Solutions for a Changing World

May 31 - June 3, 2009
Renaissance St. Louis
and America’s Center
St. Louis, Missouri, USA

PIMA Management
PIMA Manufacturing Reliability
PIMA Innovation
TAPPI Coating & Graphic Arts
TAPPI Engineering
TAPPI Paper and Board
TAPPI Process and Product Quality
TAPPI Process Control

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www.papercon.org
What is PaperCon?

PaperCon is the pulp and paper industry’s most comprehensive event of 2009. Held in the world’s largest paper producing continent, PaperCon addresses the most critical issues facing the industry through expert speakers, peer-reviewed papers, panel discussions and roundtables. This year’s program is designed to help mills stay competitive and sustainable, with minimal investments, and improved methods.

Who will attend?

PaperCon attracts the world’s foremost pulp and paper experts including:

- Corporate Production CEOs
- Corporate Engineering Consultants
- Corporate Purchasing Consulting Engineers
- Paper Machine Mill Managers
- Superintendents Production Managers
- Coating Superintendents Process Engineers
- Research Managers Project Managers
- Maintenance and Reliability Corporate R&D
- Equipment, Chemical and Academics
- Service Suppliers Students

What Will I Learn?

PaperCon provides global insight on industry trends, best practices in management and technical insights into paper coating and papermaking. Sessions have been organized and peer reviewed by industry professionals from PIMA, TAPPI Papermakers and TAPPI Coating and Graphic Arts Divisions.

PaperCon’s inaugural conference attracted 19% more attendees than 2007 and 23% more paper company employees than prior TAPPI/PIMA events!

Gateway to Success: People, Planet and Innovation

PIMA Management Program (invited speakers):

Executive Panel – a rare opportunity to gain insight from leading industry executives during this engaging panel discussion. These experienced leaders will discuss a variety of topical issues related to People, Planet and Innovation.

- J. Erik Fyrwald, Nalco - Chairman, President and Chief Executive Officer
- Mike Jackson, Verso Paper Corp. - President and Chief Executive Officer
- Joseph G. Morone, Albany International - President and Chief Executive Officer
- Mark A. Suwyn, NewPage Corporation - Chairman and Chief Executive Officer

Superintendent’s Roundtable – production managers from leading coated paper and board mills share knowledge

Mill Manager’s Roundtable – leaders address critical management issues in today’s mill environment

TAPPI Papermaking Program

Peer-reviewed and invited speaker sessions covering papermaking, engineering and process control topics:

- Wet end chemistry innovations and best practices – strategies to improve quality, runnability and reduce costs
- Effective paper machine measurement and performance – what upstream metrics actually affect your final product?
- Paper machine energy conservation – how to conserve and reduce carbon emissions without sacrifice
- Reducing paper and board variability – measurement and process control strategies that work

TAPPI Coating and Graphic Arts Program

Both peer-reviewed papers and invited speakers with a strong theme of sustainability. Carbon footprint, engineered biomaterials, recyclable barriers coatings and mill profitability improvements will all be addressed. Product quality will be discussed, including the relationships between coating structure and printability, and characterization and analysis of coating structure. Digital printing is highlighted, including a tutorial, a panel discussion and two different Lunch and Learn sessions. Other sessions include:

- Surface Energy and Electrical Conductivity
- Advances in Pigment Technology
- Advances in Roll Cover Technology (backing and calender roll)
- Metering Size Press Tutorial

PaperCon ‘08 Attendee Quotes:

“Networking was my #1 objective and I feel the format of the conference was very good for this. The receptions, lunches and sessions all lent themselves to networking.”

“Rates as one of the best Coating Conferences in past few years. Trade Fair portion well attended and very positive feedback from exhibitors.”

“Excellent Conference!”

“The combined conference is definitely the way to go.”

“Great conference and I look forward to attending next year.”

“Very smart and effective: combining meeting for the three groups, fixed fee for each mill, tabletop open time and location in same room as lunch and evening drinks/snacks.”

“Keep up the good work.”
Metso TechQuest

Designed to keep you current on Metso technology, two TechQuest seminars are scheduled, focusing on the latest technology for coating and papermaking. (invitation only)

Thomas V. Easterday
Senior Vice President, Secretary and General Counsel, Subaru of Indiana Automotive

Hear a remarkable success story in the use of recycled materials, reduction of waste, energy consumption and emissions as Mr. Easterday outlines how Subaru has met the challenge. Their manufacturing campus in Lafayette, Indiana employs over 3,000 people, produces nearly 200,000 vehicles per year and sends less material to the landfill than a single family home!

“The Strategic Future of Digital Printing for Graphic Communication”
Donald J. Burns
Director, Business Development Kodak Graphic Communications Group

Trade Fair and New Technology Showcase
The industry’s leading suppliers will showcase their latest innovations and services for all attendees during lunch and hospitality receptions. In addition, Tuesday’s New Technology Showcase will highlight the best new products with short (8-minute) commercial presentations. Exhibit booths and sponsorships are still available, visit www.papercon.org for the latest information.

Hot Topics Breakfast
Participate in small, face-to-face discussions on the hottest papermaking and coating topics for you and your business. Breakfast included.

PaperJam - tentative
Join your friends for a night of fun at St. Louis’ City Museum. A three-floor magical world forged of recycled, recovered and reshaped treasures, the City Museum houses some of the most captivating interactive art. Enjoy refreshments and live entertainment as you catch up with old friends and meet new ones.

Awards Gala Dinner and Dance
A first class evening of great food, dancing and recognition of the pulp and paper industry’s highest achievers of the year. ($35 additional fee required.)
## Conference Program

(subject to change)

### General Sessions

**Sunday May 31, 4:30pm-6:00pm**

**Coating Keynote and Opening Session**

"The Strategic Future of Digital Printing for Graphic Communication"

**Donald J. Burns**, Director, Business Development
Kodak Graphic Communications Group

**Monday June 1, 8:00am-9:30am**

**Opening Session & Keynote**

"Best Practices in Environmentally Sound Manufacturing: GOING LEAN AND GREEN"

**Thomas V. Easterday**, Senior Vice President, Secretary and General Counsel, Subaru of Indiana Automotive, Inc.

**Monday June 1, 9:30am-11:00am**

**Executive Panel Discussion**

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<tr>
<th>J. Erik Fyrwald</th>
<th>Mike Jackson</th>
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**Tuesday June 2, 1:30pm-3:00pm**

**New Technology Showcase (coating)**

Session Chairs: **Jeff Lange**, Western Polymer Corporation and **Gregg Reed**, Georgia-Pacific Chemicals

**Tuesday June 2, 3:30pm-5:00pm**

**New Technology Showcase (papermaking)**

Session Chair: **Bill Butterfield**, Stowe Woodward

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### Coating and Graphic Arts

**Monday June 1, 11:30am-1:30pm**

**CIG Lunch & Learn**

**Calendering** - "Advances in Roll Surface Coating for Release Applications". Understanding surface characteristics of rolls used in calendering and coating; ways to improving efficiency.

**Fundamentals** - Applications of field emission scanning electron microscopy to coating structure characterization and new inkjet web presses and their coating structure requirements.

**Coating Materials** - Digital printing is growing dramatically. Companies are developing coating formulations for papers that will be printed by digital printers. Be part of an interactive discussion.

**Printing** - New measurement techniques and the ability to measure ink mileage, multiple ink layer thicknesses, penetration of coating into the basesheet, uniformity and formation.

**Monday June 1, 1:30pm-3:00pm**

**Defining Sustainability for Packaging**

An introduction to sustainability issues and their impact on packaging and coated paper grades. Learn to use sustainability as a business advantage.

**Monday June 1, 3:30pm-5:00pm**

**Coated Paper Contribution to Carbon Footprint Reduction**

Various approaches to carbon footprint reduction are explored; energy savings at the size press through higher pigmentation loading, biopolymer utilization.

**Profitability Improvement**

Approaches in profitability improvement such as reducing coating color waste and strategic utilization of latex.

**Tuesday June 2, 8:00am-10:00am**

**Advances in Coating Pigments**

The state of technology in coating pigments, and new developments you can expect.

**Characterization and Analysis of Coating Structure**

A thorough characterization of coating structure and surface chemistry is necessary for better understanding the cause and effect of coating as it relates to its end use performance.

**Tuesday June 2, 8:00am-12:00pm**

**Digital Printing Tutorial**

Experts in liquid and dry toner laser as well as continuous and drop-on-demand ink-jet production platforms will review principles of operation and paper requirements. Look into the future of production digital printing.

**Tuesday June 2, 10:30am-12:00pm**

**Alternative Barriers**

Moderated session on new coating materials for water based barrier coating. Includes interaction discussions between panelists and the audience.

**Conductivity and Surface Energy**

How bulk paper conductivity and controlled surface finishing will impact improved paper functionalities.
Discusses developments in coater backing rolls and calender rolls. Learn how advanced cover materials and technology can improve product quality and productivity.

An invited roundtable discussion with TAPPI Coated Paper Printability Quality Course instructors Mika Antilla, (VTT) and Olli Hakkila, (Stora Enso) on coating and printing interactions, such as how the substrate and printing process influences final print quality.

Join the fun! This traditional event, named in honor of Robert "Bob" Hagemeyer is a great way to mix and mingle while joining casual coating technology discussions.

PIMA

Tuesday June 2, 1:30pm-5:00pm
Wednesday June 3, 8:00am-12:00pm

Metering Size Press Tutorial
A new look at this maturing technology from the perspective of advances in equipment, coating pigment and binder technologies. Insights into manufacturing traditional paper grades as well as new product ideas will be presented from a panel of experts in the industry.

Tuesday June 2, 3:00pm-5:00pm

Hagemeyer Happy Hour
Join the fun! This traditional event, named in honor of Robert “Bob” Hagemeyer is a great way to mix and mingle while joining casual coating technology discussions.

Wednesday June 3, 8:00am-10:00am

Coating Structure Effects on Printability
Coating structure and other properties affecting printing performance, and using them in designing coating formulations and selecting appropriate paper substrates for specific printing applications.

Advances in Roll Cover Technology
Discusses developments in coater backing rolls and calender rolls. Learn how advanced cover materials and technology can improve product quality and productivity.

Wednesday June 3, 10:30am-12:00pm

Advances in Printing
An invited roundtable discussion with TAPPI Coated Paper Printability Quality Course instructors Mika Antilla, (VTT) and Olli Hakkila, (Stora Enso) on coating and printing interactions, such as how the substrate and printing process influences final print quality.

PIMA Innovation

Monday June 1, 1:30pm-3:00pm

“Innovation at International Paper”
Mike Exner, Vice President, Containerboard, International Paper

“Conquering Innovation Fatigue in the Pulp and Paper Industries”
Jeff Lindsay, Cheryl Perkins and Mukund Karanjikar, Innovationedge

“Cascades’ Innovation Management System and Examples of Sustainable Innovations”
Dr. Roger Gaudreault, General Director of R&D, Cascades Canada

Monday June 1, 1:30pm-3:00pm & 3:30pm-5:00pm
Tuesday June 2, 10:30am-12:00pm

Manufacturing Reliability
• Maintainability and reliability design
• Partnership with engineering and operations
• Technical skills development
• Reliability-based spare parts management
• Predictive maintenance programs and diagnostic tools
• Operator driven reliability/basic care programs and tools
• Best reliability and maintenance practices and return on investment from safety, reliability and costs
• RCM-reliability centered maintenance methodology
• Root cause analysis (RCA) data collection, which problems to solve, problem solving methodologies, problem elimination.

Tuesday June 2, 1:30pm-5:00pm

Superintendent’s Roundtable
(presented by Couch Pit University, includes PIMA Brookshire Moore Superintendent of the Year award)

Seasoned mill supervisors will share their wisdom, insights and best practices on performance improvements through rebuilds, getting the most out of limited budgets, energy conservation, use of Six Sigma, managing economic downtime and much more.

Wednesday June 3, 8:00am-10:00am

State of the Industry
(includes PIMA Executive of the year award)

Peter Ruschmeier, Director, Barclays Capital

Wednesday June 3, 10:30am-3:00pm

Mill Manager’s Roundtable
(includes PIMA Mill Manager of the year award)

Leaders address critical management issues in today’s mill environment.
### Papermaking

**Monday June 1, 1:00pm-3:00pm**

**Paper Machine Measurement and Performance Kick-Off**

Session Chair: **Jeff Reese**, International Paper

- "Don’t Forget the Most Important Machine…"  
  **Jim Thompson**, Talo Analytic International

- "Measuring Paper Machine Performance"  
  **Richard A. Reese**, Dick Reese and Associates

**PM Measurement and Performance Kick-off Roundtable**  
**Jeff Reese**, International Paper

**Control Performance Indices and Their Applications**

Session Chairs: **Shih-Chin Chen**, ABB Inc.; **Ian Journeaux**, NewPage Corp.

- "A Fresh Look at Feed Forward Control"  
  **Bill Henry**, Retired, previously with Smurfit-Stone Container Corp.

- "Basis Weight Variability as a Key Performance Index"  
  **Jack Tippett**, Emerson Process Management

- "Quality Control System Performance – A Review to Evaluation Practices"  
  **Merja Mäkelä**, University of Applied Sciences

- "New Indices for Quantifying Sheet Quality and Troubleshooting"  
  **Shih-Chin Chen**, ABB Inc.; **Ian Journeaux**, NewPage Corp.

**Best Practices for Microbial Control**

Session Chair: **Terry Williams**, Rohm & Haas

- "5,5-Dimethylhydantoin (DMH) a Highly Effective, Halogen Stabilizer for Wet End Applications"  
  **M. Ludensky**, S. **Kopecky**, Philip Sweeney, Ph.D., Lonza Inc.

- "Management of Broke Spoilage"  
  **Laura Rice**, Nalco Company

- "Best Practices for Microbial Control in Additives"  
  **Kurt Bottjer**, Ashland Hercules Water Technologies

- "Best Practices for Influent Water Treatment"  
  **Chris Rooks**, Fred Ervin, Janet Woodward, Buckman Laboratories, Inc.

### Forming and Forming Fabrics

Session Chair: **Jimmy Jong**, FPInnovations - Paprican

- "Effects of Forming Fabrics Design on Drainage, Paper Quality and Linting – Pilot Machine Trials"  
  **Francis Fournier**, FPInnovations - Paprican

- "Effect of Center Plane Resistance on the Drainage and Sheet Forming"  
  **John Xu**, AstenJohnson Inc

- "Three-Dimensional Flow Field Analysis Through Forming Fabrics: Part 2"  
  **Ali Vakil**, University of British Columbia

**Monitoring Methods for Microbial Growth - Panel Discussion**

Session Chair: **Philip Sweeney**, Ph.D., Lonza Inc.

- Janet Woodward, Buckman Laboratories, Inc
- Marko Kolari, Kemira
- Laura Rice, Nalco
- Linda Robertson, International Microbial Associates
- Terry Williams, Rohm & Haas

### Reliability Measurement and Performance

Session Chair: **John Neu**, Albany International

- "Paper Machine Performance and Reliability, It’s All in the Numbers"  
  **Mark Latino**, Reliability Center, Inc.

- "Reliability and Maintenance Performance Measurement"  
  **Christer Idhammar**, IDCON, Inc.

- "Domtar Espanola Reliability Case Study: How Asset Health Data Has Been Centralized For Early Potential Failure Visibility and Avoidance"  
  **Gary Clackett**, Domtar Espanola; **Don Fitzgerald**, Ivara Corporation

- "Enhancing Productivity Through Improved Plant Reliability: Case Study of How a Strategic Partnership Took a Paper Machine from Worst to First Through Improved Operational Performance"  
  **Daniel Konstantinovsky**, ABB
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**Session Chairs:** Joe Genco, University of Maine; Jay Shands, Johnson Foils |
| “Stabilizing Dry Fiber Flow in the Thick Stock System”  
**Kevin Starr,** ABB Global Pulp and Paper Services |
| “Reducing Variability in Low Consistency Refining”  
**Brian Lacy,** J&L Fiber Services |
| “Approach Flow Considerations for Reduced Variability”  
**Robert Blount,** Bryan Reed, BE&K |
| “Stabilizing Saveall Filter Operations”  
**Jack Milliken, P.E.,** GL&V Pulp and Paper |
| **Innovations in Retention and Drainage Technology**  
**Session Chair:** Rosy Covarrubias, Buckman Laboratories |
| “Novel Retention and Drainage System Utilizes New Nanoparticle Silica Technology to Maximize Performance”  
**Mark Zempel,** Eka Chemicals, Inc |
| “Improving Filler and Fines Retention While Achieving Controllable Drainage in High Speed Paper Machines - Ellipsis™ Cationic Micropolymer Technology”  
**Casimiro da Silva Santos,** Nalco |
| “Second Generation Advanced Retention and Drainage Technology Continues to Improve Operational Efficiencies and Reduce Operating Costs”  
**John Hochu,** Ashland Hercules Water Technologies |
| “Novel Technology Based on Dual-products for Retention Gives Increased Runnability and Higher Ash Retention”  
**Lotta Kanto Öqvist,** Ashland Deutschland GmbH |
| **Paper Machine and Vacuum System Energy Conservation**  
**Session Chair:** Raymond J. Krumenacker, Dublin Steam Systems |
**Richard A. Reese,** Dick Reese and Associates, Inc. |
| “Reducing Energy Intensity in Papermaking Through Energy Efficiency”  
**Tom Wroblewski, P.E.,** CleanTech Partners |
| “Ten Myths Revealed about Paper Machine Vacuum Systems and Related Processes”  
**Jussi Lahtinen,** Jyrki Uimonen, Runtech Systems Oy |

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| **Steambox Measurement and Performance - Panel Discussion**  
**Session Chair:** Timothy Patterson, Ashland Hercules Water Technologies |
| **Philip Wells,** Wells Enterprises  
**Ankur Gupta,** Metso |
| **Improving Grade Change Performance**  
**Session Chair:** Ian Journeaux, NewPage Corp. |
| **Challenges with Paper Machine Grade Changes**  
**Joyce Choi, Danlei Chu,** Honeywell |
| **Simplified Approach to Modeling of Grade Change in Paper Machine Dryer**  
**Senthilmurugan S,** ABB Corporate Research Center;  
**Tarun Mathur,** ABB Corporate Research Center & IIT Bombay;  
**Kartikeya Milind Shah,** IIT Bombay |
| **Multivariable Control and Energy Optimization of Tissue Machines Using Multiple Moisture Measurement**  
**Stephen Chu, Johan Backstrom,** Honeywell |
| **Papermaking Additives Roundtable**  
**Session Chair:** Larry Anker, Ashland Hercules Water Technologies |
| **Wet End Energy Conservation**  
**Session Chair:** Martti Tuomisto, Metso |
| **The Impact of Specialty Chemical Programs on Mill Energy Use**  
**Lisa M. Wesoloski,** Nalco Company |
| **Innovative Mixing of Paper Chest with 6%-14% Consistency - Saves Energy and Improves Quality**  
**Dr. Wojtek Wyczalkowski,** Marc Moseley, Philadelphia Mixing Solutions Ltd. |
| **Energy Efficiency in Paper Production using Direct Steam Injection**  
**David Degelau,** Hydro-Thermal Corp |
# Papermaking

**Tuesday June 2, 1:30pm-3:00pm**

**Paper Machine Data Management**
Session Chair: **Keith Kemp**, AstenJohnson

  **Dean Ferguson**, Capstone Technology Corp.

- “Deploying a Real-Time Data and Events Infrastructure to Improve Paper Machine Operations”
  **Dave Stockford**, OSIsoft

  **Jim Pigott**, TietoEnator

**MD Weight Variability in the Time Scale of 1 min-1Hz - Panel Discussion**
Session Chair: **Scott Pantaleo**, International Paper

- **Phil Taber**, AstenJohnson (recently retired)
- **Timo Balser**, Voith
- **Jim Ewald**, Paperchine

**Filler Tutorial**
Session Chair: **Scott Yeakey**, Omya Inc.

- **Scott Yeakey**, Omya Inc.
- **Bruce Evans**, Specialty Minerals, Inc.

**Dryer Section Energy Conservation**
Session Chair: **Pekka Kormano**, Deublin Steam Systems

- “Energy Focused Dryer Performance Indicators”
  **Jeff Chaloux**, Jim Maggard, Kadant Johnson

- “A Systematic Approach to Optimize Dryer Performance and Energy Savings – Case Studies”
  **Ajit K. Ghosh**, Visy Technical and Innovation Centre

- “Dryer Fabrics and Energy Consumption in the Drying Section”
  **Ian Lang**, AstenJohnson

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# Papermaking

**Tuesday June 2, 3:30pm-5:30pm**

**Press Section Measurement and Performance**
Session Chair: **Ian Lang**, AstenJohnson

- “Reducing Variability in the Press Section”
  **Daniel Hedou**, AstenJohnson

- “Press Section Performance Monitoring”
  **Ross MacHattie**, Honeywell

- “Maximizing Machine Efficiency in the Press Section for Graphic Papers”
  **Robert M. Lowe, Melissa Callejo, Terry Lemarande, Bob Barlow**, Nalco Company

- “Enter Mini Shoe Presses”
  **Martti Tuomisto**, Metso Paper USA, Inc.

**Filler Technology Innovations**
Session Chair: **Larry Anker**, Ashland Hercules Water Technologies

- “Going from Acid to Neutral Papermaking and GCC Filling in Newsprint”
  **Louis Morimanno, Matti Forsblom**, Omya

- “Improved Productivity in Linerboard Using Kaolin Filler”
  **Leslie McLain, Perry Veal, Roger Wygant**, IMERYS; **Dr. Bill Smith**, Paradigm Chemical Company; **Eddy Turner**

- “Carbon Dioxide based Applications for Optimization of Calcium Carbonate Containing Papermaking Processes”
  **Lotta Jansson**, Linde AG

- “Innovative Process to Manufacture Calcium Carbonate by the Causticizing Process in a Kraft Pulp Mill”
  **Haruo Konno**, Nippon Paper Industries, Co., Ltd

**Additional Energy Conservation Opportunities**
Session Chair: **Jeff Reese**, International Paper

- “Cost Savings with Effective Chemicals Mixing System at Mitsubishi Paper Hachinohe Mill PM 7”

  **Kalle Riihimaki**, Balance Engineering Ltd.

- “Insulation, The Forgotten Technology; For Energy Conservation and Emission Reduction”
  **Ronald King**, National Insulation Association

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# Papermaking

**Tuesday June 2, 3:30pm-5:00pm**

**Paper Machine Measurement and Performance - Panel Discussion**
Session Chair: **Richard A. Reese**, Dick Reese and Associates

- **John Neun**, Albany
- **Eric Diamond**, Weavexx
- **David Buchanan**, Voith
- **Dave Burton**, AstenJohnson

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# Papermaking

**Wednesday June 3, 8:00am-10:00am**

**Clothing Performance Monitoring - Panel Discussion**
Session Chair: **Richard A. Reese**, Dick Reese and Associates

- **John Neun**, Albany
- **Eric Diamond**, Weavexx
- **David Buchanan**, Voith
- **Dave Burton**, AstenJohnson

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**Innovations and Best Practices: Wet End Chemistry**

### Papermaking
**Wednesday June 3, 8:00am-10:00am**

Session Chair: Kerry Figiel, International Paper

**Green Papermaking Additives**  
Session Chair: Philips Oriaran, Georgia Pacific  
“Green Papermaking – Chemical Innovations to Reduce Environmental Impact”  
Michael O’Byrne, Ashland Hercules Water Technologies  
“The Promise of Biobased and Biodegradable Polymer Materials in Paper and Paperboard Products - Reducing Carbon Footprint and Improving Environmental Performance”  
Ramani Narayan, Michigan State University  
“Agricultural Based Solvent Cleaners for the Pulp and Paper Industry”  
George Thomas, Buckman Laboratories  
“New Biosolvent Technology Addresses Environmental, Health, and Safety Issues of Traditional Solvents”  
Mike Miller, Ashland Hercules Water Technologies

**Wednesday June 3, 10:30am-12:00pm**

**Papermaking Roundtable**  
Session Chair: Gary Nyman, International Paper

**MD Weight Variability in the Frequency Range of 1-40 Hz - Panel Discussion**  
Session Chair: Paul Kristopeit, AstenJohnson  
- Phil Taber, AstenJohnson (recently retired)  
- Ann Timberlake, Metso

**Sizing Innovations**  
Session Chair: Darren Swales, Kemira  
“Fatty Acid-Starch Complex in the Application of Linerboard Surface Sizing”  
Jinhua Yan, Guangdong Industry Technical College; Yulin Deng, IPST @ Georgia Tech  
“Dramatic Enhancements of the Ink-Jet Printability of Uncoated Paper”  
Dr. Daniel F. Varnell, Ashland Hercules Water Technologies  
“Alternative ASA Technology Advantage and Disadvantage”  
Manuel Ruiz, Buckman Laboratories, Inc.

**Wednesday June 3, 1:30pm-3:00pm**

**Paper Machine Measurements and Control**  
Session Chair: Jack Tippett, Emerson Process Management  
“Raised Productivity with Virtual Sensors”  
Jens Haag, Niels Hardt, Voith Paper Automation GmbH & Co.KG  
“Optimized Cross Direction Control of Weight and Porosity”  
Amor Lahouaouala, Ross MacHattie, Honeywell  
“Next Generation Optical Caliper Sensor Technology”  
Ake Hellstrom, Rambod Naimimohasses, ABB Inc.

**Paper Machine Auxiliary System Measurement and Performance**  
Session Chair: Jon Kerr, Andritz  
“Practical On-Line Vibration Monitoring for Paper Machines”  
J. Michael Robichaud, P.Eng., CMRP, Bretech Engineering Limited  
“Papermachine Room Ventilation Guidelines”  
John Nielsen, BE&K  
“Monitoring the Performance of Pumping Systems”  
Joe Ruggiero, ITT/Goulds; Mike Pemberton, ITT Industrial Process

**Wednesday June 3, 3:30pm-5:00pm**

**PM Measurement and Performance Wrap-up Roundtable**  
Session Chair: Jeff Reese, International Paper

**Fiber Scale Formation - Panel Discussion**  
Session Chair: Dr. Cyrus Aidun, IPST @ Georgia Tech  
Dr. Cyrus Aidun, IPST @ Georgia Tech  
“Wet End Chemistry of Papermaking and Paper Formation: Theory and Practice”  
Dr. Yulin Deng, IPST @ Georgia Tech  
“Modeling of Flexible Fiber Suspensions and Web Formation”  
Dr. Dewei Qi, Western Michigan University

**Innovations in Strength Technology**  
Session Chair: Rosy Covarrubias, Buckman Laboratories  
“Strength for the Future - Modern Concepts and Mechanisms”  
Anton Esser, BASF Corporation  
Enhanced Fiber Additives for Strength and Machine Performance Improvement  
Jagannadh Satyavolu, Cargill, Inc.  
Use of PLA as a Paper-reinforcing Agent  
Asif Hasan, Biljana Bujanovic, Ph.D., Tom Amidon, SUNY-ESF

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[www.papercon.org](http://www.papercon.org)
Couch Pit University Spouse / Guest Program
CPU spouses and guests can enjoy a special program on Saturday May 30 and Sunday May 31, which includes breakfast each morning. Additional fees may apply for extra activities depending on what you choose to do. Highlights include a Welcome to St. Louis program and a Historic City Walking Tour. Cost: $20 plus additional fees depending on what options chosen.

PaperCon Spouse / Guest Events
During the conference, spouses and guests can enjoy a special program, make acquaintances and enjoy the conference meals and receptions. Highlights include a Welcome to St. Louis program, a Historic City Walking Tour, an Anheiser Busch Brewery Tour, a day of “a la carte” shopping in and around St. Louis, and a special “Yoga for Everyone” class. Detailed Spouse/Guest Program information, including links to area information, is available at www.papercon.org. Cost: $50 per person and includes breakfast each morning.

5th Annual Runnability 5K Fun Run / 1.5 Mile Walk
Join colleagues Wednesday, June 3, 6:00-8:00am, for the Runnability Run/Walk featuring a 5-kilometer competitive run and a 1.5-mile non-competitive walk. The course starts and finishes near the Gateway Arch along the river, and is wholly contained within the park surrounding the arch! For more information, go to www.tappi.org/funrun. See page 11 for registration rates.

PaperCon Golf Outing
Enjoy a day on the Jack Nicklaus Signature Course, Stonewolf Golf Club, Sunday, May 31, 7:30am-3:00pm. The outing will be a scramble format with prizes. Box lunches and transportation to and from the hotel provided. Cost: $145 - must sign-up before April 6. (rental clubs available from course)

Visit the PaperCon Bookstore
Only PaperCon’09 brings the industry’s best selling books right to you. As a conference participant, you can also qualify for a special conference only discount on the following titles.
For detailed information about any of these visit www.tappi.org/bookstore.

Cost Saving Strategies in Papermaking Chemistry
0101R325 • ISBN: 15951018374 • List: $215
Member: $155 • Conference Price: $132

0202SMOOK • ISBN: 0969462859 • List: $92
Conference Price: $90

2008 Advanced Coating Proceedings
ADCTG-08 • List: $198 • Member: $149
Conference Price: $127

2008 PaperCon Proceedings
PAPERCD-08 • List: $111 • Member: $74
Conference Price: $63

Monograph on Microbiology of Papermaking Systems
0101R323 • ISBN: 595101624 • List: $175
Member: $135 • Conference Price: $115

Pulp & Paper Energy Best Practices Guidebook
0101R316 • ISBN: 595101209 • List: $83
Member: $57 • Conference Price: $49
**REGISTRATION INFORMATION**

<table>
<thead>
<tr>
<th>Fees (US Dollars)</th>
<th>On or before May 1, 2009</th>
<th>After May 1, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAPPI / PIMA Member *</td>
<td>$ 985</td>
<td>$ 1,480</td>
</tr>
<tr>
<td>Non-Member</td>
<td>1,480</td>
<td>2,220</td>
</tr>
<tr>
<td>Group Rate TAPPI / PIMA Member (three or more from same company)</td>
<td>785</td>
<td>1,175</td>
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<tr>
<td>Group Rate Non-Member (three or more from same company)</td>
<td>1,110</td>
<td>1,710</td>
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<tr>
<td>Single day (TAPPI / PIMA Member)</td>
<td>575</td>
<td>815</td>
</tr>
<tr>
<td>Single day (Nonmember)</td>
<td>815</td>
<td>1,220</td>
</tr>
<tr>
<td>Speaker, Full Conference **</td>
<td>585</td>
<td>815</td>
</tr>
<tr>
<td>Speaker, Single Day **</td>
<td>no charge</td>
<td>no charge</td>
</tr>
<tr>
<td>Student (TAPPI / PIMA Member)</td>
<td>25</td>
<td>50</td>
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<td>Student (Non-Member)</td>
<td>75</td>
<td>100</td>
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<tr>
<td>Retired</td>
<td>450</td>
<td>450</td>
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<tr>
<td>SPECIAL MILL RATE (unlimited attendees for one price!)</td>
<td>2,550</td>
<td>2,700</td>
</tr>
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</table>

* TAPPI/PIMA membership is only $174 and can be included with your registration! Members of PAPTAC, ABTCP CO2, Pira, PI, PTS, RISI, Appita and TAPPI Japan may register at the TAPPI / PIMA Member rate.

** All speakers should register in advance, even if attending only one day.

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**THREE EASY WAYS TO REGISTER:**

1. Go online to www.papercon.org and click “Register Now”

2. Phone 1.800.332.8686 (US), 1.800.446.9461 (Canada) or +1.770.446.1400 (Worldwide)

3. Download a printable registration form from www.papercon.org, complete and mail or fax with payment information to:

   TAPPI
   P.O. Box 933644
   Atlanta, GA 31193-3644
   USA
   Fax: +1.770.209.7206

Need to make a Wire Transfer for payment? Call +1.770.446.1400 for details.

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**Cancellation**

If you need to cancel, your full registration fee will be refunded if TAPPI’s Registration Department receives written notification (fax acceptable at +1.770.209.7206) by May 1, 2009. Please note: There will be a 50% refund for all written cancellations made after May 1, 2009, but before May 21, 2009. After May 21, 2009, no refunds can be issued. Substitutions, however, will be accepted any time without a penalty.

**Meals**

Continental breakfast on Monday, lunch on Monday and Tuesday, receptions with appetizers and refreshments on Sunday, Monday and Tuesday evenings, as well as the PaperJam social event Monday night are all included with registration. Registered Spouses and Guests may also join you for these meals and functions for no additional cost.

**Hotel Information**

PaperCon will take place at the Renaissance St. Louis Grand & Suites Hotel. A block of discounted rooms has been reserved for PaperCon participants that includes complimentary in-room high speed Internet access.

Rate: $165 single/double, plus 14.99% tax.

Reservation Deadline: Friday, May 8, 2009. To reserve your room go to www.papercon.org and click on the hotel reservation link, or call 1.314.621.9600. Be sure to reserve your room by May 8, 2009 and mention you’re attending PaperCon to qualify for the discounted rate listed above.

**Discounted Car Rental**

Avis offers special discounts off regular rates for conference participants. To reserve your car, call 1.800.831.8000 and refer to the code AWD: #U226600.

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**Special Registration Offer for Mills and Paper Company Offices**

An unlimited number of employees from an individual site can attend for one flat fee. Employees must work together at the same office and register using a special form available at www.papercon.org. For more info contact Scott Springmier sspringmier@tappi.org.

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www.papercon.org