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ANNOUNCING

Fiber Science & Apparel Design Department Move

by FRAN KOZEN

The Department of Fiber Science and Apparel Design is moving to new quarters this summer, in the addition on the back of Martha Van Rensselaer Hall overlooking Beebe Lake. While we are all very excited about the prospect of shiny new space, cleaning out and packing is quite a project! Phone numbers and emails remain the same.

New Office Locations

Charlotte Coffman	235
Ann Lemley	T57A
Amy Galford	271
Fran Kozen	T35



Meet Emily Parkinson: CCE/CHE Summer Intern

by CHARLOTTE COFFMAN



Emily Parkinson, FSAD '12, was awarded a 2011 Cornell Cooperative Extension/College of Human Ecology internship to work with FSAD faculty on the project *Smart Clothing Applications for Youth Programs*. She will develop five 2-hour activities that explore material properties, design principles, construction techniques, and electronics, and will bring those experiences together with a real-world take-home project. Emily will test these activities with middle school girls at 4-H Camp Bristol Hills in Ontario County and Hidden Valley 4-H Camp in Schuyler County. Assessments from these experiences will help guide the development and implementation of a *Smart Clothing* curriculum for youth. Smart clothing is much in the news these days, particularly in sports, medical, and military applications.

Emily is well suited for this opportunity. She is a member of the Cornell Fashion Cooperative and contributed to the 2010 Feedbak/Pendleton apparel line. In the spring of 2010, she participated in an apparel research project, learning to use the 3D body scanner, 3D Optitex software, and Optitex patternmaking techniques to develop virtual garments. She has made and altered costumes for the Boston Ballet and the Kearsarge Arts Theater. Emily also taught skirt design, bag making, and jewelry making classes to middle school students through Exploration Summer School in Massachusetts. We are excited to welcome her to FSAD and 4-H and look forward to an exciting summer.

Cornell Fashion Collective (Cornell Design League)

by FRAN KOZEN

The 27th Annual Runway Show of the Cornell Fashion Collective took place April 16. This student-run show featured 65 designers and 200 garments. For a look at the show, check out the slideshows at

<http://cornellsun.com/features/slideshow/2011/04/17/cornell-fashion-collectives-annual-show> and

<http://www.news.cornell.edu/stories/April11/FashionShowCover.html>. You might

also enjoy videos at <http://www.cornell.edu/video/?VideoID=1223> and

<http://cornellsun.com/content/videos/2011-cfc-fashion-show>.



4-H Uniform Exhibit at Mann Library

by CHARLOTTE COFFMAN



This year marks the 100th anniversary of Cornell Cooperative Extension of which the NYS 4-H Program is a vital part. In tribute to the important work of both organizations, a 4-H Uniform exhibit is on view for the summer at Cornell's Mann Library. The exhibit includes uniforms on mannequins; a jacket, beanie, scarf/tie, and badges in a display case; and a poster explaining the history of the 4-H uniform.

Thanks to the following persons for the loan of these items:

- Dress: Jan Smith, CCE-Oswego County
- Dress: Jan Scholl, Pennsylvania State University
- Jacket: Marylin Russell, Sullivan County
- Jacket: Kim Fleming, CCE-Administration
- Beanie: Mary Ann Scharmberg, Livingston County
- Scarf/tie: Debbie V. SeGuin, CCE-Madison County
- Poster: Jan Scholl, Pennsylvania State University

See also RECALLING TRADITIONS,
A Look Back at the 4-H Uniform, pp. 4

4-H Uniform Exhibit
Cornell Campus, Mann Library
First Floor (behind the elevators)
Duration: Until mid-September
Hrs: M-Th (8AM-6PM); Fri (8AM-5PM); Sat (1-5PM)
Library is closed July 2-4 and all
Sundays through August 9
To verify hours, check
<http://mannlib.cornell.edu/hours>

ENGAGING YOUTH

Summer Fiber Science & Apparel Design Youth Calendar

June 28-30	4-H Career Exploration, "Upcycled Clothing: Transform old clothes into new and useful items"	Cornell Campus
July	4-H Camps, Smart Textiles programs	Canandaigua, Watkins Glen
August 25-September 5	State Fair	Syracuse Fair Grounds

Support for 4-H Activities at NYS Fair

by CHARLOTTE COFFMAN



The 4-H Science Engineering & Technology Program Work Team and the New York State 4-H Office annually recruit sponsors to support county staff and volunteers who lead hands-on activities at the NYS Fair. This summer, FSAD is offering \$75 to county 4-H associations who will engage young fairgoers with activities from In-Touch Science, Simple Gifts, the Fabric/Flight Connection, or Plants & Textiles. The funds are to be used to purchase supplies; promotional materials and consultation are provided by FSAD. Participating counties must offer these activities for three days during the fair and complete an online feedback form. To review the complete list of available activities and reserve your favorite, logon to State Fair - Information for Staff and Key Volunteers <http://nys4h.cce.cornell.edu/events/Pages/StateFair-InfoforStaff.aspx> and scroll down to Hands-on Activity Booths. See you at the fair!

Clothing & Textile Guidelines for Fair Entries



Several years ago, a statewide committee formed to address some of the issues related to exhibiting clothing and textile items at the NYS fair. Committee members held long discussions and drafted documents on a variety of topics. How can we recognize youth for their hard work, creativity, and excellent products? How can beginners be encouraged to improve a little every year? What training should be provided for judges? What type of feedback truly benefits youth? How should we handle different skill levels?

State Fair 4-H Evaluation Coordinator, Pam Castro, and I compiled and updated those drafts in an effort to clarify expectations for 4-H members, leaders, educators and judges. These documents have been posted online at State Fair - Information for Staff and Key Volunteers <http://nys4h.cce.cornell.edu/events/Pages/StateFair-InfoforStaff.aspx>. Scroll

down to Tips for Exhibitors and click on [Clothing & Textiles tips and judging guidelines for evaluators, youth and families](#). This .pdf file is a bundle of several documents:

- Textiles & Clothing: Evaluation Philosophy
- Textiles & Clothing: Seams – Quick Definitions
- Textiles & Clothing: Seams – Judging Guidance
- Textiles & Clothing: Construction Technique Tips
- Textiles & Clothing: Seams – Types, Techniques, and Tips
- Textiles & Clothing: Sewing Levels
- Textiles & Clothing: Construction (beginner) Evaluation Form
- Textiles & Clothing: Constructions (intermediate and advanced) Evaluation Form

Please use these documents in your counties and at the state fair. Then, give Pam or me feedback on what worked and what didn't. Or maybe what you need for the next step. We are listening.

Pamela Castro, pac11@cornell.edu

Charlotte Coffman, cwc4@cornell.edu

NY Teens Met in Syracuse for STARR

by FRAN KOZEN

Teens from across NY spent April 15-17 at the NYS Fairgrounds in Syracuse at the annual State Teen Action Reps Retreat (STARR).

Participants enjoyed interactive workshops that focused on youth

community action and

leadership skills. Fran

Kozen offered a workshop

entitled *Fabulous Fabrics:*

Indigo Magic. Youth

learned about indigo dye and its oxidizing properties, and used

indigo as they experimented with tie dye styles and batik

techniques. Then, they experimented with ways to remove indigo

to “distress” jeans, from wire brushes and sandpaper to bleach

pens.





Try indigo dyeing yourself:

If you would like to dye with indigo, inexpensive and easy to use kits are available at Dharma Trading Company

(<http://www.dharmatrading.com/html/eng/6991799-AA.shtml>).

The Dharma Trading website includes a very good “how-to” article on Shibori dyeing (traditional Japanese folding, binding twisting technique to make patterns) using the indigo dye kit

(<http://www.dharmatrading.com/html/eng/9922990-AA.shtml>).

There is also a tutorial on dyeing white canvas sneakers with the indigo kit (<http://www.dharmatrading.com/html/eng/10800802-AA.shtml>).

High School Fashion Design Competition

by FRAN KOZEN

For the second year, the Cornell Department of Fiber Science & Apparel Design held a national design competition for high school students. The challenge this year was to design the perfect outfit to wear in the year 2020 to a reception on the moon celebrating the first extraterrestrial colony. Two hundred and fifty sketches from all over the country were submitted. The winner, Tiffany Zhang, from California, was invited to the Cornell Fashion Collective Show to receive her award and see it made up. It was constructed by a team of FSAD students and alumni.

To see Tiffany’s idea modeled at the show, go to

<http://www.news.cornell.edu/stories/April11/FashionHighSchool.html>.



CONCERNING CONSUMERS

Why Wrinkle Free Shirts Wear Faster

by FRAN KOZEN



We all like the softness, absorbency, and breathability of 100% cotton tailored shirts, but the majority of us dislike ironing them. Scientists have been working since the 1950s to develop “wrinkle-free”, “wrinkle-resist”, “no-iron”, “durable press, or “permanent press” cotton and save us from ironing. A Brooks Brothers executive estimates that at least 85% of men’s woven shirts today are non-iron. These products offer great consumer benefits, but they do have some drawbacks, particularly reduced durability.

The basic premise behind wrinkle free technology is modification of cotton molecules to form of “cross-links”, rather like the rungs of a ladder, across molecules. Chemical resins are applied, and then the fabric is “cured” using heat. The cross links snap into place after laundering, making the cotton smoother. The creation of the molecular cross-links not only reduces

wrinkles, but it makes the cotton brittle, causing fabric to tear easily or to wear quickly at abrasion points such as cuffs and collars. The extent of strength loss caused by treatment is highly variable, depending on the amount and type of chemicals used and the “curing” conditions, as well as the quality of the cotton, and the weight and construction of the fabric. There is no industry standard method of treatment, so manufacturers strive to find the correct balance of wrinkle recovery and wear for their customers. The best advice for purchase of good shirts is to stick with well known brands. *Consumer Reports* found that shirts from Lands’ End, L.L.Bean, Stafford, Brooks Brothers, and Jos. A. Bank stayed wrinkle-free throughout the day, kept sharp creases, and were aesthetically satisfactory (see link below).

You may be aware that many of the chemicals used over the years to impart wrinkle resistance created other problems, as well. Early products contained significant amounts of formaldehyde, ultimately determined to be a safety hazard because it slowly released from the shirts. Resins today typically contain very low levels of formaldehyde to eliminate chemical hazard. Other compounds caused fabric yellowing, fabric breakdown when shirts were ironed, oily stain retention, or left the shirt stiff and uncomfortable. Some simply cost too much. Scientists continue to search for the perfect way to create a no-iron shirt which is soft, breathable, and will hold a crease.

Sources:

“An Old Wrinkle for New Clothes”, Cotton, Inc., <http://lifestylemonitor.cottoninc.com/LSM-Issue-Spring-2010/Wrinkle-Resistant-Cotton-Shirts/>.

“The Evolution of Durable Press and Flame Retardant Cotton”, American Chemical Society, 2004, <http://portal.acs.org>.

“Toss the Iron: Wrinkle Free shirts that Work”, www.consumerreports.org/cro/home-garden/beauty-personal-care/apparel/wrinkle-free-shirts-3-07/overview/0307_shirts_ov_1.htm.

EXPLORING FIBERS AND FABRICS

Coldblack®

by FRAN KOZEN

Would you choose a black bicycling jersey on a hot summer day? Probably not, because you expect dark colors to absorb sunlight and become very hot. Fabrics treated with Coldblack® reflective finish by Schoeller Textiles AG, a Swiss firm known for innovative textile technologies, have changed that. Coldblack® fabrics remain cool to the touch and do not transmit either heat or ultraviolet rays to the wearer. Testing on special mannequins shows that perspiration will be much reduced by wearing Coldblack® fabrics as compared to other dark colored fabrics. As the finish does not interfere with fabric breathability, it offers a comfortable option for active sports.

Coldblack® was named a “Best of What’s New 2008” by Popular Science, and in 2011 was nominated for the German Design Award. Look for it in clothing for bicycling, golf, ski touring, and more.

Source: <http://www.schoeller-textiles.com/en/technologies/coldblack.html>.



RECALLING TRADITIONS

by REMANU PHILLIPS and CHARLOTTE COFFMAN

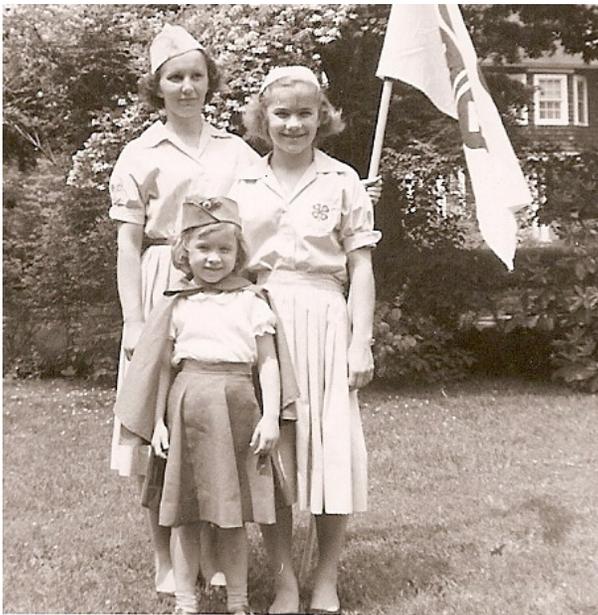
A Look Back at the 4-H Uniform

4-H (Head, Heart, Hands, Health) is the youth development program of the nation's 109 land-grant universities and the Cooperative Extension System. In New York, the land-grant institution is Cornell University and Cornell Cooperative Extension is 100 years old this year. 4-H is the largest youth-serving organization in the US and NYS 4-H educators annually engage roughly half a million youth in *learn by doing* experiences.

The 4-H emblem, a four-leaf clover with the letter *H* in the center of each lobe, is widely recognized and you might observe 4-H members wearing clothes that bear this emblem. In fact, you might wonder whether 4-H has an official uniform. Although 4-H has had official uniforms in the past, their design, materials, and use varied among clubs, communities, and states and evolved differently in different places. Today, 4-H members may decide to wear a garment sporting the 4-H emblem or featuring the 4-H green and white colors, but there is no obligation to wear a uniform when participating in 4-H events.

Most researchers describe the first photographed (1911) 4-H uniform as a two-piece dress with a sailor collar. A club apron with the 4-H Clover printed over the heart and a matching cap also became popular. The 1930s saw pleated skirts and knickers and blouses with detachable collars. Uniforms of the 1940s reflected the wartime restrictions on materials so garments were cut closer to the body, sleeves were shortened, and extras such as pockets and cuffs were omitted. Two-piece dresses with full skirts and parade capes were popular during the 1950s. In the 1970s a shift style mini-dress was often worn with a jacket. With each decade, the uniform changed, new sewing patterns became available, and catalogs provided mail-order convenience. Today, 4-H uniforms continue to be used in livestock events and ambassador or other special events with jackets, bandanas, and caps as the most popular garments.

To put this in context of what a well-dressed NY 4-Her might have worn, let's take a quick look into the photo albums of a few 4-H members.



For the Stuyvesants in Nassau County, 4-H was a family affair. Cathy Stuyvesant (front) was a 4-H member. Carol Stuyvesant (middle) was a 4-H Junior Leader. Their mother (back) was a 4-H Leader. 1960s.



Brian and Beth Parker display their prize-winning pies at the Wyoming County fair. Beth is wearing the popular green and white striped shift with the 4-H Clover emblem.



This ensemble is featured in the 4-H Uniform Exhibit at Mann Library (see Announcing, pp 1). It was sewn and worn by Marion Hannum who served for more than 62 years as a 4-H Leader of the Hannibal Center Bluebirds club in Oswego County. 1960s.

For a look at photos of other uniforms worn by NY 4-Hers, check out these links to the College of Human Ecology Archives:

<http://he-photos.library.cornell.edu/image.php?record=138>

<http://he-photos.library.cornell.edu/image.php?record=139>

<http://he-photos.library.cornell.edu/image.php?record=247>

<http://he-photos.library.cornell.edu/image.php?record=257>

<http://he-photos.library.cornell.edu/image.php?record=146>

If you would like copies of the 4-H Uniform poster used in the Mann Library exhibit (Announcing, pp 1), contact Jan Scholl, Pennsylvania University, jfs9@psu.edu.

If you would like to make a 4-H Hat to celebrate Cornell Cooperative Extension's Centennial, try this version generously provided by Carol Stuyvesant.

<http://www.human.cornell.edu/fsad/outreach/resources/loader.cfm?csModule=security/getfile&pageid=68844>

Resources

Calvi, Jennifer. The 4-H Uniform-A Woven History of RESPECT. June, 2001. <centennial.tamu.edu/downloads/4-H_Uniform.doc>

Dueppengiesser, Roxanne, Personal communication

Scholl, Jan. Personal communication.

Smith, Janette. Personal communication.

Stuyvesant, Carol. Personal communication

Vintage Kids Clubs Online Museum <<http://www.vintagekidstuff.com/4hclub/4hunifrom/4hunifrom.html>>