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## 2013 CCE Summer Internships

CATEGORY ARCHIVES: [ENGAGE YOUTH IN STEM LEARNING AND RESOURCE DEVELOPMENT THROUGH INNOVATIONS IN ACTIVEWEAR](#)

### Broome County Workshop

Posted on **July 21, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

High School students from Broome County visited the Fiber Science / Apparel Design department for a two day workshop on July 17th and 18th. This workshop was a fusion of learning the properties of Activewear and basic techniques of Videography. In this workshop, the two girls ran through lab experiments based on material design, and explored filming essentials, such as script writing, filming, lighting, and editing.



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### The Human Loom

Posted on **July 21, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

To explore Woven vs Knit structures, participants of Teen Focus created a “Human Loom”. In this experiment, the majority of students held tension on warp yarns, while one student represented a weft yarn. We experimented with different plain weave and basket weave structures, with different up and down patterns of the warp yarns.



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## Mobility

Posted on **July 21, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

One lucky participant was hooked up to a 3D Motion Capturing Device, with sensors all over the body. With this data being wirelessly transferred to a computer, we were able to generate an avatar while she walked! Applications of this technology range from computer animation in movies to, what we use in our department, testing mobility in protective clothing.



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## Lycra Bags

Posted on **July 21, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

To explore the differences between stretchy / performance fabrics, we had students put on Spandex / Lycra bags. Although this was a material design experiment / activity, we also looked into the problems of good fit and construction techniques, so an athlete would be able to perform their best!



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## Impact Protection

Posted on **July 21, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

Participants analyzed the aesthetic and functional design of sports equipment, in respects to the balance between mobility and impact protection!



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## Teen Focus Update!

Posted on **July 21, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

Careers Exploration 2013 was a great success! Our 4H Teen Focus “Activewear Advantage” explored the great



properties of activewear.

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## 4H Teen Focus 2013: The Activewear Advantage!

Posted on **June 9, 2013** by [epb58@cornell.edu](mailto:epb58@cornell.edu)

My name is Eric Beaudette, and I am a rising sophomore in the Fiber Science / Apparel Design department, and am very excited to be working on the 4H Teen Focus project for the 2013 year! I will be spending a lot of my time in the Human Ecology Building this summer, working to create experiments, and prepare professors to speak for the Careers Exploration 2013!

This year's Fiber Science / Apparel Design's workshop in this year's Career Exploration is The Activewear Advantage!

In this workshop... Teens will be learning the properties of activewear that help athletes to achieve their optimum level of performance. These properties introduced are:

Fit and Construction

Thermoregulation

Impact Protection

Fabrics and Finishes

Mobility

Each of these topics will be accompanied by the introduction of a professor, in our department, who is doing innovative research!

Dates of the Workshop – June 25-27th

With this workshop, we hope to, through experiments, guest speakers, and their own chance to design sportswear equipment, participants will understand the industry of activewear, which is built upon the frameworks of Design and Science!

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