



## ***Invitation to Present***

### **PaperCon 2014: In Tune for Stability Agility & Profitability**

#### **Paper and Board Program**

This is a call for papers to be presented at TAPPI PaperCon 2014 being held April 27th – 30th 2014 in Nashville, TN, USA. The tracks for the 2014 program include **Paper Machine Upgrades; Product Development; Stability, Agility & Fluid Fundamentals; and Recycled Paperboard**. The deadline for submission of titles and abstracts for technical papers, panel sessions and roundtables is **November 10 2013**. Poster submissions will also be accepted with an abstract deadline of February 17. Any paper company personnel, suppliers, students and academics are strongly encouraged to submit abstracts, as TAPPI is interested in providing a diverse forum for new concepts and speakers.

The topic areas in detail::

#### ***Paper Machine Upgrades***

This track will focus on cost-effective upgrades of paper machine components to improve productivity, quality, and/or cost. Potential areas include:

- Success stories – case studies of successful project implementation in the paper machine area.
- Trends in paper machine rebuilds
- Chemical injection systems
- Whitewater systems
- Refining
- Dilution headboxes – new headboxes and headbox conversions
- Former rebuilds
- Vacuum system rebuilds – blowers and liquid ring pumps
- Steamboxes
- Press section rebuilds
- Dryer steam and condensate upgrades
- QCS (Quality Control Systems) upgrades
- Heat recovery opportunities
- Winder rebuilds

#### ***Product Development***

This track will focus on grade development seeking to make current paper and board products more cost-effectively in order to maintain relevance in today's market. Additionally, topics which explore novel applications and/or products for paper and paperboard that improve sustainability, recyclability and end user requirements are encouraged. Suggested topics are listed; however, other relevant submissions will be considered:

a) Paper Grade Development:

- Methods/opportunities for increasing bulk and reducing basis weight in current paper and paperboard grades
- New uses for paper and paperboard
- Replacing plastic with cellulose-based products
- Critical paper-quality requirements for high speed ink jet presses
- End-user updates/requirements/success stories
- Smart paper – exploring the potential for paper in electronic applications (e.g. RFID, QAR, printed electronics)

b) Novel additives for paper and paperboard production

- Use of nano- or microfibrillated cellulose in paper and paperboard production
- Improved retention or use of retention systems
- Improved barrier properties (heat, moisture, oxygen)
- Opportunities to improve paper quality at the size press

c) Improved Methods

- Advances in measurement of paper properties
- Improved mixing for more cost-effective production
- Creating a more positive market perception for paper and paperboard producers

***Stability, Agility & Fluid Fundamentals***

This track will focus on fluid mechanics and process control topics in papermaking. The following are planned topic areas:

- CFD applications in papermaking, with focus on mixing technology
- Spray applications, potentially including spray sizing, rewet showers, steam boxes, water box alternatives
- Fundamentals in forming including fiber mat development and drainage
- Fluid mechanics associated with machine clothing
- Improving Paper Machine Profitability with Agile Controls
- Flexible Applications of Sheet Quality Measurements
- Improving Sustainability with QCS Life Cycle Management
- Innovations in web imaging systems

***Recycled Paperboard*** (organized by RPTA- Recycled Paperboard Technical Association)

The Recycled Paperboard Technical Association's seminar sessions will focus on topics relevant to manufacturers of recycled board grades such as multiply paperboard, linerboard, tube and core, and gypsum. The sessions and topics of interest are listed; however, other relevant submissions will be considered:

a) Recovered fiber quality and supply

- China's Green Fence and the effect on contamination and recovered fiber grades
- Future supply and demand of recovered grades

b) Developments in recycled paperboard food packaging

c) Advancements in energy conservation in paper mills

d) Paper machine forming advancements with a focus on multiply paperboard

Authors interested in presenting a paper on these or related topics should submit their abstract electronically to [TAPPI's Speaker Management System](#) no later than **November 10th, 2013**. Accepted abstract authors will be invited to submit a full paper draft by **January 22, 2014**. The Technical Program Committee will provide feedback to the authors with a final paper due by **February 11, 2014**. Accepted papers will be presented at **PaperCon 2013 on April 28-30, 2014** in Nashville, TN.

If you need further information, or clarification, please contact Amanda Thomas at TAPPI [athomas@tappi.org](mailto:athomas@tappi.org) or 770-209-7220. For specific questions concerning TAPPI's Speaker Management System contact Ashley Westbrook at TAPPI [awestbrook@tappi.org](mailto:awestbrook@tappi.org) or 770-209-7284. More information about speaking at PaperCon, including an author kit, is available here -> [Speaker Info](#).