Preliminary Programme

Updated on March 26, 2008
Join us in Vancouver, BC Canada from June 16-18 for the bi-annual Control Systems Conference, and the international Pan-Pacific Conference. Control Systems is held every two years and is the preeminent conference in the area of process control and systems engineering for the pulp and paper industry. We are pleased to incorporate the Pan-Pacific Conference, and its sponsoring associations: Appita (Australia/New Zealand), ATCP (Chile), Japan TAPPI, KTAPPI (Korea), PAPTAC (Canada), PI (Finland), SPCI (Sweden), TAPPI (USA), TAPPI Philippines, and Taiwan TAPPI. Further information and on-line conference registration are available at WWW.PAPTAC.CA

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Kunitaka Toyofuku, Japan TAPPI, Japan
Jong Myoung Won, President of Korea TAPPI, South Korea
SUNDAY June 15, 2008
18:30–20:30  Conference Registration
19:30      Speakers’ Briefing and Reception

MONDAY June 16, 2008
07:30–11:30  Conference Registration
08:00–12:00  Workshop, Optimization
13:00–16:00  Conference Registration
13:00–15:00  Workshop (con’t)
15:00–16:30  Pan-Pacific Conference
16:30–18:30  Poster Session, Welcoming Reception & Table Top Exhibition (See Pg.15)

TUESDAY June 17, 2008
07:30–11:30  Conference Registration
08:00–12:20  Cross-direction Modeling and Control
13:00–16:00  Conference Registration
13:30–17:10  Measurements and Sensors
18:30      Conference Reception and Banquet

WEDNESDAY June 18, 2008
07:30–11:30  Conference Registration
08:00–10:30  Control and Optimization Methods
10:50–12:05  Optimization of the Paper Machine
13:00–16:00  Conference Registration
13:15–14:30  Optimization of the Paper Machine (con’t)
14:30–15:35  Modeling and Optimization in the Kraft Mill
16:00–18:05  Modeling the Paper Machine
              End of Conference
Workshop
8:00-12:00 & 13:00-14:45

Workshop on Optimization
M. PERRIER and B. SRINIVASON, École Polytechnique de Montréal, Montréal, QC, Canada and M. GUAY, Queen’s University, Canada

15:00-16:30
Pan-Pacific Conference Presentations
& C. Howard Smith Presentation

Welcome address
G.A. DUMONT, University of British Columbia, Vancouver, BC, Canada

15:10
Japan - Pan-Pacific Presentation

15:20
Australia/New Zealand - Pan-Pacific Presentation

15:30
South Korea - Pan-Pacific Presentation

15:40
USA - Pan-Pacific Presentation

15:50
Canada - Pan-Pacific Presentation

16:00
PAPTAC C. Howard Smith Award Winner
A New Model for Maximizing the Bending Stiffness of a Symmetric Three-Ply Paper or Board,
S. NAVAEE-ARDEH, École Polytechnique, Montreal, QC, Canada
Dynamic Verification for Soft Sensor Applications, K. KONKARIKOSKI, Tampere University of Technology, Finland and A. Alonso, Complutense University of Madrid, Spain


Optimize Your Process During Normal Operation, M. RUEL, Top Control inc., Canada, presented by S. Symons, Matrikon, Canada

An Insight View into European Research on Modelling and Simulation in Pulp and Paper, A. BLANCO, Complutense University of Madrid, Madrid, Spain, E. Dahlquist, Mälardalen University, Sweden, J. Kappen, PTS Papiertechnische Stiftung, Germany, J. Manninen, VTT, Finland, C. Negro and R. Ritala, Tampere University of Technology, Finland

Application of Multivariable Predictive Controllers to Large Scale Distributed Control Systems, A. LAHOUAOULA, J. Backström, R. Vyse and T. Steele, Honeywell Process Solutions, Canada


Distributed Model of a Continuous Biodrying Process for Drying Pulp and Paper Mixed Sludge and Comparison with Experimental Results, S. NAVAEE-ARDEH, École Polytechnique, Canada
Cross-direction Modeling and Control

8:00
PLENARY PRESENTATION: A Classical Control Approach to Some Non-Classical Problems,
G. STEWART, Honeywell Automation & Control Solutions, Canada

8:50
A Robust Stability Criterion for Misalignment Uncertainties in Cross-Directional Processes,
M. AMMAR, and G.A. Dumont, University of British Columbia, Canada

9:15
A New Approach to Multi-array Cross-directional Control,

9:40
On-line Automatic Mapping Detection without Compromising CD Quality,
C.Y. FU, Metso Automation (Canada) Ltd., Canada, J. Ollanketo and J. Mäkinen, Metso Automation Inc., Finland

10:05 Coffee break

10:30
Scanner Path as a Manipulatable Variable for Optimal Control and Diagnostics of CD Variations,
J. YLISAARI, K. Konkarikoski and R. Ritala, Tampere University of Technology, Finland

10:55
Cross-Directional Loop-shaping Using Spatial Transfer Functions,
M. AMMAR and G.A. Dumont, University of British Columbia, Canada

11:20
Data Assimilation Methods for Estimating Paper Web Variations,
V. MANNINEN, P. Ptak, M. Tolonen and T. Kauranne, Lappeenranta University of Technology, Finland and T. Kokko, Metso Automation, Finland

11:55
A Dual Data Set of Traversing On-line Scans and High Resolution ATPA Analysis for Studying CD/MD Separation on Paper Machines,
P. PTAK, Lappeenranta University of Technology, Finland, M. Mäkelä, Kymenlaakso Polytechnic, Finland, M. Hiertner, Stora Enso, Sweden, R. Ritala, Tampere University of Technology, Finland and T. Kokko, Metso Automation, Finland


14:20  Recent Advances in Roll Runnability Measurement and Control, S. NUYAN, Metso Automation USA Inc., USA and C.Y. Fu, Metso Automation (Canada) Ltd., Canada


15:10 Coffee break

15:30  Use of Data Driven Technique to Analyse and Improve Black Liquor Evaporator Operation, G. Labonne and Y. Gilbert, Smurfit Stone, Canada, R. Platon and M. AMAZOUZ, Centre de la technologie de l’énergie de CANMET-Varennes, Canada

15:55  Development and Application of Vibrational Spectroscopy for On-line Process Analysis and Control, B.J. ALLISON, L. Wallbacks and T. Trung, FPInnovations - Paprican, Canada

16:20  Enhancement of the Electromagnetic Flowmeter, its History and Future, T. INAMI, Yamatake Corporation, Japan

16:45 End of day

18:30  Reception and dinner at the Vancouver Aquarium (see pg. 15)
SESSIONS
WEDNESDAY, JUNE 18 2008
8:00-12:05

Control and Optimization Methods

8:00
PLENARY PRESENTATION
The Challenges and Rewards of Bringing APC to Industry,
B. GOUGH, Andritz Automation, Canada

8:50
Low-order Feedforward Design Optimizing the Closed-Loop Response,
A. ISAKSSON, M. Molander, P.E. Modén ABB Corporate Research, Sweden, T. Matsko, ABB Service, USA

9:15
A Hybrid Smith Predictor for Improved Dead-time Compensation using Kalman Filtering Techniques,
J. HAAG, Voith Paper Automation GmbH & Co. Germany

9:40
A New Decision Tool using MPC for the Production Line Evolution,
M. PINARD, and L. Laperrière, CIPP/UQTR, Canada

10:05
Modeling and Control of a Pulp Flotation Column,
S. GENDRON, B. Pigeon, G.M. Dorris, N. Pagé and Y. Ben, FPInnovations - Paprican Division, Canada

10:30 Coffee break

Optimization of the Paper Machine

10:50
Combined Experimental and Model Based Optimisation of Formation and Retention,
W. DIETZ, J. Kappen and C. Mannert, PTS Papiertechnische Stiftung, Germany, P. Huber, CTP Centre Technique du Papier, France

11:15
A Cross-Application Solution: Quality-based Re-trimming Optimization,
I. HARJUNKOSKI, ABB Corporate Research, Germany

11:40
Towards Coherent Quality Management with Bayesian Network Quality Model and Stochastic Dynamic Optimization,
A. ROPPONEN and R. Ritala, Tampere University of Technology, Finland
Optimization at the Paper Machine (Con’t)

13:15
Increased Production and Improved Quality on Paper Machines by the Use of Advanced Process Control: Some European Case Studies,
P. AUSTIN, Perceptive Engineering Ltd., England

13:40
Nonlinear Multivariable Automatic Grade Change Control of Paper Machines,
J. BACKSTRÖM, M. Björklund, (Now with Mondi Paper, Sweden), P. Nafissi, D. Chu, and P. Baker, Honeywell Process Solutions, Canada

14:05
A Benefits Analysis of Multivariable Machine Directional Control of Paper Machines,
J. BACKSTRÖM, P. Nafissi, D. Chu and P. Baker, Honeywell, North Vancouver, BC

Modeling and Optimization in the Kraft Mill

14:30
Modelling and Simulation of the Kraft Pulp Fiber Line,
A. EGAS, Universidade de Coimbra, Portugal,
R.M. Simões, Univ. Beira Interior, Covilhã, Portugal

14:55
Optimal Grade Transition in a Continuous Pulp Digestor,
N. PADHIYAR, ABB Global Services Ltd., India and S. Bhartiya, Indian Institute of Technology, India

15:10
Effect of Variability on the Thermal Efficiency of a Kraft Mill Evaporation Unit,
R. PINTO, École Polytechnique de Montréal / FPInnovations - Paprican, Canada, E. Espejel, M. Perrier, and J. Paris, École Polytechnique de Montréal, Canada

15:35 Coffee Break
Modeling the Paper Machine

16:00
Estimation of Paper Formation using Recursive Least Squares Method,
T. YLI-FOSSI and P. Lautala, Tampere University of Technology, Finland, T. Harju, M. Friman and J. Mäkinen, Metso Automation Inc., Finland

16:25
The Paper Machine Without Feedback Control - A Vision,
M. HIERTNER, Stora Enso, Sweden

16:50
Online Formation Monitoring and Control,
M. TAYLOR and A. Ghosh, Iggesund Workington Mill, UK, H. Wang, M. Brown, University of Manchester, UK

17:15
Modeling and Control of Basis Weight and Moisture Content in Papermaking Process Using Artificial Neural Networks,
X. ZHONG-JUN, W. Meng-xiao, Shaanxi University of Science and Technology, Xi’zn Shaanxi, China

17:40
Pulp Stock: Jet Speed and Pulp Fiber Movement on the Wire Part of a Paper Machine,
Y. MORI, N. Ohno, H. Daimon, I. Kodaka, Oji Paper Co., Ltd., Tokyo, Japan

End of Conference
Conference Registration

Pre-registration deadline is: May 16, 2008, after which all delegates can register on site. Please note that on-site registrations are slightly higher. Please return the enclosed pre-registration form along with payment to:

Andrea Borrelli, PAPTAC, 740 Notre-Dame W, Suite 1070, Montreal, Quebec H3C 3X6 (Canada), Tel: 514-392-6961, Fax: 514-392-0369, aborrelli@paptac.ca.

Alternatively you may wish to register directly on-line at www.paptac.ca. Registrations will not be processed unless accompanied by payment. Cheque or money order should be made payable to Pulp & Paper Technical Association of Canada. Visa, MasterCard and American Express credit cards are accepted. Refunds will be made if we are notified of cancellation in writing before May 16, 2008.

On-site Registration Hours

The Conference Registration desk will be open on:
Sunday June 15: 18:30 – 20:30
Monday June 16: 07:30 – 11:30 and 13:00 – 16:00
Tuesday June 17: 07:30 – 11:30 and 13:00 – 16:00
Wednesday June 18: 07:30 – 11:30 and 13:00 – 16:00

Accommodations:

The conference will be held at the Renaissance Vancouver Hotel Harbourside
1133 West Hastings Street
Vancouver, British Columbia V6E3T3 Canada
Phone: 1 604 689 9211 Fax: 1 604 689 4358

Reserve early to take advantage of the special negotiated conference rates of $185 CAD/night (CITYVIEW) and $215 CAD/night (HARBOURVIEW). The PAPTAC room block will be held until May 14, 2008, after which reservations will be subject to availability. Be sure to mention PAPTAC and the hotel reservation code (PCSPCSA for a Citiview room or PCSPCSB for a Harbourview room) when making your reservation to ensure your are given the conference rate and that your reservation is logged against the PAPTAC room block.
Information

Currency
Canadian dollar. As rates change daily, check current value with your bank or through internet services.

Time Zone
Vancouver observes Pacific Daylight Time (PDT), which is 8 hours behind Greenwich Mean Time (GMT).

Weather and Dress
Daytime temperatures at this period of the year are usually between 20–25 C (70–80 F). A sweater or jacket is recommended, especially for the evening. For additional information on Vancouver, log on to www.tourismvancouver.com.

Transportation
Vancouver International Airport serves both domestic and international flights. It is a 30-minute drive to the hotel.

Driving Directions:
From Vancouver International Airport: Head South on Grant McConachie Way, continue on Arthur Laing Bridge, take ramp onto S W Marine Drive toward Granville Street/City Centre, continue on Granville St. Merge onto Seymour Street via Seymour Street/Highway 99 N ramp, head north on Seymour Street until West Hastings Street. Turn left and travel approximately 5 blocks to the Renaissance Vancouver Hotel.

From U.S. Border: I-5 becomes Hwy 99. Follow over Oak Street bridge, turn left at Broadway, right on Burrard. Left on West Hastings St.

Spouses/Companions Program
A hospitality suite for Spouses and Companions will be available daily. A complimentary continental breakfast will be supplied each day compliments of PAPTAC (spouses/companions only). Suite no. will be confirmed on site. In addition, all spouses and companions are welcome to attend all social events during the conference provided they have purchased tickets and/or appropriate badge.
Telephone Messages

It will be impossible to interrupt sessions to locate delegates for telephone calls. Messages may be left by contacting the hotel at 1-604-689-9211 and asking for the PAPTAC Conference Registration Desk.

Registration Lists

A printed pre-registration list will be with the delegate kit and at the PAPTAC Conference Registration Desk. Supplementary lists of delegates registering throughout the week will be posted in the Registration Desk Area on Tuesday and Wednesday.

Preprints

Conference preprints will be available. Additional copies and/or CD-ROMs will be sold at the registration desk. All PAPTAC publications may be ordered through its Publications Department – PAPTAC, 740 Notre-Dame W, Suite 1070, Montreal, Quebec H3C 3X6 (Canada), Tel: 514-392-6963, Fax: 514-392-0369, pubs@paptac.ca or pubs@paptac.ca, website: www.paptac.ca.

Use of tape recorders

It is recognized that a number of individuals prefer to use recording devices in place of note-taking to cover technical sessions and panel discussions. PAPTAC has no objection to the use of such devices by the delegate who is attending the conference. However, if the recording is to be utilized for publication remarks, it is mandatory that all contributing individuals have an opportunity to edit transcripts prior to publication.

** All rooms are subject to last-minute changes. Please always consult the hotel’s daily events board for up-to-date information.
Conference Welcoming Reception

RENAISSANCE VANCOUVER HOTEL HARBOURSIDE
Monday June 16 – 16:30-18:30
Admission by badge

A Conference Welcoming Reception will be hosted at the hotel for all delegates and spouses and will be held in conjunction with the conference Poster Session and Table Top Exhibition. This is an ideal opportunity to meet and discuss the poster presentations, mingle with fellow delegates, renew old acquaintances and make new friends! Take this opportunity to participate in the Control Systems Table-Top Exhibition - exhibit tables will be available on a first-come, first served basis. For more information, please contact Andrea Borrelli – 514-392-6961 or aborrelli@paptac.ca

Conference Banquet

Tuesday June 17
Vancouver Aquarium
18:30 – Reception
19:30 – Dinner
Travel by motor coach, admission by ticket

One ticket is included with each full paid registration. Extra dinner tickets may be purchased at the registration desk - $85.00

Pre-Registration

A pre-registration form is included in this brochure. The registration fees include:

- Access to the technical sessions
- Welcoming Reception
- Conference Banquet
- Preprint book and CD

PAPTAC Student members can attend the conference for $50.00 CAD which allows them to attend the technical sessions and the Welcoming Reception. However tickets to the Conference Banquet are not included and must be purchased by the interested individual. Non-members can attend for $150.00 CAD, however non-members are welcome to join PAPTAC for and attend the conference for $100.00. Please see the attached registration form for more details.
UPCOMING EVENTS

2008 Pacific Coast Branch – Technical Mini-Conference
Parksville, BC, Canada
April 18-19, 2008
INFO: Krista.cuddy@catalystpaper.com

International Pulp Bleaching Conference
June 2 - 5, 2008
Québec, QC, Canada
INFO: ghay@paptac.ca

PACWEST Conference
Jasper, AB, Canada
June 18 - 21, 2008
INFO: www.pacwestcon.n

Fundamental and Applied Pulp and Paper Modelling Symposium
Trois-Rivières, QC, Canada
August 27 - 29, 2008
INFO: Sylvain.Robert@uqtr.ca

International Symposium on Corrosion in the Pulp and paper Industry
Sweden
October 2008
INFO: gunnar.bergman@corr-institute.se

PAPTAC also offers a series of technical courses. If any of these interest you, please contact Carmie Lato – 514.392.6969 clato@paptac.ca for more detailed information.

• Theory & Practice Of Papermaking
• Kraft Pulping
• Mechanical Pulping
• Energy Efficiency
• Chip & Wood Quality
• Recycling & Deinking
• Fabrication du Papier (French)
• Chimie de la partie humide (French)
• Pulp Bleaching
• Process Integration

To become a PAPTAC member, contact Membership Services at 514-392-6955/6956 or visit our website at www.paptac.ca.

We look forward to seeing you in Vancouver!