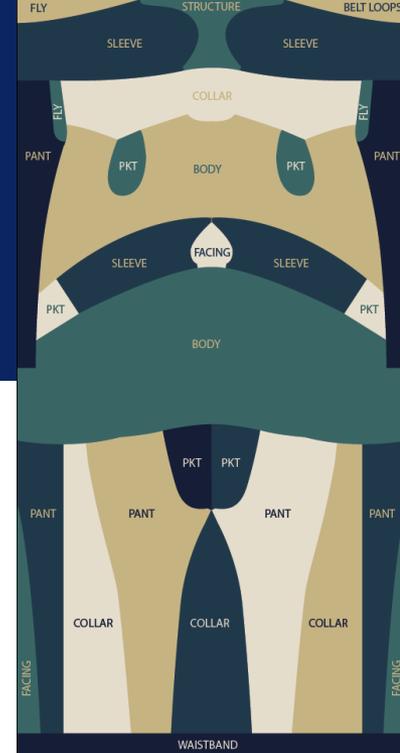
# LOW IMPACT materials & processing

- **Organic, low chemical, low energy**
- **Recycled fibers**
- **Alternate fibers** (soy, hemp, casein, bamboo)
- **Biodegradable**
- **Natural dyes or naturally colored**
- **Low-water or waterless dyeing**
- **Digital and sublimation printing**



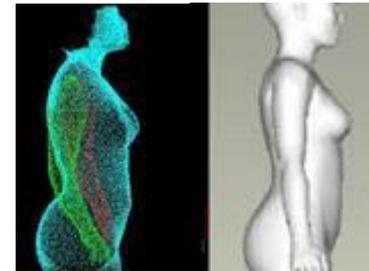
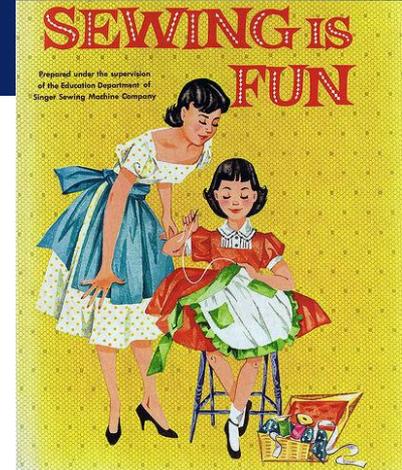
# DESIGN

- **Zero or low waste**  
*economical fabric use*
- **Adaptable**  
*multi-function or modular*
- **Upcycle**  
*add value to existing product*
- **Slow Design, Durable, Eco-Couture**  
*well-made*
- **Emotional Durability**  
*makes connections so keep longer*



# DESIGN cont.

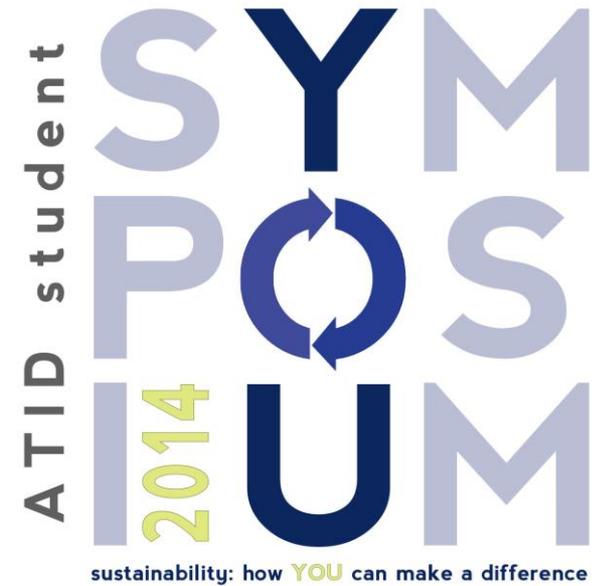
- **Traditions & Craft**  
*respect culture, heritage & traditional arts*
- **Participatory Design**  
*involve users in design process*
- **Local**  
*utilize local resources*
- **Technology**  
*nanofiber, body scanning, performance fibers, microbes*



# CONSUMPTION - CARE - DISPOSAL

- Fair trade
- Repair, reuse, donate, recycle
- Purchase second hand and vintage
- Product service system
  - Rent and return*
- Educate
  - Hang tags*



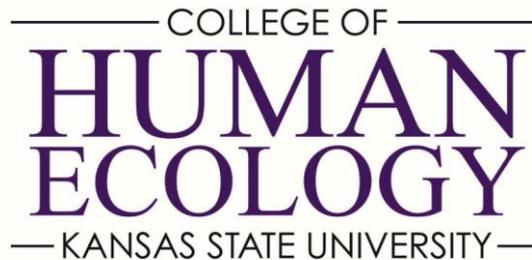
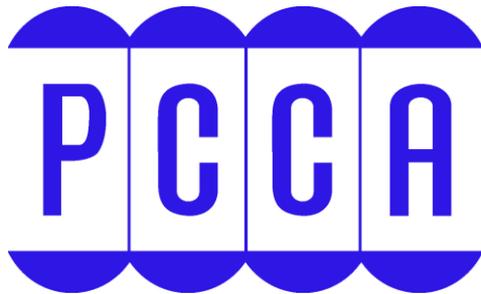


We sincerely appreciate the efforts of those who contributed to this event.

**THANK YOU!**

# In Appreciation

## To Our **PLATINUM** Sponsors



# Richard Rees

*Donated in Memory of Janet Lee Rees*

# In Appreciation To Our **GOLD** Sponsors

THE  
SEWING  
WORKSHOP  
PATTERN COLLECTION



PGM-Pro  
Dress Form \* Pattern Tools

In Appreciation  
To Our **GOLD** Sponsors



# In Appreciation To Our **SILVER** Sponsors



Hufft Projects



# In Appreciation To Our **SILVER** Sponsors

STAFFELBACH

Steelcase



BensonWedd

BA designs  
*a positive look at furniture and design*



Knoll

Kansas Sheep Council

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To Our **SILVER** Sponsors

**Barbara Anderson**

**Jami Dunbar**

**Migette Kaup**

**Jo Kimbell**

**Taylor Stucky**

A Special Thanks  
**Hankyong National University**

**Dr. Tae Beomseok, President**  
**Dr. Sung-jin Kim, Past President, K-State Alumni**

Welcome to our Guests:  
**Dr. Kyungmee Lee**  
**Hyejin Kang, Student Designer**  
**Minji Kim, Student Designer**  
**Jisoo Lee, Student Designer**

Be sure to view their designs in the Mounted Exhibit

# A Special Thanks

## High School Student Participants

**Ryal Mitchell, Bishop Seabury Academy**

**Kenzie Jones, Elkhart High School**

**Miranda Hicks, Elkhart High School**

**Samantha White, Tonganoxie High School**

**Mckenzey Hanna, Elkhart High School**

**Ashley Sutphin, Olathe Northwest High School**

Be sure to view their designs in the Mounted Exhibit

In Appreciation  
To Our **PANEL OF JUDGES**

High School Submission Jury:

**Gina Bergin**

**Marla Day**

**Juanelle Garretson**

K-State Submission Jury:

**Ralph Diaz**

**Laura Hovind**

**Linda Lee**

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To Our **HAIR & MAKE-UP** Experts

Gaia :

**Mary Fischer, Owner**

**Ralph Diaz, Owner**

**Mindy Dolan**

Bellus Academy :

**Deena Gilbert, Marketing & Event Coordinator**

**Lynelle Lynch, Owner**

**David Yocum, Director**

**Stylists**

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# **K-STATE STUDENT SHOWCASE VOLUNTEERS**

**Landon Kern, Team Leader**  
**Shelby Brasfield**  
**Sarah Witcher**  
**Amara Giersch**  
**Cory VenJohn**  
**Allison Vahling**  
**Arianna Levin, Team Leader**  
**Lizzie DeGroat**  
**Katie Riedesel**  
**Kendra Hornbaker**  
**Sophia Alonso**  
**Denise Wilkinson**  
**Evan Ann Boose**  
**Abigail Heausler**  
**Kathryn Fallon**  
**Autumn Bolluck**  
**Rylee Bacon**

**Barrett Coughlin, Team Leader**  
**Natalie Johnston**  
**Amber Harvey**  
**Mercedes Reyes Garcia, Team Leader**  
**Mallory Howard**  
**Jennie Smithies**  
**Brittany George**  
**Alexis Horne**  
**Jessica Cassity**  
**Kimberly Gottschalk, Team Leader**  
**Virginia Davis**  
**Aaron Simon**  
**McKenzie Tignor**  
**Kristin Nycklemoe**  
**Samantha Bamford**  
**Cheryl Yacenda**  
**Shuyi Huang**

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## **SHOWCASE VOLUNTEERS**

**Hannah Schuh, Advisor**

**Barbara Anderson, Chair**

**Sherry Haar, Faculty**

**Marla Day, Faculty**

**Kim Hiller, Faculty**

**Dawn Sommers, Faculty**

**Linda Lee, Advisory Board**

**Lauren Chard, Alumni Center**

**Brooks Kelchin, Alumni Center**

**ATID Faculty and Staff**

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To Our **INDUSTRY MENTORS**

**Andrea Albright**

**Jamie Banzhaf**

**Jami Dunbar**

**Deb Gordon**

**Carolina Holden**

**Laura Hovind**

**Kathy Olds**

**Leah Parsons**

**Karen Rickert**

**Hannah Sigvaldson**

**Kristin Wedner**

**Carmen Zolman**

Professional mentors partnered with K-State student teams to consult on project development

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To Our **APPAREL & TEXTILE**  
Advisory Board

**Andrea Albright**

**Jamie Banzhaf**

**Jami Dunbar**

**Thad Halstead**

**Laura Hovind**

**Linda Lee**

**Hong Mei**

**Karen Rickert**

**Dawn Sommers**

**Linda Steinbring**

**Jennifer Thornton**

**Lauren Uppington**

**Erin White**

**Carmen Zolman**

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**Kali Buchanan**  
**Kara Bush**  
**David Dieckman**  
**Kristin Goodman**  
**Emily Hayes**

**Jo Heinz**  
**Jo Kimbell**  
**Roger Reed**  
**Phil Ross**  
**Samantha Schwarz**  
**Taylor Stucky**  
**Audrie Wenger**