



2011 TAPPI International Conference on Nanotechnology for Renewable Materials

June 6-8, 2011

Sheraton Crystal City • Washington D.C. (Arlington, VA)



Conference Theme

Formerly known as TAPPI's International Conference on Nanotechnology for the Forest Products Industry, the title of this annual conference has been changed to reflect advances in nanotechnology in renewable materials and their widespread applications in many other industries. To fully embrace all nano-enabled biomaterials, the conference technical focus has been expanded to include other nanomaterials along with cellulose.

CALL FOR PRESENTATIONS/POSTERS DEADLINE EXTENDED to 1-28-11!

The 2011 Technical Program Committee invites contributions from participants working in research, development and deployment of renewable nanomaterials. Abstracts that focus on new and novel uses are highly encouraged. Analysis of challenges and trends in emerging markets for renewable nanomaterials are sought to provide a foundation for new research and industrial activities. The organizers also encourage submissions on other aspects of nanotech products including law, policy, economics and environmental health and safety.

Nanocellulosics and Nanocomposites

- Nanocellulosics and nanostructured materials
- Separation processes for nanocellulosics
- Nano-reinforced films, fibers, and foams
- Bio-derived matrix polymers for sustainable nanocomposites
- Processing of nanocomposites
- Characterization techniques
- Computer and Hierarchical modeling

Applications of Renewable Nanomaterials in

- Biomedical
- Printing inks
- Smart materials
- Sensing technologies
- Molded composite structures
- Biofuels, Paper, Paperboard and Wood products
- Electronics
- Structural application
- Transportation

Nanostructured materials by self assembly

- Nano manufacture & self-assembly

- Photonic bandgap pigments for special optical effects in forest products
- Nanoporous materials for controlled delivery of actives, immobilization of sensor liquids
- Biomimetics

Nanotech coatings and novel nano-enabled functionalities

- Surface modification and functionalization
- Wear and scratch resistant coatings
- Novel optical effects
- High modulus paper coatings
- Novel Piezoelectric effects

Governmental & Environmental Issues

- Consumer perception
- Policy issues
- Environmental impacts
- Health & Safety issues
- Ethical, legal and social implications
- Sustainability analysis
- Defense applications

MEETING PROGRAM CHAIRS:

Sean Ireland, Verso Paper Corp., World Nieh, USDA Forest Service, Theodore Wegner, USDA Forest Service

ABSTRACT SUBMITTAL

Submit title and 300 word or less abstracts via TAPPI's Speaker Management System: [click here](#) to sign in.

Due by **January 28, 2011**. Extended abstracts or papers due **March 7, 2011** –

Requirements for extended abstracts: 2 pages, single spaced, in a Word format. Papers need to be single spaced, also in a Word format.

See www.tappinano.org for more information. ***Reduced conference rate available for speakers.***