

Second Annual

PaperCon '09

Meet Me in St. Louis



Solutions for a Changing World

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



www.papercon.org

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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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!

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."

Keynote Speakers:

“Best Practices in Environmentally Sound Manufacturing: GOING LEAN AND GREEN”

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**



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)

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.)

Schedule-at-a-Glance

Saturday, May 30

7:00 am – 10:00 am Couch Pit Spouse/Guest Continental Breakfast and Welcome Orientation
8:00 am – 4:00 pm Couch Pit University

Sunday, May 31

7:00 am – 9:30 am Spouse/Guest Continental Breakfast
7:30 am – 3:00 pm PaperCon Golf Tournament
8:00 am – 4:30 pm Coated Paper Printability Course
4:30 pm – 6:00 pm Coating Keynote and Opening Session
6:00 pm – 8:00 pm Hospitality Reception & Poster Session in Trade Fair

Monday, June 1

7:00 am – 8:00 am Continental Breakfast
8:00 am – 9:30 am Opening Session and Keynote Address
8:00 am – 11:00 am Spouse/Guest Breakfast and St. Louis Orientation
8:00 am – 4:30 pm Coated Paper Printability Course
9:30 am – 11:00 am Executive Panel
10:30 am – 12:00 pm Sessions
11:30 am – 1:00 pm Lunch in Trade Fair
12:00 pm – 1:30 pm CIG (Coating) Lunch and Learn
1:00 pm – 5:00 pm Sessions
4:30 pm – 6:30 pm Hospitality Reception & Poster Session in Trade Fair
7:30 pm – 10:30 pm PaperJam Theme Party - tentative

Tuesday, June 2

6:30 am – 8:30 am MetsoTechQuest Breakfast – Coating
6:45 am – 8:00 am Hot Topics Breakfast
8:00 am – 10:00 am Spouse/Guest Continental Breakfast
8:00 am – 12:00 pm Sessions
12:00 pm – 1:30 pm Lunch in the Trade Fair
1:00 pm – 3:00 pm Sessions
1:30 pm – 5:00 pm New Technology Showcase & Sessions
3:30 pm – 5:30 pm Hagemeyer Happy Hour
5:00 pm – 7:00 pm Hospitality Reception in the Trade Fair
7:00 pm – 9:30 pm Awards Gala Dinner and Dance

Wednesday, June 3

6:00 am – 8:00 am TAPPI Fun Run
6:30 am – 8:00 am Metso TechQuest Breakfast – Papermaking
8:00 am – 10:30 am Spouse/Guest Breakfast and Yoga
8:00 am – 12:00 pm Sessions
12:00 pm – 1:30 pm Free Lunch for Committee Meetings
1:00 pm – 5:00 pm Technical Sessions

Coated Paper Printability Course

Learn about the newest trends and basic practices employed today in offset, rotogravure, flexography and digital (inkjet and electrographic printing). The future of print media will also be explored. Appropriate for both technical personnel at printers or paper companies and sales/marketing professionals.

Sunday May 31 - Monday June 1, 8:00am-4:30pm
Attendees can participate in the
PaperCon receptions and trade fair.

Separate fee required. See www.tappi.org for more details.

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



J. Erik Fyrwald
Chairman, President
and Chief Executive
Officer, Nalco



Mike Jackson
President and Chief
Executive Officer
Verso Paper Corp.



Joseph G. Morone
President and Chief
Executive Officer
Albany International



Mark A. Suwyn
Chairman and Chief
Executive Officer
NewPage

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

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 milage, 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.

Coating and Graphic Arts

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 Hakki, (Stora Enso) on coating and printing interactions, such as how the substrate and printing process influences final print quality.

PIMA

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

Innovation

"Lessons of Collaborative Innovation for the Forest and Paper Industry"

David Carter, Solutions Executive, IBM

"Tough Times for Innovators: What Can We Learn from Hall of Fame Inductees?"

Alan Button, David Lee, Harry Spiegelberg, Board of the Paper Industry International Hall of Fame

"Lighting the Way to Innovation: Lessons from the Journey at Orion Energy Systems"

Neal Verfuert, President and CEO, Orion Energy Systems

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

Innovation

"Driving Growth through Innovation at Neenah Paper"

Steve Rosenberg, Director of Business Development, Neenah Paper

"Innovation at Buckman"

Rosy Covarrubias, Group Manager Applications, Buckman Laboratories

"University-Industry Partnerships for Innovation and Commercialization of Technologies"

Harry Cullinan, Director of the Alabama Center for Paper and Bioresource Engineering, Auburn University

PIMA

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

Innovation

"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.

CONFERENCE PROGRAM

(SUBJECT TO CHANGE)

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**, New Page 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 Sweeny, 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.

Papermaking

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

Pulp and Wet End PM Measurement and Performance

Session Chair: **Philip Wells**, Wells Enterprises Inc.

"Papermakers, Are You Getting the Pulp Property Information you Need?"

Alan F. Button, Buttonwood Consulting, LLC

"Refiner System Monitoring and Control Strategies"

Shawn R. Berg, J&L Fiber Services

"Best Practices for the Stability and Agility of a Production Line"

Seyhan Nuyan, Metso Automation

Forming and Forming Fabrics

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

"Effects of Forming Fabrics Design on Drainage, Paper Quality and Linting – Pilot Machine Trials"

Francis Fournier, FPIInnovations – 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 Sweeny, Ph.D.**, Lonza Inc.

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

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

Reliability Measurement and Performance

Session Chair: **John Neun**, 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 Konstantinovskiy, ABB

Papermaking

Tuesday June 2, 8:00am-10:00am (cont.)

Reducing Paper Machine Variability in the Thin and Thick Stock Flow Loops - Tutorial

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**, Deublin Steam Systems

"Measuring Paper Machine Energy Performance"
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"
Douglas F. Sweet, P.E., Doug Sweet & Associates, Inc.

"Energy Savings in Paper Machine Vacuum System – How to Utilize Modern Process & Variable Speed Drive Technology"
Jussi Lahtinen, **Jyrki Uimonen**, Runtech Systems Oy

Papermaking

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

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; **Kartikaya 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



CONFERENCE PROGRAM

(SUBJECT TO CHANGE)

Papermaking

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

Paper Machine Data Management

Session Chair: **Keith Kemp**, AstenJohnson

"Integrated Mill Intelligence Tools Help Maximize Paper Machine Performance"

Dean Ferguson, Capstone Technology Corp.

"Deploying a Real-Time Data and Events Infrastructure to Improve Paper Machine Operations"

Dave Stockford, OSIssoft

"Real-Time Costing for the Pulp and Paper Industry. Make Smarter Decisions and Become More Profitable"

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 Balsler**, 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 Kormanio**, 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



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 Lemerande**, **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

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

Additional Energy Conservation Opportunities

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

"Cost Savings with Effective Chemicals Mixing System at Mitsubishi Paper Hachinohe Mill PM 7"

Jouni Matula, Wetend Technologies Ltd.; **Ryouhei Watanabe**, Mitsubishi Paper Mills Limited

"Life Cycle Cost Based Optimization of PM Heat Recovery System for Machine Room Ventilation"

Kalle Riihimaki, Balance Engineering Ltd.

"Insulation, The Forgotten Technology; For Energy Conservation and Emission Reduction"

Ronald King, National Insulation Association

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

Papermaking

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

Paper Machine Sensors Handbook - Tutorial
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 Lahouaoula, **Ross MacHattie**, Honeywell

"Next Generation Optical Caliper Sensor Technology"

Ake Hellstrom, **Rambod Naimimohasses**, ABB Inc.

Papermaking

Wednesday June 3, 1:30pm-3:00pm (cont.)

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

Innovations in Deposit Control Technology

Session Chair: **Eric Wagner**, MWW

"Advanced Control of Hydrophobic Contaminants in the Paper Machine Wet End"

Laura Sherman, Nalco Company

"Sustainable Cleaning and Deposit Control"

John Schwamberger, DuBois Chemicals

"How Can Measuring Colloidal Organic Variability Improve Paper Machine Runnability?"

Danny Haynes, Eka Chemicals, Inc.

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

"Mechanics of Fiber-fiber Interaction and Paper Formation: Theory and Practice"

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

PaperCon '09

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

Handbook for Pulp and Paper Technologists,
Third Edition (The Smook Book)
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

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

*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.

Spouse/Guest Program - Couch Pit University	\$ 20
Spouse/Guest Program - PaperCon	50
Golf Outing (Scramble format, includes transportation and lunch)	145
Runnability Fun Run/Walk	25
Runnability Fun Run/Walk – Student	10
Awards Gala Dinner and Dance	35
Coated Paper Printability Course - Member	850
Coated Paper Printability Course - Nonmember	1,250

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.

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.

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.

PaperCon '09

www.papercon.org



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