

Exergy: Does Quality of Energy Matter in Achieving Net-Zero?

Exergy: Does Quality of Energy Matter in Achieving Net-Zero? Seminar

Date: Thursday, June 11, 2009

Time: Registration and Hot Breakfast 8:30 am - 9:00 am

Seminar 9:00 am - 12:00 pm

Instructors: Albert Bicol, P.Eng., LEED® AP, *Cobalt Engineering*
Vladimir Mikler, MSc, P.Eng., LEED® AP, *Cobalt Engineering*

Credit: 3 Professional Development Hours (PDHs)

APEGBC is an AIBC/CES registered provider offering an AIBC-Accredited activity for 3 Core Learning Units.

Cost: APEGBC Members (before May 28, 2009): \$209.00 + GST = \$219.45

APEGBC Members (after May 28, 2009) and Non-Members: \$249.00 + GST = \$261.45

City: Vancouver, BC—Venue TBD

Registration: Please visit our website: http://www.apeg.bc.ca/prodev/events/exergy_achieving_netzero_jun09.html or call 604-412-4899 to register by phone.

Join Albert and Vladimir for this engaging session as they explore the benefits of the net-zero design approach. Learn how the net-zero approach proactively addresses building performance, rather than relying on complex, reactive engineering systems. Combining high-energy efficiency building envelopes with integrated renewable energy options, Net-Zero buildings produce the same amount of energy as they consume in a year. Drawing on several project examples, Albert and Vladimir will address topics including human comfort, passive design, microclimate and energy modeling.

This engaging seminar will provide a new perspective on building energy use. The speakers will explain why shifting to reliance on lower energy *quality* — exergy — is just as important as reducing the energy *quantity* used in sustainable building design and possibly achieving Net-Zero. Join us to learn the fundamentals of low-exergy building design and explore a realistic path toward adopting it in your projects.

Albert Bicol, P.Eng., LEED® AP, *Cobalt Engineering*

Albert champions the use of sustainable solutions in his projects. As a LEED Accredited Professional, Albert performed reviews for the USGBC on projects applying for LEED certification and now heads Cobalt's team for the review of project applications for the Canada Green Building Council. He was recently on the City of Vancouver Urban Design Panel — only the second Mechanical Engineer to serve in this capacity. Albert has been invited to deliver over 150 presentations and has been a keynote speaker on sustainable building design and the true "Net Zero" approach in Canada, the US, and Asia. He has also volunteered to educate elementary school children on climate change. Albert was named as one of Building, Design and Construction's 2007 'Top 40 Under 40'.

Vladimir Mikler, MSc, P.Eng., LEED® AP, *Cobalt Engineering*

Vladimir has a passion for designing energy-efficient and environmentally responsive buildings. With over 20 years of experience, Vladimir is well-versed in all aspects of sustainable building design. His broad experience extends from fundamental and applied university research, through practical design and project management in both consulting engineering and design-build environments, to "hands-on" construction management and field system installations. Vladimir is also a recognized leader in Geo-Exchange technology. Vladimir is the Engineer-of-Record for Gleneagles Community Centre in West Vancouver, BC - the first "constant temperature building" in North America. He has also recently completed the development of the City of Vancouver's Passive Design Best Practices Guide. Currently, he teaches in an adjunct professor role at the University of British Columbia and is a member of the City of Vancouver Urban Design Panel.

Send form to:

Professional
Development
APEGBC
200-4010 Regent
St.
Burnaby, BC
V5C 6N2
Tel: 604-412-4899
Fax: 604-430-8085



An APEGBC Professional
Development Seminar