He has developed and implemented advanced process control systems for brown stock washing, chlorine dioxide generators and lime kilns, and is currently working on a causticizing control system incorporating advanced sensor technology. Bruce is a member of PAPTAC and TAPPI, and is a registered Professional Engineer in BC and Ontario.

Laurier Morissette, M.Sc.A.,ing.
President – TEXO Consulting & Controls Inc.

- 2003: Founder of TEXO Consulting & Controls Inc.
- 1994-2003: BTG Americas Inc., Montreal, QC - Technical Director – Americas: Engineering, Sales Support, Economic Evaluation, Deployment of Control Solutions
- 1989-1994: BTG Americas Inc., Atlanta GA - Product Manager, Product Marketing Manager, International Products Marketing Manager, Technical Director
- 1987-1989: Hymac Ltd, Laval, QC – Research Engineer
- 1992: Master in Pulp & Paper, Université du Québec, Trois-Rivières QC
- 1987: Baccalaureate in Chemical Engineering, Université Laval, Québec QC

Kevin Taylor is an Industrial Chemist with over 25 years experience in the pulp & paper, oil & gas and mining industries. Areas of expertise include non-process element chemistry, recaust chemistry, purchased lime quality control, scaling, and specialized analytical chemistry. Kevin has 2 US patents and over 40 publications. He holds BSc (UVIC) and MSc (UOttawa) degrees in chemistry, is a visiting scientist at the UVIC Chemistry Department, vice-president of the Association of the Chemical Professionals of BC, and owner of Taylor Industrial Research Inc.

HOW TO REGISTER

Registration Forms can be downloaded from the PACWEST website: **www.pacwestcon.net**

Please forward completed form together with your payment to:

PACWEST CONFERENCE
938 Belvedere Drive
North Vancouver, BC V7R 2C1

ACCOMMODATION

Please complete the Accommodation Section on the PACWEST registration form

CANCELLATION POLICY

Each course is based on a minimum attendance. In the event that this minimum is not reached, PACWEST and the Course Leader reserve the right to cancel, postpone or amend the course accordingly. In the event that PACWEST or the Course Leader should cancel the course, all registration fees would be refunded. PACWEST and the Course Leader's liability is limited solely to the refund of the registration fee.

ADDITIONAL INFORMATION

For further information on the Course, please contact:
Vic Uloth at viculoth@telus.net

For further information on registration and accommodation please contact:
Mary Barnes at 604-988-9829 barnesmm@shaw.ca

Troubleshooting and Optimization of Recaust and Lime Kiln Operations

Wednesday, June 8, 2011

Short Course #2
A one-day Short Course
in association with the
PACWEST Conference
presented by
Vic Uloth

Delta Sun Peaks Resort
Kamloops, BC

JUNE 8-11 2011

COURSE DESCRIPTION

This one-day course is designed to provide participants with a broad understanding of the fundamentals of recausticization and the causes of and solutions for a number of typical operating problems. Participants will learn about each of the major unit operations in recaust with a focus on the effects of variables, such as operating temperatures, lime charge, time, and lime quality, on causticizing efficiency, mud settling and filtration. The effect of lime kiln operating variables on energy use and lime quality will be summarized, together with the state of the art in control systems for both the lime kiln and recaust operations. Trouble-shooting and problem-solving will be highlighted for common recaust area upsets.

This course has been designed for new and experienced pulp mill and supplier personnel, and anyone who would benefit from a deeper understanding of recaust, lime kiln and Kraft chemical recovery operations. The course leader is Vic Uloth, an independent consultant and recognized industry expert in the field of Kraft chemical recovery operations.

WHO SHOULD ATTEND

- Recaust and lime kiln production staff, operators, and engineers
- Research, technical, and service personnel from pulp and paper companies, chemical suppliers, and equipment suppliers

COURSE #2
REGISTRATION FEE: **$200.00**

A G E N D A

8:30-8:45	Welcome and Introductions
8:45-9:30	Overview of Recausticization
9:30-10:00	Effect of Deadload on Mill Operations
10:00-10:15	Causticizing Reactions and Equilibria
10:15-10:30	Break
10:30-11:00	Variables Influencing Causticizing Efficiency, Mud Settling and Filtration
11:00-11:30	White Liquor Pressure Filter Plugging and Cleaning
11:30-11:45	Optimizing Mud Filter Operations
11:45-12:30	Effect of Non-Process Elements on Recaust Operations
12:30-13:15	Lunch (provided)
13:15-13:45	Variability in Makeup Lime Quality
13:45-14:30	A Model-Based Recaust Control Strategy
14:30-14:45	Lime Kiln Fundamentals-Variables Influencing Kiln Performance and Energy Use
14:45-15:00	Lime Kiln Scrubber Scaling
15:00-15:15	Break
15:15-16:00	Lime Kiln Ring Formation and Removal
16:00-16:40	Model Predictive Control of the Kiln
16:40-17:00	Additional Questions and Discussion

COURSE INSTRUCTORS

Course Leader: Vic Uloth is a Chemical Engineer with over 35 years experience in optimizing and troubleshooting pulping chemical recovery system operations. Vic has a B.A.Sc. from the University of Waterloo and an M.A.Sc. in Pollution Control Engineering from UBC. Vic worked for 33 years with FPInnovations – Paprican on research projects covering every unit operation in the Kraft chemical recovery system. He spent most of his working life on pulp mill sites in Prince George, Quesnel, and numerous other locations, operating pilot plants and doing tests around various unit operations. He has presented and published over 60 technical papers on topics including brown stock washing, tall oil soap recovery, tall oil production, evaporator scaling, recovery boiler optimization, Kraft lignin recovery, polysulphide liquor production in recaust, white liquor oxidation, and power boiler optimization. He recently retired from FPInnovations and is now working as a pulping chemical recovery consultant with several North American mills. Vic is a member of PAPTAC and is a registered Professional Engineer in BC.

Bruce Allison has BEng and MEng degrees from McMaster University, and a PhD from UBC, all in Chemical Engineering. He has worked as a Research Engineer with FPInnovations (formerly Paprican) for 25 years, first in the Process Control Group and now in Chemical Technology. He has also had short stints with Entech, Texo and Matrikon, and spent 1-½ years working in the Department of Signals, Sensors & Systems at the Royal Institute of Technology, Stockholm, Sweden. His interests are in modeling, control and optimization of pulp and paper processes.

All