By Michael S (Steve) Moon, P.E.
DES LLC– Birmingham, AL

Well, we’ve almost made it to the end of summer and the weather here in Alabama has been as hot & humid as ever; but not as hot as the ISA Expo 2005 Technical this upcoming October 25 – 27 at the McCormick Place in Chicago will be!

There will be eight sessions related to pulp & paper over the three days. Make sure that you listen to Mike Waller’s continuation from last years technical conference by seeing his paper “Simulation with Process Control Software for Disturbance Rejection in the Wet End of a Paper Machine: Part II” at the end of the first day. Mike will also be receiving his ISA Fellow Award in Chicago. Diana Bouchard will be presenting a tutorial entitled “Process Data Quality: What it is, How to Know When you Don’t Have it, and How to Get it Back” earlier in the morning of that day. Don’t miss Weyerhaeuser’s Bruce Honda in a panel discussion entitled “Business Justification for Control Systems Cyber Security” between Diana’s & Mike’s sessions. Michel Ruel will be presenting on both Tuesday and Thursday afternoon’s on “Performance Monitoring and Supervision- an Economic Point of View” and “Benchmarking your Process Using Simple Key Performance Indices”; and Michel is always good.

The lone pulp & paper session on Wednesday will be presented by Haro Yacoubian of Ford, Bacon & Davis entitled “Fast Track Cogeneration Project”.

Brad Carlberg has two sessions that are evolving into ISA Expo traditions; the Ethernet I/O Panel on Tuesday morning and the Web Based HMI’s Panel on Thursday morning.

The bad news for PUPID is that this month the PUPID membership has dropped to just 608 (it had been hovering around 700 for several months. Hopefully, it is just a summer thing, but try to spread around the PUPID this newsletter AND the past fifteen from the past three years as well, show your colleagues and show the all of the papers, powerpoints, and audio recordings from the past four years’ ISA Expo’s that are up on the PUPID website at http://www.isa.org/~pupid. There’s a lot of good info up there.

I hope you have already made your plans to attend the ISA 2005 Technical Conference & Exhibition in Chicago next October; but there’s still plenty of time.

See you in Chicago!
**ISA Standards**

PUPID needs a Standards & Practices Committee Chairman!

Get involved in an S&P Committee.

ISA Standards Committees Listserv at:
http://www.isa.org/shellcgi/lyris.pl?site=isa&page=topic&topic=standards+committees&text_mode=0
&lang=english

ISO Standards Technical Committee List

**Tuning Tip:**

Synchronization?

In some processes, it is essential to synchronize loops. For example:

- when products are mixed together in a reservoir or in a static mixer;
- when an additive is added at a certain percentage of flow;
- when different parts of a process have to reach a specific value at the same time;
- etc.

When synchronizing loops, the following steps should be followed:

- verify equipments, especially the transmitter, input/output, valve or variable speed drive;
- ensure the process is linear; if not, the speed will vary accordingly to the measurement or the controller output;
- identify by tests which loop is the slowest;
- tune the slowest loop accordingly to the performance criterion selected;
- tune the other loops at the same speed.

If a performance monitoring software is used, not only usual performance indices must be used, but another indice must be added to the loop health: for each loop, the settling time will be monitored to ensure the loop remains at its speed. If the speed varies, a flag will be raised to notify that the loop does not perform anymore.

This tuning tip was courtesy of Top Control
http://www.topcontrol.com

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**Calendar of Events**

Get a quick overview of the ISA PUPID events for 2005 by going to the Calendar at: http://www.isa.org/~pupid/2005_PUPID_Calendar.htm

**TAPPI Engineering, Pulping, Environmental Conference**

August 28 - 31, 2005

Philadelphia Marriott

Philadelphia, PA

**TAPPI Polymers, Laminations, Adhesives, Coatings and Extrusions Conference**

September 25 - 29

Caesars Palace

Las Vegas, NV

**ISA President's Fall Meeting**

McCORMICK PLACE, CHICAGO, IL

**OCTOBER 22 - 24, 2005**

Come meet your leaders & get involved!

**ISA 2005**

McCORMICK PLACE, CHICAGO, IL

**OCTOBER 25 - 27, 2004**

**ABTCP-PI 2005 (International Pulp and Paper Congress & Exhibition)**

Oct. 17 - 20, 2005

Transamérica Expo Center

São Paulo, Brazil

Organised by: ABTCP (Brazilian Pulp and Paper Technical Association)

Phone: (55) 11-3874-2720

fernanda@abtcp.org.br

http://www.abtcp.org.br

**AIChE Annual Meeting**

Nov. 12 - 17, 2006

San Francisco Hilton

San Francisco, CA

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**Upcoming ISA Conferences & Exhibitions**

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<thead>
<tr>
<th>Year</th>
<th>Date</th>
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<td>October 25 - 27</td>
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<td>2008</td>
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<td>2010</td>
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### ISA Pulp & Paper Industry Division 2005 Calendar

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You can see the online calendar at [http://www.isa.org/~pupid/2005_PUPID_Calendar.htm](http://www.isa.org/~pupid/2005_PUPID_Calendar.htm)
### Welcome to the 32 New ISA Pulp & Paper Industry Division Members since May 2005

#### Welcome To New PUPID Members

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Alvin Smith</td>
<td>Stephen James Eves</td>
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<td>Rick Guliuzza</td>
<td>Michael Barber</td>
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<td>David C. Riojas</td>
<td>Jignesh D. Patel</td>
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<td>Narendra B. Subramanian</td>
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<td>Eeron S. Bergstrom</td>
<td>Frederick William Block</td>
<td>Robert John Parsley</td>
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<td>Marcus J. Collins</td>
<td>Paulo Renato Brum</td>
<td>William R. Dostmann</td>
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<td>Thomas M. Kurata, PE</td>
<td>Joseph Wesley Mabire</td>
<td>Glenn G. Lett</td>
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<td>Obinna O. Mbonu</td>
<td>Bruno Heisler Alves</td>
<td>William G. Reeson</td>
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<td>Roshanlal M. Jain</td>
<td>Gabriel Arruda Dos Santos</td>
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### We’re sorry to see these 67 dropped ISA Pulp & Paper Industry Division Members since May 2005

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<tr>
<td>Frank W. Crossland</td>
<td>Jeff Downing</td>
<td>Michael H. Lynnes</td>
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<td>Wesley E. Schuck</td>
<td>Danny R. Allen</td>
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<td>Kalyan Roy</td>
<td>Agnihotri Basu</td>
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<td>Mark H. Cederwall</td>
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<td>Dr. Daniel B. Smith</td>
<td>Will J. Gorkoff</td>
<td>Terry W. Warner</td>
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<td>Chip R. Westaby</td>
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<td>Sven Syvertsen</td>
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<td>Luiz Antonio Costa De Arruda Mello</td>
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<td>Arne Svendsen</td>
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<td>Michael Anthony Baumann</td>
<td>Nicholas Janz</td>
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<td>George R. Larson</td>
<td>Stanislaus L. Ludwig</td>
<td>Jose Joaquin Perez, Sr.</td>
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<tr>
<td>David M. Simko</td>
<td>Gaurav Rathi</td>
<td>Mrs. Deepa Elamplasseril</td>
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<td>Jean Pierre Rossi</td>
<td>Antonio J. B. Almas</td>
<td>Ms. Rupali Prakash Pate</td>
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<td>Robert H. Seelaus</td>
<td>Bill A. Johnson</td>
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<td>John C. Henderson</td>
<td>Craig Longcor</td>
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<td>Santanu Chakraborty</td>
<td>Marc Champagne</td>
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<td>Vitto R. Krislasky</td>
<td>Wilfried Stein</td>
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<td>Bernard R. Lamb</td>
<td>Justin R. Frase</td>
<td>Ms. Sheetal Baban Tupe</td>
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<td>Philip S. Bartells</td>
<td>Anthony J. Ortolani</td>
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<td>Keith Roland Sagers</td>
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**Come On Back!**
Pulp & Paper Sessions at ISA Expo 2005 In Chicago October 25 -27

Industrial Networking & Communications
Tuesday, 25 October
Ethernet I/O Panel – (Pl)
Time: 10:00 a.m. - 11:30 a.m.
Panelists: Brad Carlberg - BSC Engineering

Automation & Control Strategies
Tuesday, 25 October
Process Data Quality: What it is, How to Know When you Don’t Have it, and How to Get it Back – (T)
Time: 10:00 a.m. - 11:30 a.m.
Presenter: Diana Bouchard - Varanal Data Analysis Center

Manufacturing & Control Systems Security
Tuesday, 25 October
Business Justification for Control Systems Cyber Security – (PL)
Time: 2:00 p.m. – 3:30 p.m.
Panelists:
Tom Flowers - CenterPoint Energy
Mark Heard - Eastman Chemical Co.
Ian Henderson - BP
Bruce Honda - Weyerhaeuser Co.
David Mills - Procter & Gamble Co.

Automation & Control Strategies
Tuesday, 25 October
Advanced Controls Applications – (P)
Time: 3:45 p.m. - 5:15 p.m.
Simulation with Process Control Software for Disturbance Rejection in the Wet End of a Paper Machine: Part II
Michael Waller - Miami University PSE Dept.
Integrated Process Air Compressor Control System Overcomes Unique Problem
Keyur Vora - Reliance Industries Ltd.
Narayanan Krishnan - Compressor Controls Corp.
Verification of Neurofuzzy Speed Control Tuning for a Combustion Turbogenerator
Luis Castelo-Cuevas - Electrical Research Institute
Continuous On-Line Ammonia Slip Process Monitoring in Post-Combustion NOx Control Equipped Power Generating Stations
Keith Crabbe - CEMTEK Environmental

Productivity & Asset Management
Tuesday, 25 October
Economics of Asset Management – (P)
Time: 3:45 p.m. - 5:15 p.m.
Performance Monitoring and Supervision- an Economic Point of View
Michel Ruel - Top Control Inc
The Economics of Automation, Advanced Automation and Asset Management Investments
Douglas White - Emerson Process Management

Managing in Automation
Wednesday, 26 October
Project Management – (P)
Time: 10:00 a.m. - 11:30 a.m.
Managing Automation Projects across East Asia from a Cross Cultural Perspective
Kwek Siew - EPMP Consulting Private Limited
Review Your Engineering Development Cycle and Stay Competitive
Frede Vinther, Torben Klovborg-Laustsen - NNE A/S
Control System Project Management Techniques for a Fast Track Cogeneration Project
Haro Yacoubian - Ford, Bacon & Davis

Industrial Networking & Communications
Thursday, 27 October
Web Based HMI’s - (Pl)
Time: 10:00 a.m. - 11:30 a.m.
Panelist: Brad Carlberg - BSC Engineering

Productivity & Asset Management
Thursday, 27 October
Performance Management – (P)
Time: 2:00 p.m. - 3:30 p.m.
Benchmarking your Process Using Simple Key Performance Indices
Michel Ruel - Top Control Inc
Using Key Process Indicators in Prioritizing Control Loop Maintenance Activities
Alireza Haji-Valizadeh - ControlSoft, Inc.
Opening the Black Box: Demystifying Performance Assessment Techniques
Robert Rice - Control Station, Inc.
Douglas Cooper - University of Connecticut
Congratulations on 25 years of ISA Membership!

Well, All of these people have reached a fantastic milestone … They’ve maintained their ISA membership for over twenty-five years. Wow! What an achievement!

If you know any of them, give them your personal congratulations, and, probably more importantly, ask them questions. You don’t want to waste this valuable resource at your disposal. They’ve all seen on heck of a lot in their lives, both in & out of work, and could help you with any particularly tough problem.

And remember, all of these folks are well on their way to achieving Life Membership, so stick it out!

To qualify for Life Membership the “rule of 90” applies: meaning that a member reaching at least twenty-five years of continuous membership and the age of 65 (25 + 65 = 90) can be granted a Life member status and the dues are free.
Where’s The Action? Who’s doin’ anything?

Aker Kvaerner to modernise pulp mills in Europe and Brazil

LYSAKER, Norway, Aug. 9, 2005 (Press Release) - Aker Kvaerner has been awarded contracts for the modernisation of four pulp mills: Swedish Södra Cell Värö, Mercer Rosenthal, SCA Mannheim in Germany and International Paper Mogi Guaçu in Brazil. Together these contracts are worth approximately USD 24 million.

Kvaerner Pulping AB, part of the Aker Kvaerner group, will under the new contracts provide engineering, procurement and supervision services for the German and Brazilian clients. The contract for Södra Cell Värö in Sweden also includes construction services.

"Modernising existing equipment is a cost-efficient way to improve a pulp mill. These orders demonstrate that we are successful in delivering innovative solutions that improve our customers’ products, productivity and profitability," says Per-Åke Färnstrand, President of Kvaerner Pulping.

The order for Södra Cell Värö, Sweden, comprises a modernisation of the existing brown stock washing system and includes the supply and installation of Kvaerner Pulping’s patented Compact Press. The modernisation aims to improve washing performance which will contribute to a better production yield at the mill. Start-up is scheduled for March 2006.

SCA Mannheim has ordered a new bleach plant, including medium consistency equipment and two Compact Press units. This in order to improve quality and enable further closure of water cycles improving environmental performance at the mill. The Compact Press units are a repeat order, with two units from Kvaerner Pulping previously installed in 2003. The new bleach plant will be started up in June 2006.

To improve washing efficiency, Mercer Rosenthal has ordered an upgrade of their mill’s existing brown stock washing system. The upgrade comprises a Kvaerner Pulping Compact Press and a pressure diffuser. Both will be used as post-oxygen washers and will among other things replace old wash filters, delivering environmental benefits through reductions in Chemical Oxygen Demand (COD). Start-up is scheduled for June 2006.

International Paper has ordered a modernisation of the bleach plant, including a Compact Press, at their Brazilian Mogi Guaçu mill. The modernisation will ready the plant for production of elemental chlorine-free pulp and prepare for a future capacity increase. Start-up is scheduled for November 2006.

G-P spending $160 million on boiler/turbine at Port Hudson mill

SAN FRANCISCO, Aug. 9, 2005 (paperloop.com) - Georgia-Pacific Corp. is planning to spend $160 million to replace a power boiler and steam turbine at its Port Hudson pulp and paper mill in Zachary, La., in a project designed to reduce the mill’s high energy costs.
Where’s The Action? Who’s doin’ anything? (Continued)

Smurfit-Stone to make permanent closures at three North American mills

CHICAGO, Ill., Aug. 4, 2005 (Press Release) - Smurfit-Stone Container Corporation today announced plans to permanently close production capacity at three North American containerboard mills as part of the company’s ongoing assessment and restructuring efforts.

Smurfit-Stone plans to permanently close:

- the #2 paper machine at its Fernandina Beach, Florida, linerboard mill;
- its New Richmond, Quebec, linerboard mill; and
- its Bathurst, New Brunswick, medium mill.

Smurfit-Stone’s total containerboard manufacturing capacity will be reduced by approximately 700,000 tons. The rationalization process will result in a workforce reduction of approximately 565 employees.

The company expects to take a pre-tax charge of approximately $302 million during the third quarter 2005, nearly $260 million of which is non-cash, as a result of these closings. These charges are estimates and will be finalized during the third quarter.

“These actions, while extremely difficult, are necessary to address the market realities facing Smurfit-Stone, in particular, the declining growth rate for containerboard and oversupply in the northeastern portion of North America,” said Patrick J. Moore, Smurfit-Stone chairman, president and chief executive officer. “As with any decision of this magnitude, key considerations included operating costs, long-term strategic fit, system contribution, and our ability to provide our customers with the highest quality products and services.

“This difficult decision in no way reflects on the hard work and dedication of our employees at these mills. It is our intent to work closely with government authorities, local communities and unions as we make that difficult transition,” added Moore.

One of the major long-term issues confronting Smurfit-Stone’s packaging operations is the slowing demand for packaging in North America, as manufacturing is being shifted overseas. “We are in a mature industry that has struggled to achieve adequate returns,” Moore said. “We have been unable to pass along inflationary costs, such as energy and fiber, to our customers. In addition, the manufacturing exodus overseas has had a strong impact on containerboard demand throughout North America.”

Smurfit-Stone’s #2 paper machine at Fernandina Beach has been idle since April 2001. The New Richmond and Bathurst mills have an annual production capacity of 235,000 tons of linerboard and 243,000 of corrugating medium respectively. Both mills have been recently idled due to market conditions. The closures will result in the permanent lay-offs of approximately 295 employees in New Richmond and 270 employees in Bathurst.

“The packaging industry is undergoing swift changes, and Smurfit-Stone is in the process of assessing its entire asset base to determine how to stay ahead of the market,” Moore said. “While extremely difficult and painful, the decisions we have announced today are the first steps toward better positioning the company for future growth and success.”
Where's The Action? Who’s doin’ anything? (Continued)

Procex unveils decision-support tool for pulp mills

BRUNSWICK EAST, Australia, Aug. 2, 2005 (Press Release) - PRO-PLAN from Procex is designed to coordinate pulp mills and recoveries for smoother operation with increased output. It is a real-time expert system based decision-support tool for shift coordinators to assist with pulp mill and recovery coordination. The software considers paper machine fiber demands, current storage levels and any constraints imposed in the pulping lines and recovery circuits before recommending the optimal production rates for each process area.

The recommended production rates will satisfy the demand for pulp, and also regulate pulp and liquor storages to their optimal levels. PRO-PLAN calculates the optimal level for each storage based on the likelihood of shutdowns upstream or downstream, says Procex. Maintaining levels at their optimum will increase the buffer between areas and reduce the domino effect caused by an unplanned shutdown in any area, it adds.

When constraints prevent balanced operation, storage volumes are used to overcome any short-term imbalance. The algorithms used ensure that pulp production is maximized to the level permitted by any constraints. PRO-PLAN is especially beneficial where there are multiple pulp lines vying for limited cooking liquor and spent liquor capacity, says the supplier.

Other factors considered in PRO-PLAN include evaporator throughput degradation, scheduling of evaporator boil-outs and optimization of washer dilution factors.

The recommended plan is simulated in PRO-PLAN to show the predicted improvement over current operation, and allows "what ifs" to be investigated. Payback is achievable within a few months, says Procex.

PRO-PLAN is based on Gensym's G2 real-time expert system. It is designed to be easily configured graphically, and can be supported by mill personnel or by the supplier.

Johnson Controls to deliver heat recovery system for Minas Basin Pulp and Power

MILWAUKEE, Aug. 1, 2005 (Press Release) - Johnson Controls Inc. has been awarded a multi-million dollar contract to install heat recovery and delivery technologies at the Minas Basin Pulp and Power Co. Ltd. mill in Hantsport, Nova Scotia. The contract utilizes an innovative FLU-ACE® heat recovery technology from Thermal Energy International Inc. in Ottawa, Ontario.

Thermal Energy's FLU-ACE® technology recovers waste heat from dryers, industrial ovens, boilers, incinerators, cogeneration and process heaters, sometimes providing a complete smokestack replacement, while removing harmful pollutants, and returning "free" clean hot water for industrial processes. FLU-ACE® also provides an attractive return on investment by significantly reducing fuel consumption and generating certifiable emissions credits.

The solution at Minas Basin is expected to come on line by April of 2006 and to pay for itself within two years. Johnson Controls has guaranteed delivery of a predetermined volume of heat under a Performance Contracting arrangement.

"Johnson Controls has worked very hard in recent years to bring innovative solutions to the pulp and paper industry and we are pleased to be moving forward on this innovative project," said Alex A. Molinaroli, vice president and general manager-Americas for the Controls Group of Johnson Controls.

"Minas Basin is proud to be the first pulp and paper operation in North America to implement this innovative technology," said C. Scott Travers, president and chief operating officer of Minas Basin Pulp and Power, and chairman of the Pulp and Paper Technical Association of Canada (PAPTAC).

"We were the first mill in Nova Scotia and one of the first in Canada to totally comply with all Federal pulp and paper effluent regulations and one of the first to use 100% recycled fiber in production. Now we are adding another first in reducing energy utilization and further reducing emissions and greenhouse gases," said Travers.

Editor’s Note: These press releases were provided by Paperloop at http://www.paperloop.com/
**Letters to the Editor**

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Send your comments on this newsletter to the ISA PUPID Technical Discussion Forum & “get something started”!

You can reach the site at http://216.27.72.194/shellcgi/lyris.pl?enter=pupid&text_mode=0&lang=english or by going to the PUPID or the main ISA websites and looking for the “ISA Technical Divisions”

**Links to Related Websites**

**ISA Pulp & Paper Website**
http://www.isa.org/~pupid/

**ISA Pulp & Paper Technical Discussion Forum**
http://www.isa.org/scripts/lyris.pl?enter=pupid&text_mode=&lang=english

**ISA Technical Conference Session Schedule**
http://www.isa.org/Template.cfm?Section=Conferences_and_Exhibitions&template=taggedpage/conferencesbydate.cfm&icid=61

**Pulp & Paper Research Institute of Canada**
http://www.paprican.ca/

**TAPPI**
http://www.tappi.org/

**PIMA**
http://www.pimaweb.com/

**American Forest and Paper Association**
http://www.afandpa.org/

**National Society of Professional Engineers**
http://www.nspe.org/

**Swedish Royal Institute of Technology**
http://www.pmt.kth.se
http://www.hut.fi/English/

**Helsinki University of Technology**
http://www.hut.fi/English/

**Technical Association of the Australian and New Zealand Pulp & Paper Industry (APPITA)**

**Australian Pulp & Paper Institute**

**ISO Standards Technical Committee List**

**ISA Standards Committees Listserv**
http://www.isa.org/shellcgi/lyris.pl?site=isa&page=topic&topic=standards+committees&text_mode=0&lang=english

**Quickies**

**ISA Pulp & Paper Technical Discussion Forum**

Anybody (not necessarily an ISA or PUPID member) can subscribe to the PUPID Pulp & Paper Technical Discussion Forum. To subscribe, go to the PUPID homepage at http://www.isa.org/~pupid/, select "Pulp & Paper Technical Discussion Forum" in the pick box, click "Go", and enter your email address and a password.

**ISA Email Address for All Members**

Any ISA member can register for a free email address and online mailbox. If you set it up, your ISA email address will be yourname@member.ISA.org. To register, go to http://www.isa.org/membership/benies/, and follow the registration instructions.

**ISA PUPID Calendar**

Get a quick overview of ISA PUPID events for 2002 by going to the Calendar at:
http://www.isa.org/~pupid/2002_PUPID_Calendar.htm
**Canada Corner**

Nothing from anyone there this time!

**Central & South American Corner**

Nothing from anyone there this time!

**Far East Corner**

Nothing from anyone there this time!

**From the Land of the Midnight Sun**

Nothing from anyone there this time!
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