

# **The Fiber Society Fall Meeting and Technical Conference 2014**

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## Wednesday, October 22

- 7:30 Registration (CHF Entrance) and Continental Breakfast (Back of Ullyot Room, 1<sup>st</sup> Floor, CHF)
- 8:30 Welcoming Remarks, Business, and Announcements (Ullyot) *Caroline Schauer, Chair, Drexel*  
*Aleister Saunders, Vice Provost for Research, Director of the RNAi Resource Center, Drexel*  
*Michele Marcolongo, Head, Department of Materials Science and Engineering, Drexel*  
*Janice R. Gerde, President, The Fiber Society*
- 8:50– Plenary Speaker: Geneviève Dion, Assistant Professor, College of Media Arts and Design,  
 9:35 Drexel University, *Digital Fabrication of Textile Devices*

### Morning Session

|       | Room: Ullyot  | Room: Franklin (2 <sup>nd</sup> Floor)  |
|-------|---|---|
|       | <b>Session: Advanced Textiles I</b><br><i>Geneviève Dion, Chair</i>   | <b>Session: Transportation and Building</b><br><i>Christopher Pastore, Chair</i>  |
| 9:50  | <i>Natural Fiber-Welded Electrode Yarns for Knittable Textile Supercapacitors...3</i><br>Kristy Jost, Drexel University   | <i>Multimaterial Preforming of Structural Composites...15</i><br>Christopher M. Pastore, Philadelphia University                                  |
| 10:10 | <i>Functional Nanofibrous Materials: Controllable Fabrication and Applications...5</i><br>Bin Ding, Donghua University  | <i>Investigation of Potential of Biopolymer Fabrics for Application in Automotive Interiors...17</i><br>Jeanette Ortega, Johns Hopkins University |
| 10:30 | <b>Break</b>  |   |
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| 11:45 | <b>Lunch On Your Own; Poster Setup (Second Floor Overlook)</b>  |   |

### Afternoon Session

|               |  |                     |                             |
|---------------|--|---------------------|-----------------------------|
| 1:15–<br>2:30 | <b>Student Paper Competition</b>   | <b>Room: Ullyot</b> | <b>Chair: Glen Simmonds</b> |
|               | <ul style="list-style-type: none"> <li>•Duo An, Cornell University, <i>Developing Robust, Hydrogel-based, Nanofiber-enabled Encapsulation Devices (NEEDs) for Cell Therapies</i></li> <li>•Ming Yao, University of Texas-Austin, <i>Fabric Wrinkling Evaluation by 3D Surface Reconstruction and Characterization</i></li> <li>•Imalka Munaweera, University of Texas-Dallas, <i>Novel Radiotherapeutic Electrospun Acrylonitrile-based Fiber Mats for the Treatment of Skin Cancer</i></li> </ul> |                     |                             |
| 2:30          | <b>Break</b>   |                     |                             |

|      | Room: Ulliyot   | Room: Franklin  |
|------|---|---|
|      | <b>Session: Energy</b><br><b>Vibha Kalra, Chair</b>   | <b>Session: Medical I</b><br><b>Minglin Ma and Jessica Schiffman, Chairs</b>  |
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### Evening Session

|           |  |
|-----------|--|
| 5:30–7:30 | <b>Poster Session and Reception</b><br><b>Chemical Heritage Foundation (Second Floor Overlook)</b> |
|-----------|--|

## Thursday, October 23

7:30 Continental Breakfast (*Back of Ulliyot*)

8:00– Plenary Speaker (*Ulluyot*): Randolph V. Lewis, USTAR Professor of Biology, Utah State University

8:45 *Spider Silk: An Ancient Biomaterial for the Future*

### Morning Session

|      | Room: Ulliyot   | Room: Franklin 2   | Room: Franklin 1   |
|------|---|--|--|
|      | <b>Session: Military</b><br><b>Eugene Wilusz, Chair</b>   | <b>Session: Medical II</b><br><b>Minglin Ma, Chair</b>   | <b>Session: Advanced Fibers I</b><br><b>Caroline Schauer, Chair</b>  |
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|       |   |   |  |
|-------|---|---|--|
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| 11:50 | <b>Lunch Provided at Chemical Heritage Foundation (Ulliyot)</b>   |   |  |

### Afternoon Session

|       | Room: Ulliyot   | Room: Franklin  |
|-------|---|---|
|       | <b>Session: Sensors</b><br><b>Margaret Frey, Chair</b>  | <b>Session: Medical III</b><br><b>Minglin Ma, Chair</b>   |
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|      |  |  |
|------|--|--|
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|      |              |
|------|--------------|
| 2:15 | <b>Break</b> |
|------|--------------|

|               |  |
|---------------|--|
| 2:30;<br>3:30 | Buses Load for Trip to Drexel for Tour, FS Business Meeting, and Banquet   |
|               | Shima Seiki Haute Technology Laboratory Tour ( <a href="http://www.drexel.edu/excite/research/shimaseiki">www.drexel.edu/excite/research/shimaseiki</a> )<br>Tour Group I, 3:00–4:00<br>Tour Group II, 4:00–5:00 |
| 5:00          | <b>Fiber Society Annual Business Meeting: <i>Open to Fiber Society Members Only</i> (Drexel University, 31<sup>st</sup> and Market Streets, LeBow Engineering Center, Conference Room 240)</b>                   |

**6:00–8:45 Reception/Banquet (Sky View Lounge/University Club, MacAlister Hall, 6<sup>th</sup> Floor, Corner of 32<sup>nd</sup> and Chestnut Streets)**

- **Speaker: Dr. Kenneth Lacovara, *Dreadnoughtus schrani***
- **Awards Ceremony**

**8:45; 9:15 Buses Load for Return Trip to Chemical Heritage Foundation**

## Friday, October 24

7:30 Continental Breakfast (*Back of Ulliyot*)

|      | <b>Room: Ulliyot</b>  | <b>Room: Franklin</b>   |
|------|---|---|
|      | <b>Session: Spider Silk</b><br><b>Michael Ellison, Chair</b>  | <b>Session: Fiber Composites</b><br><b>Caroline Schauer, Chair</b>  |
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| 9:00 | <i>Silk-Zein Multifunctional Protein Composite Materials...116</i><br>Xiao Hu, Rowan University                   | <i>X-Radiography for Fibrous Web Structural Analysis...129</i><br>D. Steven Keller, Miami University  |
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|       |   |   |
|-------|---|---|
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| 10:20 | <b>Break</b>  |   |
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## Poster Session

**Wednesday, October 22, 5:30 p.m.–7:30 p.m., CHF (Second Floor Overlook)**

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