



## 2<sup>nd</sup> Announcement

# CARBON FIBERS AND THEIR COMPOSITES

Symposium/Workshop organized by the American Carbon Society  
April 16-17, 2015, Oak Ridge, TN

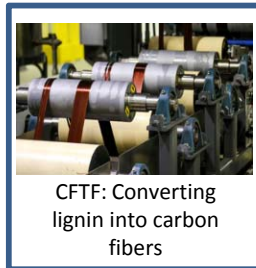


**Purpose:** The symposium and workshop will promote the science and technology of **CARBON FIBERS AND THEIR COMPOSITES** to a multidisciplinary audience of students (undergraduate and graduate), post docs, and early career engineers and scientists.

- Format:**
- Plenary-type lectures given by leading experts in manufacturing, characterization and applications of carbon fibers & composites;
  - Research presentations (15 + 5 minutes each)
  - Poster session and reception

### Tours of two Oak Ridge National Laboratory's user facilities

**Carbon Fiber Technology Facility (CFTF)** offers a highly flexible, highly instrumented carbon fiber line for demonstrating advanced technology scalability and producing market-development volumes of prototypical carbon fibers – the last step before commercial production scale. <http://web.ornl.gov/sci/manufacturing/cftf/>



CFTF: Converting lignin into carbon fibers



MDF: 3D-printed Shelby Cobra car

**Manufacturing Demonstration Facility (MDF)** helps industry adopt new manufacturing technologies to reduce life-cycle energy and greenhouse gas emissions, lower production costs and create opportunities for high-paying jobs. <http://web.ornl.gov/sci/manufacturing/mdf/>

These facilities are linked to the new **Institute for Advanced Composites Manufacturing Innovation (IACMI)** led by University of Tennessee (Knoxville). Oak Ridge National Laboratory is a founding partner, along with other private and public organizations. Composite materials manufacturing a main focus area of IACMI, regionally supported by the States of Tennessee and Kentucky.

**Registration fee \$150** (checks or cash on site; no credit cards) covers attendance, tours, handouts, refreshments, reception, and meals.

### Invited Speakers:

**Dr. Matthew Weisenberger**, Associate Director, University of Kentucky Center for Applied Energy Research, Lexington, KY

**Dr. Wesley Hoffman**, Principal Scientist, Air Force Research Laboratory, Edwards, CA

**Dr. Amit Naskar**, Group Leader, Oak Ridge National Laboratory, Oak Ridge, TN

**Dr. Jeffery W. Bauer**, Air Force Research Laboratory, Edwards, CA

**Dr. Renee Bagwell**, Sr. Process Technology Engineer, Harper International, Buffalo, NY

**Dr. Billy Stry**, Sr. Process Technology Engineer, Harper International, Buffalo, NY

### Key-Note Topics:

- Overview of the Carbon Fiber Technology Facility (CFTF) and Manufacturing Demonstration Facility (MDF) at Oak Ridge National Laboratory
- Carbon Fiber Overview with an Emphasis on Spinning PAN Precursor (White Fiber)
- Designing Carbon Fibers Research Systems for Scale-Up
- Advanced and Multifunctional Composite Structures – Challenges and Opportunities

### Upcoming deadlines:

**Abstract submission – before March 5, 2015:** Submit a 150-word abstract, indicate author's name and affiliation (underline the presenter's name) and specify your preference for oral or poster presentation. Send abstract to either **Khalid Lafdi** ([klafdi1@dayton.edu](mailto:klafdi1@dayton.edu)) or **Weiming Lu** ([Weiming.Lu@utas.utc.com](mailto:Weiming.Lu@utas.utc.com))

**Hotel reservation – before March 25, 2015:** Double rooms are secured at DOUBLETREE by HILTON in Oak Ridge at the low rate of \$84+tax (no fee for extra person). Call (865) 481-2468 and give the group code **CFC** or book online at [http://doubletree.hilton.com/en/dt/groups/personalized/O/ORKDTRD-CFC-20150414/index.jhtml?WT.mc\\_id=POG](http://doubletree.hilton.com/en/dt/groups/personalized/O/ORKDTRD-CFC-20150414/index.jhtml?WT.mc_id=POG) and use the group name: **Carbon Fibers and Composites Workshop**. Reservations **must** be received by **March 25, 2015**. After this date, reservations accepted on space and rate availability basis only.

**Participants Registration – before March 25, 2015:** Please send name(s) and affiliation to **Cristian Contescu** ([contescuci@ornl.gov](mailto:contescuci@ornl.gov)) or **Nidia Gallego** ([gallegonc@ornl.gov](mailto:gallegonc@ornl.gov)).

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