Director’s Message

By Brad S. Carlberg, P.E.
BSC Engineering– Daphne, AL

Well, it’s just over a month since the 2005 Presidents Fall Meeting and the ISA 2005 Fall Conference & Exhibition in Chicago. I even got to spend an hour or so seeing the exhibits after the pulp & paper technical sessions got done, what a break.

I recorded six sessions related to pulp & paper over the three days. Make sure that you listen to Mike Waller’s continuation from last year’s 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 also received his ISA Fellow Award in Chicago. 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 was good as always. The lone pulp & paper session on Wednesday was a presentation by Haro Yacoubian of Ford, Bacon & Davis entitled “Fast Track Cogeneration Project”. Rounding out the recorded sessions were the Ethernet I/O Panel on Tuesday morning and the Web Based HMI’s Panel on Thursday morning.

I’d like to thank all the speakers and session developers (you know who you are – and if you don’t know who they are you can see AND hear their presentations by going to the PUPID websites). You can see the nine pulp & paper presentations AND listen to what the speakers said by going to the website. The eight papers that were published in the conference proceedings are also there for you to read.

The other good news for PUPID is that the PUPID Scholarship Endowment has now been set up to perpetuate the yearly awards to students. You can go to the website to download the application. Spread the word to those deserving students!

We are in the middle of the planning for the Spring 2006 Symposium for which we will again partner with TAPPI; this time with the TAPPI Process Control, Electrical & Information, Papermakers, & Coating divisions at the Marriott Marquis in Atlanta next April 24 - 27.

Well, I’ll sign off now until next year; keep watching the PUPID website for upcoming attractions!
ISA Standards
PUPID needs a Standards & Practices Committee Chairman!
Get involved in an S&P committee.

ISA Standards Committees Listserver 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
TechnicalCommitteeList/

Tuning Tip:
When a variable speed drive is used as a final control element, it is essential to verify its configuration (see October 2005 Top News). Configuring properly the parameters in the variable speed drive is important, however, tuning the loop will require some precaution. The response could be non linear, for example at low speed the process gain is higher; hence, at low speed, the flow increases more when the speed is increased. Also, the response for a small change and a large change is different (for a large change acceleration/deceleration limit is reached). Finally, the response when increasing speed and when decreasing speed could be different.

To analyze this loop, it is essential to test:

- at low and high flow,
- when increasing and decreasing controller output,
- with small and large changes.

If we use PIDTuner from ExperTune, these tests can be done in automatic or manual mode; also, tuning parameters ensuring stability in all cases will be determined by the program. If linearization or special programming is necessary, right choices will be done using PIDTuner special tools.

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

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’s 2006 Papermakers and Coating and Graphic Arts Conferences
April 24–27, 2006
Marriott Marquis
Atlanta, Georgia

ISA 2006 President’s Fall Meeting
Reliant Center, Houston, TX
October 7–9, 2006
Come meet your leaders & get involved!

ISA Expo 2006
Reliant Center, Houston, TX
October 10–12, 2006

Upcoming ISA Conferences & Exhibitions

<table>
<thead>
<tr>
<th>Year</th>
<th>Event Date</th>
<th>Location</th>
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<tr>
<td>2006</td>
<td>October 9–12</td>
<td>Houston, Texas</td>
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<td>2007</td>
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<td>Chicago, Illinois</td>
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<td>2008</td>
<td>October 20–23</td>
<td>Houston, Texas</td>
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<td>2009</td>
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<td>Chicago, Illinois</td>
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<td>2010</td>
<td>October 11–14</td>
<td>New Orleans, Louisiana</td>
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### ISA Pulp & Paper Industry Division 2005 Calendar

You can see the online calendar at [http://www.isa.org/~pupid/2005_PUPID_Calender.htm](http://www.isa.org/~pupid/2005_PUPID_Calender.htm)
WELCOME TO THE 38 NEW ISA PULP & PAPER INDUSTRY DIVISION MEMBERS SINCE AUGUST 2005
WELCOME TO NEW PUPID MEMBERS

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<td>Carl L. Morton</td>
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<td>Richard Karl Semmler</td>
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<td>Dan W. Evans</td>
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<td>Ms. Jean Willian Moraes</td>
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<td>Rodrigo Dos Santos Ventura, Sr.</td>
<td>John Myers</td>
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<td>Barry F. Smith</td>
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<td>David A. Nicholson</td>
<td>Knuval Dilipsing Lodha</td>
<td>Francis Alain</td>
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<td>Bruno Vachon</td>
<td>Ms. Kalpana Deri Elumalai</td>
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<td>Ms. Narchonai Ashok Kumar</td>
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<td>Ralph E. Cornelius</td>
<td>Leonard Filipkowski</td>
<td>Ms. Louise Jones</td>
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<td>Peter J. Luciano</td>
<td>Eduardo Alves Costa</td>
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WE’RE SORRY TO SEE THESE 40 DROPPED ISA PULP & PAPER INDUSTRY DIVISION MEMBERS SINCE AUGUST 2005

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<td>Glenn Rose</td>
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<td>David G. Hobart</td>
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<td>R.Wayne Via</td>
<td>Robert A. Spring, PE</td>
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<td>Steven Hesch</td>
<td>Harold B. Simpson</td>
<td>David J. Lopez</td>
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<td>Matthew C. Mayer, CCST</td>
<td>Jerome M. Budai</td>
<td>Kevin D. Starr</td>
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<td>Oakley A. Smith, Jr.</td>
<td>James Vincent Scales</td>
<td>David M. Obermiller</td>
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<td>Ajit Bapat</td>
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COME ON BACK!
## Session E261
### Tuesday Session 1
(10:00 am - 11:30 am)

**Session Number:** ISA05-S316  
**Theme:** Industrial Networking & Communications  
**Session Title:** Ethernet I/O (Panel)(Co-sponsored by PUPID, COMPUTEC, G&C, and TXD)  
**Session Chair:** Brad Carlberg, BSC Engineering  
**Session Developer:** Brad Carlberg, BSC Engineering  
**Panelists:**  
- John Ditter – Wago Corporation  
- Scott Saunders - Moore Industries  
- Mike Konrad – Phoenix Contact  
- Bob Shreffles - Opto22  
- Don Lupo – Acromag Inc.

## Session E352
### Tuesday Session 2
(2:00 pm - 3:30 pm)

**Session Number:** ISA05-S201  
**Theme:** Manufacturing & Control Systems Security  
**Session Title:** Business Justification for Control Systems Security - Panel  
**Session Chair:** David Mills, Proctor & Gamble  
**Panelists:**  
- Thomas Flowers – Centerpoint Energy  
- Bruce Honda - Weyerhaeuser  
- Ian Henderson – BP  
- Mark Heard – Eastman Chemical  
- David Mills – Proctor & Gamble

## Session E262
### Tuesday Session 3
(3:45 pm - 5:15 pm)

**Session Number:** ISA05-S402  
**Theme:** Automation & Control Strategies  
**Session Title:** Advanced Control Strategies  
**Session Chair:** Joseph Provenzano – Aaron Associates  
**Presentation(s):**  
- **PAPER** Simulation With Process Control Software for Disturbance Rejection In The Wet End of a Paper Machine: Part 2  
  - Michael Waller, Miami University PSE Dept.

## Session E264
### Wednesday Session 1
(10:00 am - 11:30 am)

**Session Number:** ISA05-S103  
**Theme:** Managing In Automation  
**Session Title:** Project Management  
**Session Chair:** Kwek Siew, EPMP Consulting Private Ltd  
**Session Developer:** Kwek Siew, EPMP Consulting Private Ltd  
**Presentation(s):**  
- **PAPER** Control System Project Management Techniques for a Fast Track Cogeneration Project  
  - Haro Yacoubian – Ford, Bacon, & Davis

## Session Wednesday 3
### Wednesday Session 3
(3:45 am - 5:15 am)

**Session Number:** ISA05-S107  
**Theme:** Economics of Asset Management  
**Session Title:** Economics of Asset Management  
**Developer:** Wallace Stommes, StoneL  
**Presentation(s):**  
- **PAPER** Performance Monitoring and Supervision – An Economic Point of View  
  - Michel Ruel, TOP Control

## Session E261
### Thursday Session 1
(10:00 am - 11:30 am)

**Session Number:** ISA05-S317  
**Theme:** Industrial Networking & Communications  
**Session Title:** Web-Based HMI's Panel  
**Session Chair:** Brad S. Carberg, P.E. – BSC Engineering  
**Session Developer:** Brad Carberg, BSC Engineering  
**Panelists:**  
- David Smith, OSI Software Inc  
- Fabio Terezinho - Indusoft  
- Dave Wibberley – Adroit Technologies
Where's The Action? Who's doin' anything?

Koch Industries to acquire Georgia-Pacific in $48 per share cash transaction

ATLANTA, Ga. and WICHITA, Kan., Nov. 13, 2005 (Press Release) - Georgia-Pacific Corp. and Koch Industries, Inc., today announced they have reached a definitive agreement for Koch Forest Products, Inc., a wholly owned Koch subsidiary, to make a $48 per share cash tender offer for all shares of Georgia-Pacific. The transaction has been unanimously approved by the boards of directors of Georgia-Pacific and Koch.

The transaction has an equity value of $13.2 billion and a total enterprise value of $21 billion, including all Georgia-Pacific debt. The price to Georgia-Pacific shareholders represents a premium of 39 percent based on the closing price of Georgia-Pacific common stock on Nov. 11.

Koch Forest Products expects to launch a cash tender offer for all outstanding shares of Georgia-Pacific common stock no later than Nov. 18, followed by a second step cash-out merger at the offer price. The closing of the tender offer is expected to be completed promptly, subject to customary closing conditions, including antitrust clearances in various countries.

The transaction is not conditioned on financing. Debt financing has been secured by Koch through Citigroup.

Koch has confirmed that Georgia-Pacific will be operated as a privately held, wholly owned subsidiary of Koch Industries. Georgia-Pacific will continue to do business worldwide under the Georgia-Pacific name and continue to operate its businesses from its Atlanta headquarters as an independently managed company.

Included in the transaction are all assets of Georgia-Pacific, including its North America and international consumer products segments, as well as its building products, packaging, and paper and bleached board segments.

"This transaction is the most dramatic step yet in Georgia-Pacific's history and its transformation. We are pleased it offers very significant, incremental value to our shareholders, as is warranted by our company's tremendous assets and talented employees," said A.D. "Pete" Correll, Georgia-Pacific chairman and chief executive officer. "Koch's acquisition of Georgia-Pacific will enable us to move into the future in an exciting fashion and continue achieving our financial and operating goals with committed new ownership that is exceptionally strong financially, has a long history of outstanding business success and a dedication to operational excellence."

"Georgia-Pacific is an outstanding company with highly talented employees, a heritage of leadership in the marketplace and strong branded products," said Charles G. Koch, chairman and chief executive officer of Koch Industries, Inc. "By joining our group of privately held companies, Georgia-Pacific will be able to maintain a long-term focus on growth and a commitment to delivering value for all of its constituents. As a wholly owned Koch subsidiary, it will benefit from our historical practice of reinvesting up to 90 percent of earnings in our businesses. We have extensive experience with cyclical, highly competitive businesses and the ability to commit appropriate resources to enhance the company's assets and pursue a growth agenda."

Koch acquired Georgia-Pacific's non-integrated market and fluff pulp operations at New Augusta, Miss., and Brunswick, Ga., in May 2004. Since the purchase, Koch has invested in these businesses, which have been operating as Koch Cellulose. Upon completion of this transaction, these operations will be reintegrated with Georgia-Pacific businesses.

"Through the experience we gained in our recent transaction with Koch, we are very familiar with Koch's outstanding strategic asset management approach and capabilities," Correll said. "It is gratifying that the same highly effective leadership team we dealt with earlier took a focused interest in all of Georgia-Pacific and in our continuing success story as an industry leader. We are confident that this combination will be a winner, bringing superior strengths, shared core values and readiness to compete in all of our markets."

Added Koch's Joe W. Moeller, president and chief operating officer, "We view this major acquisition not only as a key strategic investment for Koch but as a platform for future growth. We believe this transaction represents a unique opportunity in which each of our enterprises and employees will be able to prosper together."

Goldman, Sachs & Co. acted as exclusive financial advisor to Georgia-Pacific; the company's legal counsel are Shearman & Sterling LLP and King & Spalding LLP. Koch's financial advisor is Citigroup Corporate and Investment Banking; its transaction counsel is Latham & Watkins LLP.
VCP announces plans to build $1.3 billion pulp mill in Rio Grande do Sul, Brazil

PORTO ALEGRE, Brazil, Nov. 3, 2005 (Press Release) - Votorantim Celulose e Papel's CEO, José Luciano Penido, announced today, during a reception in the Palácio Piratini, the seat of Rio Grande do Sul state government, in the presence of Governor Germano Rigotto and other authorities, the beginning of the social and environmental licensing process for the implementation of a bleached eucalyptus pulp factory to be built in Rio Grande do Sul. If implemented, this unit should occupy an area of approximately 450 to 500 hectares, located in the region of Rio Grande-Pelotas-Arroio Grande. Overall investment in the factory and in the forest base is estimated at US$1.3 billion, and the expected annual volume is one million tonnes of pulp.

According to Penido, the Company is applying the best business practices in this project. "This study is the natural result of the relationship we developed with all stakeholders in the south of the state over the last 18 months. With this announcement, we restate our interest in expanding investments to promote the development of the southern region. Now, we all-the Company, the Government and the Community-share the responsibility of consolidating this commitment."

The idea of the enterprise is being praised as a concrete option for the region's economic development, where VCP has already invested R$310 million and generated 3,400 direct and indirect jobs with forestry planting and infrastructure. During the installation of the factory, between 2009 and 2011, eight thousand jobs are expected to be created. Another two thousand direct and indirect jobs will be offered in the new plant. Production will be targeted to the European, Asian and American markets. Shipments shall be carried out through the Rio Grande Port.

The project indicates that the environmental licensing study will have its conclusion expected for 2007. The basic engineering and the technical proposals will be developed from 2008 to 2009, when the project shall be approved by the Company's Board of Directors.

The environment

According to VCP's project, a strict control of the productive process, based on the adoption of clean technologies, will reduce and even avoid the factory's environmental impact. The management of these impacts is based on the minimum generation of waste and its reuse and recycling.

Examples may be found in VCP's pulp bleaching process, which does not use elemental chlorine and is carried out based on a process known as ECF (Elemental Chlorine-free). In addition, the pulp pre-bleaching stage uses oxygen and is in line with the best technologies available in the world market.

Feasibility study data

Basic data

| Project: | Bleached eucalyptus pulp plant |
| Location: | To be defined |
| Total estimated investment: | US$1.3 billion |
| Production: | Pulp, one million tonnes/year |
| Target markets: | Europe, Asia and USA |
| Port of shipment: | Rio Grande Port |
| Total plant area: | From 400 to 500 hectares |
| Number of jobs: | 2,000 direct and indirect and 8,000 during implementation |
| Investments already carried out in RS: | R$310 million (forest investments) |

Estimated schedule

2006 - 2007 EIA/RIMA study and Social and Environmental licensing
2008 - 2009 Basic engineering and projects
2009 Project approval by the Company's Board
2009 - 2011 Installation of the factory, if project is approved
2011 Beginning of operations
Where’s The Action? Who’s doin’ anything? (Continued)

VCP figures in Rio Grande do Sul

Total figures up to the end of this year:

• Investments: R$310 million
• Planted area: 28.5 thousand hectares (on land belonging to VCP or third parties)
• Jobs created: 3,500 (1,000 direct and 2,400 indirect)

Up to 2010:

• Purchase of over 73 thousand hectares (total of 140 thousand hectares).
• Total target: 100 thousand hectares planted (70 thousand hectares on land belonging to VCP and 30 thousand hectares on land belonging to third parties).
• 70 thousand hectares conserved on VCP land.

Integrated license

VCP is the first company in the forest sector in Rio Grande do Sul to receive the Integrated Operational License (LOI) from the Fundação Estadual de Proteção Ambiental Henrique Luís Roessler (FEPAM), a state-level environmental protection agency. This document, granted in July of this year, authorizes the installation and operational start-up of forestry activities on 78 farms belonging to VCP at the far south of the state. The area of the enterprise, which is aimed at forming a forest base, amounts to approximately 67 thousand hectares of land, distributed over 14 municipalities and five river basins.

Editor’s Note: These press releases were provided by Paperloop at http://www.paperloop.com/
LETTERS TO THE EDITOR

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**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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