



In this edition of the newsletter we update you on plans for the Fall 2009 Conference in Athens, Georgia, recap the Spring 2009 Meeting in Shanghai, China, and list news and recent articles from the *Journal of Engineered Fibers and Fabrics*.

Please contact us with your thoughts or suggestions for future newsletter editions. We appreciate contributions of short news articles, announcements, or editorials of interest to our members.

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2009 Fall Meeting Update

**The Fiber Society
2009 Annual Meeting and Fall
Technical Conference
28-30 October 2009**

**University of Georgia,
Athens, Georgia, USA
Chair: Ian Hardin**



**Conference Venue:
Georgia Center for Continuing Education**



For interesting information about the University of Georgia and a campus map, go to www.uga.edu

There is still time to submit abstracts for the Fall 2009 Fiber Society Annual Meeting and Technical Conference.

Submissions of original work related to the following major themes, as well as any aspects on the frontier of fibers and fibrous materials are welcomed:

- Polymer science and nanotechnology
- Processing technology
- Dyeing, finishing, and biotechnology
- Medical textiles
- Textile testing
- Industrial textiles
- Fashion design, costume history, and aesthetics
- International aspects of retailing, marketing, and management.

Online submissions will be accepted through the Fiber Society website www.thefibersociety.org. A template is provided for all submissions. Abstracts will be no more than 2 pages in length in the prescribed format that includes: abstract title; author(s); and affiliation(s). Abstracts will be in MS Word, Times New Roman, 12-point font.

Submission deadline is August 31, 2009. Notification of acceptance into program is September 15, 2009.

In conjunction with the conference, Clemson University's Center for Advanced Engineering Fibers and Films will present its Advanced Fiber Process Development Workshop, October 26–27. The two-day course will provide background on the key elements in a fiber-spinning process and the state-of-the-art in modeling those elements. It will also offer information on polymer characterization, including on-line measurements to verify model predictions. A case study session will allow participants to gain hands-on experience with various models in an interactive setting.

Finally, table-top exhibitors will attend, demonstrating the latest in testing and analytical instruments, software, and materials and material conversion technologies.

For inquiries, contact Pam Gabriel at pam_gabriel@ncsu.edu; Ian Hardin at ihardin@fcs.uga.edu; or Susan Wilson at swilson@fcs.uga.edu.

TRANSPORTATION and ACCOMMODATIONS

Suggested Airport:
Hartsfield-Jackson Atlanta International Airport (HJIA)

Two options from HJIA to Athens:

By Air from Atlanta Airport

- *Georgia Skies Airline*
5 scheduled flights per day to/from Athens
Approximate cost including tax round trip: US\$83.00
<http://www.pacificwings.com/gsky/gs>
- Cab ride from Athens Airport to the Georgia Center Hotel conference site is approximately US\$10.00

By Ground Transportation from Atlanta Airport

- *AAA Airport Express*
Offers 9 scheduled times from HJIA, with direct drop-off and pickup at the conference hotel
Approximate travel time to the Georgia Center - Hotel is 2+ hours travel time; US\$45.00 one-way
aaaairportexpress.com/routes/athens.html

Conference Site and Accommodations

Georgia Center Hotel
1197 South Lumpkin Street
Athens, Georgia
(on the campus of the University of Georgia)
Queen or King room conference rate of US\$89.00 plus tax per night. Attendees are responsible for making their own hotel reservations (1-888-295-8894). A link to the special Fiber Society rate for this conference is: www.georgiacenter.uga.edu/conferences/2009/Oct/28/fiber.phtml

Presenters at the 2009 Fall Conference of The Fiber Society are invited to submit completed full-length papers for publication in the **Journal of Engineered Fibers and Fabrics (JEFF)**. *JEFF* is a refereed electronic online journal sponsored by The Fiber Society, INDA, TAPPI, and AATCC. *JEFF* also welcomes contributions from non-Fiber Society members and the scientific and engineering community at large: www.jeffjournal.org.

Final conference program information, registration instructions, and accommodation suggestions will be posted on the Fiber Society web site as the meeting details are finalized. We hope to see you in Athens, Georgia!

The Fiber Society 2009 Spring Meeting: Donghua University, Shanghai, China

The Fiber Society Spring 2009 Conference was held May 27-29, 2009, at the facilities of the College of Textiles at Donghua University (Songjian Campus) in Shanghai, China.

Conference papers encompassed fundamental research related to the science and engineering of fibers and fibrous materials.



The conference theme was Fibrous Materials: Science, Technology, and Applications:

This conference focused on the latest development of multidisciplinary subjects ranging from nanofibers, technical textiles, biomedical textiles, textile processing, textile composites, textile testing, apparel technology, textile marketing, textile management and some other textile related topics.

Approximately 400 lectures, papers, and posters were presented during the conference, with participants from more than 20 countries. Session topics included:

- Industrial Textiles
- Processing Technology
- Textile Testing
- Polymer Science and Nanotechnology
- Functional and Intelligent Textiles
- Retailing, Marketing, and Management
- Fashion Design, History, and Aesthetics
- Medical Textiles
- Dyeing, Finishing, and Biotechnology

The Fiber Society would like to thank the chair of this successful conference: **Dr. Yiping Qiu** of Donghua University, Shanghai, China.

The Spring 2009 Conference abstract book is available in PDF format on The Fiber Society website: www.thefibersociety.org.

JEFF Recent Articles

JOURNAL OF ENGINEERED FIBERS AND FABRICS

The *Journal of Engineered Fibers and Fabrics (JEFF)* has published the first two issues of its fourth volume (2009) of peer-reviewed scientific journal articles. *JEFF* is an international, peer-reviewed open-access scientific e-Journal that publishes original R&D on all aspects of fabric technologies and their value chain -- from raw materials to end use products.

JEFF is sponsored by The Fiber Society and three associations: the American Association of Textile Chemists & Colorists (AATCC); the Association of the Nonwoven Fabrics Industry (INDA); and the Technical Association of the Pulp and Paper Industry (TAPPI).

The mission of *JEFF* is to publish a highly recognized and peer-reviewed research journal that fosters scientific efforts across many disciplines, to enhance the performance of fibers, their converted forms, and their applications. The *JEFF* editorial board includes area editors in North America, Asia, and Europe.

Journal articles may be viewed and downloaded at no charge from the web site: www.jeffjournal.org.

Paper submissions are actively sought for future issues. Submission guidelines are available at the journal web site and through the online editorial manager.

Contact information for the Managing Editor of the Journal of Engineered Fibers and Fabrics:

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Journal of Engineered Fibers and Fabrics
Volume 4, Issue 1 – 2009

Special Issue on Modeling

Foreword

Guest Editors: Hooman Vahedi Tafreshi and Behnam Pourdeyhimi

Modeling Heat and Mass Transfer from Fabric-Covered Cylinders

P. Gibson,
U.S. Army Natick Soldier Research, Development, & Engineering Center, Natick, Massachusetts, USA

An Investigation of the Radiative Heat Transfer through Nonwoven Fibrous Materials

I. Qashou, Fiberweb Inc., Old Hickory, Tennessee, USA;
H. Tafreshi, Virginia Commonwealth University, Richmond, Virginia, USA;
B. Pourdeyhimi, Nonwovens Cooperative Research Center, North Carolina State University, Raleigh, North Carolina, USA

Collection Efficiency for Filters with Staggered Parallel Y and Triple Y Fibers: A Numerical Study

H. Zhu, J. Hinestroza,
College of Human Ecology, Cornell University, Ithaca, New York, USA

Tensile Behavior of Low Density Thermally Bonded Nonwoven Material

X. Hou, M. Acar, V. Silberschmidt,
Wolfson School of Mechanical and Manufacturing Engineering, Loughborough University, Leicestershire, UK

Simulation of Multifilament Semicrystalline Polymer Fiber Melt-Spinning

Y. Jeon, C. Cox,
Mathematical Sciences, Clemson University, Clemson, South Carolina, USA

Journal of Engineered Fibers and Fabrics
Volume 4, Issue 2 – 2009

Foreword

Managing Editor: Edward A. Vaughn

Peer-Reviewed Articles

Modelling of the Through-air Bonding Process

M. Hossain, School of Engineering, Robert Gordon University, Aberdeen, UK;
M. Acar, W. Malalasekera, Mechanical and Manufacturing Engineering, Loughborough University, Leicestershire, UK

The Importance of Collagen Fibers in Vertebrate Biology

F. Silver, UMDNJ-Robert Wood Johnson Medical School, Piscataway, New Jersey, USA

Electrospun Polydioxanone, Elastin, and Collage Vascular Scaffolds: Uniaxial Cyclic Distension

M. McClure, S. Sell, G. Bowlin,
Department of Biomedical Engineering, Virginia Commonwealth University, Richmond, Virginia, USA;
D. Simpson, Department of Anatomy and Neurobiology, Virginia Commonwealth University, Richmond, Virginia, USA

Relationship between Yarn Properties and Process Parameters in False-Twist Textured Yarn

K. Yildirim, Tubitak-Butal, Bursa, TURKEY;
S. Altun, Y. Ulcay, University of Uludag, Bursa, TURKEY

Intumescent Biobased-Polylactide Films to Flame Retard Nonwovens

C. Reti, M. Casetta, S. Duquesne, R. Delobel, S. Bourbigot
Laboratoire PERF/LSPES, Cedex, FRANCE;
J. Soulestin,
Department of Polymers and Composites Technology & Mechanical Engineering Ecole des Mines de Douai Cedex, FRANCE

Fiber Society Lecturer for 2009

Leading members of the fiber research community are nominated for Fiber Society Lectureships. The underlying purpose of these lectureships is to acquaint students, members of faculty, and industrial or government organizations with the scientific challenges and opportunities in the field of fiber science, engineering, and technology. Interested organizations may contact the lecturers directly to arrange a visit.

The Fiber Society lecturer for 2009 is:



Dr. Rene M. Rossi
Head of Laboratory for
Protection and Physiology
EMPA, Swiss Federal
Laboratories for Materials
Testing and Research
Lerchenfeldstrasse 5, 9014
St. Gallen, Switzerland
Email: rene.rossi@empa.ch

Dr. Rossi is an internationally-known expert in protective clothing, flammability and clothing physiology.

Memberships in national and international organizations

- Founder member and board member of the European Society for Protective Clothing,
- Member of the Fiber Society,
- Working groups in CEN and ISO in the fields of protective clothing and flammability
- Chairman of the Swiss mirror group for protective clothing

Lecture Topics:

- Micro Computed Tomography for Water Content in Porous Textiles
- Body Mapping for Temperature Control in Sport Clothing
- Manikin Testing for Flame Engulfment Evaluation of Protective Clothing
- Nanotechnology Applications for Functional Textiles
- Water Vapor Transport, Hot Steam Transfer, and Condensation Effects in Multilayer Textile Combinations and Heat Protective Clothing

Past Meetings of The Fiber Society

Note – many of the recent meetings include online abstracts and programs archived on The Fiber Society web site www.thefibersociety.org

2009 Spring Meeting (May 27-29, 2009),
Donghua University, Shanghai, China

2008 Fall Meeting (October 1-3, 2008)
Industrial Materials Institute, Boucherville,
Quebec, Canada

2008 Spring Meeting (May 14-16, 2008)
University of Haute-Alsace, Mulhouse, France

2007 Fall Conference (October 9-11, 2007)
Davis, California, USA

2007 Spring Meeting (May 23-25, 2007)
*Advanced Polymer Fiber Materials Science and
Its Applications in Novel Engineered Products*
Greenville, South Carolina, USA

2006 Fall Conference (October 10-12, 2006)
Knoxville, Tennessee, USA

2006 Spring Meeting (30 May - 2 June, 2006)
*Extreme Textiles: Functionality, Performance,
and Industrial Aspects*
Joint Conference with the Korean Fiber Society
in Seoul, Korea

2005 Fall Conference (October 17-19, 2005)
Fiber Science – The Next Generation
New Jersey Institute of Technology,
Newark, New Jersey, USA

2005 Spring Meeting (May 25-27, 2005)
Fiber-Based Product Design for Performance
ETH/EMPA, St. Gallen, Switzerland

2004 Fall Conference (October 11-13, 2004)
*A Symposium on Advanced Materials and
Processes*
Cornell University, Ithaca, New York, USA.

2004 Spring Meeting (May 17-20, 2004)
*International Symposium on Fibers, Fibrous
Structures, and Filtration*
Clayton, Missouri, USA

Fiber Society Contacts

For most correspondence please contact the Secretary of The Fiber Society:



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Fiber Society administrative questions such as membership status and dues may be addressed to Pam Gabriel: Pam_Gabriel@ncsu.edu, phone (919) 513-0143

Please also feel free to contact any of our officers or Governing Council members with suggestions or concerns:



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