



*Advancing Scientific Knowledge
Pertaining to Fibers and Fibrous Materials*

The Fiber Society Newsletter

December 2010

In this edition of the newsletter, we update you on plans for the Spring 2011 Conference in Hong Kong, recap the Fall 2010 Meeting in Utah, 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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2011 Spring Meeting Update

**The Fiber Society
Spring 2011 Conference**
hosted by
**Institute of Textiles and Clothing
Hong Kong Polytechnic University**
May 23–25, 2011



*Hong Kong Polytechnic University in Kowloon,
north of Hong Kong Island*

The Spring 2011 Fiber Society Conference is hosted by Hong Kong Polytechnic University's Institute of Textiles and Clothing. The conference takes place May 23-25, 2011.



*Hong Kong Polytechnic University is ranked
among the top 200 universities in the world,
and has nearly 30,000 students.*

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

Topics of interest include:

- Fiber and polymer science
- Textile and apparel testing
- Textile biotechnology
- Industrial textiles
- Textile nanotechnology
- Smart textiles
- Textile processing technology
- Fiber-reinforced composites
- Dyeing and finishing technology
- Clothing science
- Functional textiles and clothing
- Textile recycling, "green technologies," and sustainable manufacturing
- Technical textiles (medical, protection, transportation, etc.)
- Textile and apparel supply chain management
- Textile and apparel trade economics

Presenters at the Fiber Society's 2011 Spring Conference are invited to submit 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. Journal web site: www.jeffjournal.org.

Final conference program information, registration instructions, and accommodation suggestions will be posted on the Fiber Society site as the meeting details are finalized.

We hope to see everyone soon in beautiful Hong Kong in May!



Fiber Society Fall Conference Snowbird Resort, Utah October 20-22, 2010

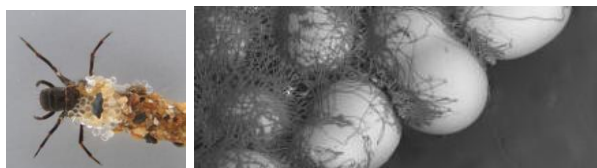


The Fiber Society held its Fall Conference on October 20-22, 2010, at the Snowbird Resort, in Little Cottonwood Canyon near Salt Lake City, Utah.

Conference papers encompassed fundamental research related to the science and engineering of fibers and fibrous materials. About 40 papers were presented in the beautiful mountain setting.

The Fiber Society President, Professor Dominique Adolphe of the University de Haute-Alsace, welcomed the assembly to the 2010 Fall Conference. Professor Adolphe opened the conference by thanking the Conference Chair Dr. Agnes Ostafin of the Departments of Materials Science and Engineering and Bioengineering at the University of Utah, for her efforts in organizing the conference, and for arranging such a spectacular meeting location Utah's Wasatch Range.

The conference's plenary talk was given by Professor Russell Stewart, Department of Bioengineering, University of Utah on "The Sticky Underwater Silk of Caddisflies," a topic of interest to many fiber and biomaterials scientists in attendance at the conference.



Caddisfly and silk filaments on glass beads. The ability of caddisflies to phosphorylate serine amino acids in silk proteins produces a bioadhesive that is sticky underwater -- potentially useful for wet-tissue wound sutures.

The guest speaker at the Fiber Society Awards Banquet was Dr. William Parry from the Department of Geology, University of Utah, on “Geological Evolution of Western North America from the Perspective of Snowbird, Utah.”



Dr. Parry giving his talk on Utah geology following The Fiber Society Awards Banquet.

The Student Paper Competition was a highlight of the conference. Three excellent finalists competed for the Best Research Paper Award.

The student paper completion was organized and run by the Student Paper Competition Committee: Chair Konstantin Kornev, Clemson University; Seshadri Ramkumar, Texas Tech University; Margaret Frey, Cornell University; and Laurence Schacher, ENSISA.

The three student finalists for this year's competition were:

Erin Hendrick, Cornell University:
pH-Indicating Electrospun Fibers

Xuri Yan, Boston University:
Characterization of Jet Dynamics and Humidity Effect on Electrospun Fiber Diameter

Jian Kang, Kyoto Institute of Technology,
Preparation of Polycaprolactone/Soluble-Eggshell Membrane Nanofiber Webs with Catechin
2010 Winner: Best Research Paper



*Left to Right:
Finalist Erin Hendrick, Cornell University;
Finalist Xuri Yan, Boston University;
Jian Kang, Kyoto Institute of Technology,
Best Research Paper*

New officers elected at the annual Fiber Society Business Meeting were Professor Ian Hardin, University of Georgia, elected as President, and Cheryl Gomes, Qineqiq North America, elected as Vice President. New Governing Council members elected are Glen Simmonds, DuPont, and Xungai Wang, Deakin University, Australia.

Dr. Stephen Michielsen, North Carolina State University, will step down as Fiber Society Treasurer at the end of December 2010 after many years of service. The Fiber Society is very grateful to Steve for his efforts as Treasurer; he volunteered a lot of his time to create and modernize both the Society's web site and also the financial records. Please say Thank You to Professor Michielsen the next time you see him!

Special thanks go to **Professor Agnes Ostafin**, Department of Materials Science and Engineering, who served as the chair of the 2010 Fall Conference.

The Fall 2010 Conference Book of Abstracts is available in PDF format on The Fiber Society website: www.thefibersociety.org .

Presentation Titles: Fall 2010 Conference

- Self-Detoxifying Nanoparticle-Enhanced Fabrics
- Study the Effects of Fabric Structure on Power Conversion Efficiency of Photovoltaic Fabrics
- Application of Microwave Radiation to Enhance Accessibility and Activity of Enzyme Treatments of Cotton Seed Coat Fragments
- Measuring of Electrical Properties of Nanoweb of PAN Containing MWNT
- Anomalous Chain Fragmentation of Various Polymers in the Solution State by Ultrasonic Method: Clarification of the Mechanism by Using Monodispersed Poly(styrene)
- Sheet Resistance of Continuous Filament Nonwovens
- Structure and Properties of Highly Oriented Poly(glycolide-co-lactide) Filaments and Their Changes During Hydrolytic Degradation
- Heat Transfer Through Fibrous Insulation with Superfine Reflective Fibrous Interlayers
- Characterization of a Reactive β -Cyclodextrin Containing Vinyl Group
- Stand-Alone Nanofiber Webs as Energy Storage Separators
- A Novel Approach for Efficient Utilization of Cotton into Nonwovens
- pH-Indicating Electrospun Fibers
- Preparation of Polycaprolatone/Soluble-Eggshell Membrane Nanofiber Webs with Catechin
- Characterization of Jet Dynamics and Humidity Effect on Electrospun Fiber Diameter
- Experimental Study of Transverse Compression of Polyamide 6.6 Rovings
- Textile Heart Valve Prosthesis: Novel Manufacturing Process and Prototype Performances
- Stressing Semisaturated Fibrous Materials During Wicking Experiments
- Challenges in Advanced Nanofiber Wound Dressings
- Multiscale Experiments and Simulations on Natural Fiber and Natural Fiber-Reinforced Plastic Composites
- Stereolithographic Techniques to Create Complex 3D Biomimetic Tissue Engineering Scaffolds
- Mechanical Properties of PA-6 Electrospun Nanoweb
- Polyacrylates with Imidazole Sidechains Mimicking Bioadhesive of Sandcastle Worm
- Finite Element Simulation of Transverse Compression of Textile Tows
- Structure and Properties of Melt Blown PLA Micro- and Nanofiber Nonwovens
- Control of Electrospun Fiber Diameter: Process Variations, Jet Dynamics, and Humidity Effects
- Analysis of the Microstructure of Bicomponent Fibers by Wide-Angle X-Ray Diffraction (WAXD)
- High-Performance Nylon-6 Nonwoven Fabrics by Electrospinning
- Using Variable Homography Mathematical Model to Measure Hairiness for the Application on Textile Surface Monitoring
- Wool Fiber Surface High-Resolution Force Spectroscopy
- Nonlinear Traces During Friction on Fibrous Materials: Towards New Estimators of Surface Quality
- Nanoreactors—A New Kind of Fade-Resistant Nanoparticle with Applications in Textiles
- Study of the Effect of Test Speed and Fabric Weight on Puncture Behavior of Polyester Needle-Punched Nonwoven Geotextiles
- The Preparation of Soluble Egg Shell Membrane (SESM) Nanoparticles by Method of Precipitation with Catechin and Its Application in Polyurethane (PU) Nanofibers
- Color Coordinates and Differences of Naturally Colored Cotton and Their Correlation to Visual Affection
- Oil Absorbing and Vapor Retaining Fibrous Mats
- Quality Control for Technical Textiles
- Designing Waterproof Breathable Materials Based on Electrospun Nanofibers and Assessing the Performance Characteristics
- Fast Collection of Liquids by Fibrous Probes and Capillaries
- Sustainable Practice: Dyeing Natural Fibers with Natural Dye
- Technologies for Printing on Textiles—State of the Art
- The pH Sensitive Nanoreactor-Coated Glass Fibers

JEFF Recent Articles



The *Journal of Engineered Fibers and Fabrics (JEFF)* is nearing completion of its fifth year of publishing 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 5, Issue 1 – 2010

Tensile Behaviour of Spun Yarns under Static State

B. R. Das
Department of Textile Technology
Indian Institute of Technology
New Delhi, INDIA

X-ray Diffraction of Cotton Treated with Neutralized Vegetable Oil-based Macromolecular Crosslinkers

E. Johnson Ford, S. Mendon, S. Thames, J. Rawlins
The University of Southern Mississippi
Hattiesburg, MS, USA

Cellulose Acetate Fibers with Fluorescing Nanoparticles for Anti-counterfeiting and pH-sensing Applications

E. Hendrick, M. Frey, E. Herz, U. Wiesner
Cornell University,
Ithaca, NY, USA

Effect of Workwear Fabric Characteristics on the Changes in Tensile Properties of Sewing Threads after Sewing

V. K. Midha, A. Mukhopadhyay
National Institute of Technology
Jalandhar, Punjab, INDIA
V. K. Kothari, R. Chattopadhyay
Indian Institute of Technology
Delhi, INDIA

Lab-Scale Fiber Spinning Experimental Design Cost Comparison

J. Moreland, J. Sharp, P. J. Brown
Clemson University,
Clemson, SC, USA

Physical Characteristics of Titania Nanofibers Synthesized by Sol-Gel and Electrospinning Techniques

S. Park, Y. Kang, J. Park, E. Evans, R. Ramsier G. G. Chase
University of Akron,
Akron, OH, USA

Journal of Engineered Fibers and Fabrics
Volume 5, Issue 2 – 2010

Characterization of Absorbent Flow Rate in Towel and Tissue

P. Beuther, M. Veith, K. Zwick
Kimberly-Clark Corporation
Neenah, WI, USA

Effect of Sett and Construction on Uniaxial Tensile Properties of Woven Fabrics

P. Banerjee, S. Mishra, T. Ramkumar
Indian Institute of Technology
New Delhi, INDIA

An Infra-Red Heating Based Fast Method of Moisture Content Measurement and Its Application to Measure Blend Proportion of Polyester-Viscose Woven Fabrics

V.K. Kothari, K. Bal
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New Delhi, INDIA

Aqueous Processes for Dyeing Generic, Unmodified Polypropylene Fiber

M. Gupta, F. Cook
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Fiber Engineering
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Atlanta, GA, USA
J. Etters, X. Wu, H. Liu
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Merchandising and Interiors
The University of Georgia
Athens, GA, USA

Development of Textile Laminates for Improved Cut Resistance

G. Thilagavathi, K. Rajendrakumar
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PSG College of Technology
Tamilnadu, INDIA
T. Kannaian
Department of Electronics,
PSG College of Arts and Science
Tamilnadu, INDIA

Journal of Engineered Fibers and Fabrics
Volume 5, Issue 3 – 2010

Effect of Nanosized Colloidal Copper on Cotton Fabric

D.P. Chattopadhyay, B.H. Patel
Department of Textile Chemistry
The MS University of Baroda
Vadodara, INDIA

New Approach for Determining Tortuosity in Fibrous Porous Media

R. Vallabh, P. Banks-Lee, A. F. Seyam
College of Textiles
North Carolina State University
Raleigh, NC, USA

Preparation of Chitosan Biguanidine Hydrochloride and Application in Antimicrobial Finish of Wool Fabric

X. Zhao, Z. Qiao, J. He
Donghua University
Sung Yiang, CHINA

Electrical Resistivity Studies on Polyaniline Coated Polyester Fabrics

R. Neelakandan, M. Madhusootheran
Department of Textile Technology
Anna University
Chennai, INDIA

How Is Frayed Fiber Generated during Refining Process? (Identification of Frayed Fiber under High Resolution Microscope)

Y. Chen, M. Nazhad
Asian Institute of Technology
Pathumthani, THAILAND

Computational and Experimental Investigation of Moisture Transport of Spacer Fabrics

S. Borhani, S. Seirafianpour, S. Ravandi, M. Sheikhzadeh, R. Mokhtari
Isfahan University of Technology
Isfahan, IRAN

Effect of Externally Applied Liquid Pressure on Wicking in Paper Wipes

R. Masoodi, K. Pillai
Laboratory for Flow and Transport Studies
in Porous Media
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Milwaukee, WI, USA
P. Varanasi
Waukesha Electric Systems
Waukesha, WI, USA

Upcoming Meetings

Fiber Society conferences are run on a volunteer basis by organizations and individuals. We are always seeking interested companies, other organizations, and individuals, for sponsorship, arranging special interest topic sessions, meeting chairs, and joint meetings with other professional societies. Please contact The Fiber Society Secretary if you are interested in helping out with future meetings.

2011 Spring
May 23-25,
Hong Kong
Polytechnic University



2011 Fall Conference
October 11-13, 2011
Fiber Society / AATCC / NTC
International Symposium on New Frontiers in Fiber Science
Location: Charleston, SC



2012 Spring Conference
May 23-25, 2012
EMPA
St. Gallen, Switzerland



2012 Fall Conference
Tentative: Boston area



Information and Calls for Papers are available on our web site (www.thefibersociety.org) as plans for each meeting are finalized.

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

2010 Fall, October 20-22
Snowbird Resort, Utah
Hosted by University of Utah

2010 Spring Meeting (May 12-14)
International Conference on Fibrous Materials
Bursa, Turkey

2009 Fall Meeting (October 28-30)
University of Georgia
Athens, Georgia, USA

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 Applications in Novel Engineered Products
Greenville, South Carolina, USA

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

2006 Spring Meeting (May 30 - June 2, 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

Fiber Society Contacts

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



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



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Note: Professor Michielsen's term
as Treasurer ends December 2010



Past-President (2009),
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Fiber Society Dues Reminder

Have you paid your Fiber Society dues for 2010
and or 2011? Dues for 2010/2011 remain at
\$60.00.

You can check the status of your membership
by logging onto the account information section
of The Fiber Society website:

<https://www.thefibersociety.org/personalinfo.php>

Call for Papers
The Fiber Society Spring Conference
May 23–25, 2011
The Hong Kong Polytechnic University



The Fiber Society invites submissions of original research papers for oral and poster presentations at its 2011 Spring Conference, hosted by The Hong Kong Polytechnic University's Institute of Textiles and Clothing. Papers on fundamental research related to the science and engineering of fibers and fibrous materials are being solicited.

Submissions of original work related but not limited to the following themes, are welcomed:

- Fiber and polymer science
- Textile and apparel testing
- Textile biotechnology
- Industrial textiles
- Textile nanotechnology
- Smart textiles
- Textile processing technology
- Fiber-reinforced composites
- Dyeing and finishing technology
- Clothing science
- Functional textiles and clothing
- Textile recycling, “green technologies,” and sustainable manufacturing
- Technical textiles (medical, protection, transportation, etc.)
- Textile and apparel supply chain management
- Textile and apparel trade economics

Online submissions will be accepted beginning **November 1, 2010 at the conference link on www.thefibersociety.org.**

**Guidelines for ALL submissions are provided online.
Strict adherence to format is expected.**

Submission deadline is **March 14, 2011. Notification of acceptance into the program will be no later than **April 4, 2011**.**

Early-bird discount will be offered to delegates who register on or before April 8, 2011. *For those who must acquire travel visas, early submission is highly recommended.*

Details continue to be developed. For current information and updates, access the Society's website at www.thefibersociety.org.

For inquiries, contact Ms. Pam Gabriel at psgabrie@ncsu.edu or conference secretary: Ms. Anne Hon at tcanne@inet.polyu.edu.hk.

Guidelines for Spring Conference Abstract

Author One¹, Author two¹, Author three², ...
¹Affiliation one, ²Affiliation two, ...
Speaker@somplace.ext

Instructions:

- List all authors, underline speaker's name, and identify affiliations with superscripts
- List email addresses for contact author and/or speaker

ABSTRACT REQUIREMENTS

Use this template. (Some small allowances are permitted with regard to font size, page size, etc., in order to stay within the requested 2 pages; however, abstract must be readable.) This document provides information and instructions for preparing your abstract. Follow the specifications in this document to determine the layout of your two pages. If you follow the instructions included here, the typeface, style and basic layout of your paper should look like this document.

The easiest way to remain compliant is to simply replace this text with your own, maintaining the destination format.

Save your abstract as a Word document in *final* markup (*not* in editing markup version) at 100% (*not* 75% or 110% or 150%, etc.). Please submit your abstract in English. The abstract should be no longer than two pages and should fully describe the contents of your planned oral presentation/poster. See *Table I* for important issues.

TABLE I. Things to **NOT** do

Do <i>not</i> submit a pdf file (we need Word files to assemble the book of abstracts).
Do <i>not</i> number the pages (we need to assign page numbers for the book of abstracts).
Do <i>not</i> use footers and headers.
Do <i>not</i> use horizontal lines to separate title and author information from the body text.
Do <i>not</i> use vertical lines between the columns.

SUGGESTED CONTENT

- STATEMENT OF PURPOSE/OBJECTIVE
- INTRODUCTION
- APPROACH
- RESULTS AND DISCUSSION
- CONCLUSIONS
- FUTURE WORK
- REFERENCES

FORMAT

Papers should be in TWO-COLUMN format on 8 ¼ by 11 in. paper, using portrait orientation. (This size is a compromise between A4 and US paper sizes.) Paragraphs should be block style (no indents) and single-spaced, using *justified* paragraph alignment. Do NOT start new

sections on a new page if space is available on the previous page.

All figures and tables must be contained within the two page limit of this abstract.

SPACING, MARGINS, AND NUMBERING

Use single space between paragraphs, and before headings. Leave 1" margins on all four sides of the paper. Column width should be 3" with 0.5" between columns. Do not number your abstract pages; an appropriate page number will be added when the abstracts are compiled into the *Conference Proceedings*.

FONT

The preferred font for the main text is Times New Roman, 10 point size. See *Table II* for complete instructions for fonts and styles.

TITLES, HEADINGS, AND SUBHEADINGS

The title of your presentation/poster should be centered on page 1 of the abstract (1" from the top of the page). Please type in 18 point font size in Times New Roman.

Headings should be typed in bold capital letters and aligned flush with the left-hand margin of the column.

Subheadings should be typed in bold title case and aligned flush with the left-hand margin of the column.

TABLE II. Font specifications

Points	Place of text	Type styles
8	Table Number	ROMAN NUMERALS
8	Table Text	
8	Figure and Table Headings	UPPERCASE
8	ALL Captions	
8	Footnotes	
8	Reference List	
10	Headings	SMALL CAPS, BOLD
10	Main Text & Equations	
18	Title	Title Case

EQUATIONS

Number all equations consecutively from Eq. (1) to the end of the paper. As shown in Eq. (1), enclose equation numbers in parentheses and place them flush right on the column. Leave one line of space above and below displayed equations. When referring to an equation in the text, type “Eq. (1).” Symbols and abbreviations in your equations should be defined before the equation appears or immediately following. Make sure you use the “Symbol Font” for all your symbols or embed your equation within the text, using an equation editor. Use size 10 font.

$$2_{jk} \frac{\partial u}{\partial x} = e^{-u} \quad (1)$$

FIGURES, GRAPHS, TABLES, PHOTOGRAPHS & ILLUSTRATIONS

All figures, graphs, tables, photographs, equations, and illustrations should generally fit in one column. However, if they cannot be reduced to one column, place them across two columns at the top or bottom of the page. NOTE: Figures, tables, etc. should fit on one page within 1” margins. Insert them into the body of your paper in order of reference. All captions (except tables) must be placed right below the figure being described using 8 point font. Multicolored figures, graphs, tables, photographs, and illustrations are acceptable and encouraged. See *Figure 1* for example and details.



FIGURE 1. Type captions for figures directly *below* the space allowed for the materials, leaving two blank lines between the figure and the first line of the caption. Please type captions for figures and tables in 8-point font size.

Type table captions *above* the table, leaving one blank line between the last caption line and first line of the table. Use Roman numerals (I, II, III, ...) for numbering of tables. Use Arabic numbers (1, 2, ...) for numbering of figures.

References to figures and tables made in the body of your abstract should be *italicized*. If you have figures, graphs, tables, or photographs that you choose to put at the end of your abstract, please add them in the order you would like them to appear.

ACKNOWLEDGMENT

Acknowledgments should read similar to, “This research was funded in part through a grant by XYZ and the Department of ABC. The authors wish to thank Dr. AAA and Dr. ZZZ of X University for their help and efforts completing this research.”

PROOFREADING

Please proofread carefully. THE FIBER SOCIETY will not be responsible for typographical errors or omissions. Also please examine the appearance to ensure a pleasing abstract that complements your professional status.

BIBLIOGRAPHIC REFERENCES

Reference to other articles and/or books/patents should be listed in your bibliography at the end of the document. Complete bibliographic information must be listed for all cited references. Number the references sequentially by order of appearance, not alphabetically. Use box numbers with square brackets [] within text. For multiple authors, up to three, list each author’s name. If more than three authors, list the name of the first followed by “et al.”

REFERENCES

- [1] Author’s last name, First initial, Middle initial, “title of paper,” journal or book (*italics*), Vol., No. #., date, pp.
- [2] Author’s Last name, First initial, Middle initial, “title of paper,” journal or book (*italics*), Vol., No. #., date, pp.
- [3] Note: This abstract form is adapted from the *Journal of Engineering Fibers and Fabrics*, a joint publication of the Fiber Society, TAPPI, AATCC, and INDA.



THE FIBER SOCIETY



International Symposium on New Frontiers in Fiber Materials Science

Sponsored by The Fiber Society, AATCC, and the National Textile Center

October 11–13, 2011

Charleston, South Carolina, USA

Call for Papers

The Fiber Society, AATCC, and the National Textile Center are collaborating to offer a symposium on *New Frontiers in Fiber Materials Science*, scheduled for October 11–13, 2011, at the Francis Marion Hotel in Charleston, South Carolina, USA. Dr. Julian Vincent, University of Bath, UK, will be a featured speaker.

Papers on fundamental research related to the science and engineering of fibers and fibrous materials will be presented during the 2-1/2 day event. Abstracts for oral presentation are solicited for submission to *one* of the following 16 mini-symposia chaired by :

- | | |
|---|---|
| • Fiber Spinning | <i>Dr. Philip Brown, Clemson University, USA</i> |
| • Control of Fiber Structures | <i>Dr. Takeshi Kikutani, Tokyo Institute of Technology, Japan</i> |
| • Optical Fibers | <i>Dr. John Ballato, Clemson University, USA</i> |
| • Multifunctional Fibers | <i>Dr. Rudolf Hufenus, Empa, Switzerland</i> |
| • Polymer Synthesis and Recycling | <i>Dr. Fred Cook, Georgia Tech, USA</i> |
| • Fibers from Carbon Nanotubes and Applications | <i>Dr. Philippe Poulin, CNRS, France</i> |
| • Biomimetics for Fiber Science | <i>Dr. You-Lo Hsieh, University of California at Davis, USA</i> |
| • Functionalization of Fiber Surfaces | <i>Dr. Igor Luzinov, Clemson University, USA</i> |
| • Electrospun Nanofibers for Composites | <i>Dr. Yuris Dzenis, University of Nebraska at Lincoln, USA</i> |
| • Carbon Fibers and Composites | <i>Dr. Amod Ogale, Clemson University, USA</i> |
| • Fiber-based Probes and Sensors | <i>Dr. Margaret Frey, Cornell University, USA</i> |
| • Protective Clothing and Wetting of Textiles | <i>Dr. Jeffery Owens, AFRL, USA</i> |
| • Advanced Textile Materials | <i>Dr. Martin Jacobs, National Textiles Center, USA</i> |
| • Fibers for Beauty | <i>Dr. Peter Kaplan, TRI/Princeton, USA</i> |
| • Fiber Science Theory and Computer Simulations | <i>Dr. Alejandro Rey, McGill University, Canada</i> |
| • Advances in Fiber-based Materials | <i>Dr. Jack Gillespie, University of Delaware, USA</i> |

The conference website contains additional information about the symposium, abstract submission, deadlines, hotel accommodations, travel, and more.

Online submissions will be accepted beginning December 1, 2010.

Access the website at www.fibers2011.org and follow the link for submission.

Formatting guidelines for all oral and poster submissions are provided online.

Submission deadline is April 4, 2011.

Presenters wishing to publish their full-length papers are invited to consider the *Journal of Engineered Fibers and Fabrics (JEFF)* and *AATCC Review* as possible opportunities. A special issue of *JEFF* containing selected papers presented at this symposium is planned. Contact information for each journal is available on the symposium website.

For inquiries regarding the *abstract submission process*, contact Pam Gabriel, the Fiber Society, at psgabrie@ncsu.edu. For inquiries regarding *abstract content and specific mini-symposium focus*, contact Dr. Konstantin Kornev at kkornev@clemson.edu.