

PUMP SYSTEM OPTIMIZATION WORKSHOP

DID YOU KNOW THAT THE AVERAGE PUMP SYSTEM EFFICIENCY IS 40% OR LESS?

The typical medium-sized plant spends over \$1.4 Million a year on energy to run their pumping systems. Better system design and optimized pumping systems may result in savings that will average \$350K per year on energy alone. With the system running more efficiently, maintenance and operating costs will go down and the mean time between repairs will improve.

WHAT WILL PARTICIPANTS LEARN?

Developed by Pump Systems Matter, this workshop will help you learn valuable new skills, develop an action plan, improve system efficiency and reduce energy and operating costs.

Workshop topics include:

- Why Efficient Pumping Systems are Important
- System Optimization and Improvement Opportunities
- Basic Pump System Interaction
- Screening Pumping Systems
- Analysis Tools for Pumping Systems
- Improving the Performance of Pumping Systems
- Life-Cycle Cost Analysis
- Developing an Action Plan
- Resources and Follow-up Strategy

PRESENTER

Martin Bima, P.Eng., CEM, Industrial Systems Engineer

Martin has over 15 years of experience in industrial systems in the pulp and paper, oil and gas, municipal, mining, food production, manufacturing, transportation and other industries.

His current position with Manitoba Hydro has him working with the industrial and large commercial customers across the province. He assesses existing and new pumping systems, develops business cases for improvement, and educates customers on improving their pumping systems, reducing maintenance, and increasing profitability. A substantial portion of his time is dedicated to creating and presenting innovative teaching tools to convey the message of pumping system efficiency.

"It was a very useful training. Especially the 1/2 day hands-on clinic."

"Will discuss with clients and highlight savings potential."

Jorgen Rohweder
Principal
Solution In Focus Consult

AGENDA

Full Day interactive workshop:

Registration & Breakfast
8:00 a.m. – 8:30 a.m.

Morning Session
8:30 a.m. – Noon

Lunch
Noon – 1:00 p.m.

Afternoon Session
1:00 p.m. – 5:00 p.m.

DATE AND LOCATION

November 5, 2009

Northwood Learning Center
5353 Northwood Pulp Mill Road,
Prince George, B.C.

HOTEL AND ACCOMMODATION

A special rate of \$99, plus applicable taxes, has been negotiated with Ramada Hotel. Please quote Group Code CGBCGG when booking.

Ramada Hotel
444 George Street
Prince George, BC V2L 1R6
Phone. 1 800 830 8833
ramadaprincegeorge.com

PUMP SYSTEM OPTIMIZATION

To register please complete the following and email, fax or mail to BC Hydro.

* Information flagged by an asterisk is required to process your registration for the event. All other requested information is optional and voluntary.

* Name _____ * Position/Title _____

* Organization _____

* Address _____

* City _____ * Province _____ * Postal Code _____

* Business Phone _____ * Email _____ * Fax _____

Do you have special dietary needs? _____

How did you find out about this workshop? Email Association Co-worker Other _____

REGISTRATION FEE

BC Hydro customers: **\$200 + GST = \$210**

Early Birth Special (register before October 16, 2009): **\$150 + GST**

Workshop fee includes a complementary textbook: **Optimizing Pumping Systems: A Guide to Improved Energy Efficiency Reliability & Profitability**, breakfast, lunch and all workshop materials.

See bchydro.com/events for a list of all PSP Industrial workshops.

REGISTRATION POLICY

- Registration deadline is three business days prior to workshop.
- Registration fee in full payment is due two weeks prior to workshop start date, or upon registration.
- Cancellation up to three days prior to workshop start date—full refund less \$50 processing fee.
- Cancellation less than three days prior to workshop—no refund.

PAYMENT OPTIONS

Cheque or money order enclosed (payable to BC Hydro) Send me an invoice Credit Card VISA MasterCard

* Card Number _____ * Expiry Date (MM/YY) _____

* Name as shown on card _____ * 3 Digit CVC security code (on back of card by signature) _____

* Signature _____ * Date _____

(For security reasons please do not email registration form with credit card information—instead phone in, or fax, credit card info).

REGISTRATION OPTIONS

Fax 604 453 9196

Email jayne.de'ath@bchydro.com

Telephone 604 453 6484

Web bchydro.com/events

Mail BC Hydro Industrial Workshops Suite 1300–4555 Kingsway Burnaby BC, V5H 4T8

FURTHER INFORMATION AND TO PHONE IN YOUR CREDIT CARD DETAILS, CONTACT US.

Jayne De'Ath at 604 453 6484 or by email at jayne.de'ath@bchydro.com



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