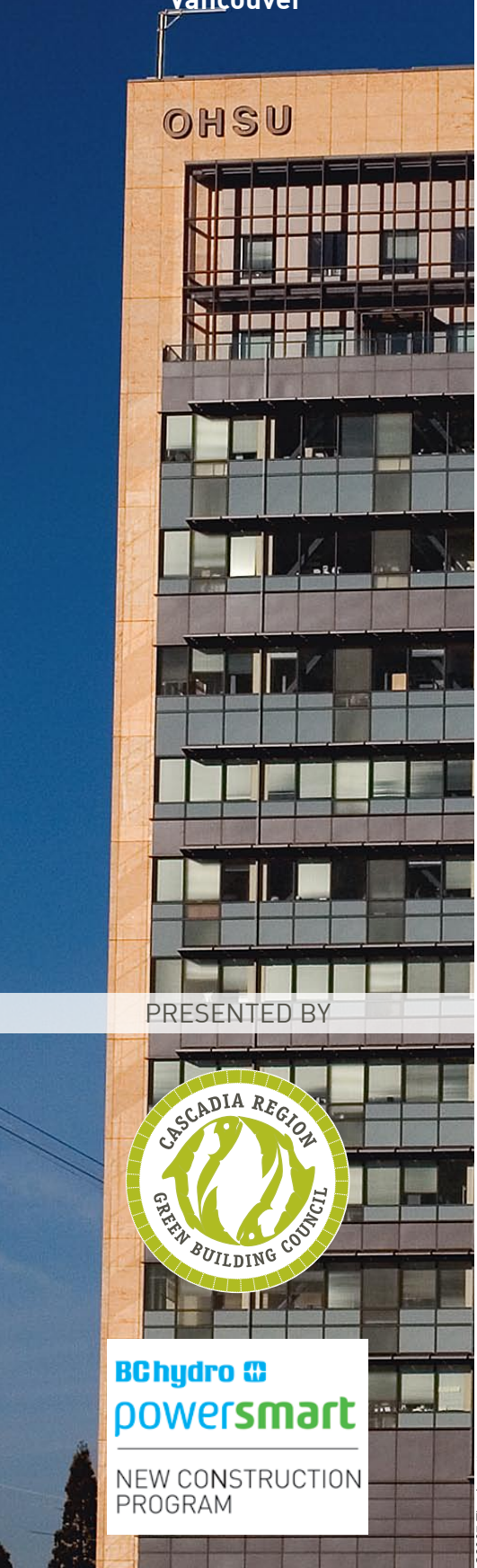
01.28.10

Strategy Room 320
Morris J Wosk Centre for Dialogue
580 West Hastings Street, Vancouver



PRESENTED BY

CASCADIA REGION GREEN BUILDING COUNCIL

BC hydro powersmart
NEW CONSTRUCTION PROGRAM

DESIGN & BUILD NEW ENERGY-EFFICIENT HOSPITAL AND HEALTHCARE FACILITIES IN BC

The BC Hydro Power Smart New Construction Program and Cascadia Region Green Building Council are pleased to offer this new full-day workshop for owners, developers, architects, engineers and designers involved in new healthcare and hospital facilities.

MORNING SESSION: EXECUTIVE TRAINING FOR DEVELOPERS, OWNERS, ARCHITECTS, DESIGNERS, AND OTHERS. 8:15 AM TO 12:15 PM.

Luis Damy, *P. Eng., Manager, High Performance Building Program, BC Hydro*

HOW BC HYDRO CAN HELP YOUR HIGH EFFICIENCY HOSPITAL

Mr. Damy has over 12 years experience in process re-engineering, project management and product development/implementation at IBM and TELUS. He will briefly discuss how BC Hydro can help your high efficiency hospital project.

Jessica Woolliams, *BC Director, Cascadia Region GBC*

LIVING BUILDING FINANCIAL STUDY + LESSONS LEARNED FROM HARVARD

Ms. Woolliams will briefly present the Hospital energy section of Cascadia's Living Building Financial Study and speak about her work at Harvard Medical Campus, where she and her staff's salary came from the energy savings that their work generated.

Dennis Wilde, *Principal, Gerding Edlen Development*

LESSONS LEARNED FROM THE OHSU CENTER FOR HEALTH AND HEALING

Mr. Wilde will present a case study of the Oregon Health & Science University Center, built in 2006, which exceeds Oregon Energy Code and ASHRAE energy requirements by 61%. The environmentally-innovative engineering design was achieved with less than a conventional budget for mechanical and electrical system. Gerding Edlen has embarked on more LEED projects than any other development company in the US, and in 2008 adopted the Living Building Challenge as its goal for future projects. Mr. Wilde is a nationally respected green building expert and leads the Renewable Energy & Infrastructure division of GEDI.

Ray Pradinuk, *Principal, Leader Healthcare Research and Innovation, Stantec Consulting*

NEW DESIGN PRACTICES IN HOSPITAL AND HEALTH SECTOR

Mr. Pradinuk has been responsible for the design of a variety of award-winning projects, including the 2001 Award of Excellence from Modern Healthcare and the AIA for Surrey Memorial Children's Health Centre. He is a member of the Green Guide for Healthcare Steering Committee. This section will be an overview of architectural, lighting and mechanical energy efficient design measures for hospitals, drawing on new research from hospitals in Europe, North America and BC. It will include a new proposed design at one local BC hospital, European case studies, and current BC ventilation load regulations.

Chris Corps, *BSc MRICS, President, Asset Strategics Ltd.*

PUTTING GREEN BUILDINGS & THE TRIPLE BOTTOM LINE INTO CAPITAL ASSETS

Mr. Corps is a Chartered Surveyor and principal authors of Cascadia's groundbreaking study: "High Performance Green Building: What's it Worth?" Mr. Corps, former chairman of the Canadian Royal Institution of Chartered Surveyors (RICS), has led international industry initiatives to better interpret and report the value of sustainability in business cases and balance sheets. He has taken leading roles in mental health and seniors care program capital direction, as well as P3 business cases and capital planning.

Joel Loveland, M. Arch, RA; and Heather Burpee, M. Arch, *Integrated Design Lab + Dept. of Architecture, University of Washington*

WHAT IS THE 2030 CHALLENGE: WHAT CAN WE LEARN FROM EUROPEAN HOSPITALS

Mr. Loveland and Ms. Burpee will present on research on both North American and European energy efficiency hospital design. They have been working with leading mechanical engineers to establish goals to radically reduce hospital energy consumption. Radically reducing loads in hospitals means a complete rethinking of the systems. Recent research in the Pacific Northwest highlights where major loads can be targeted and Scandinavian countries serve as built examples.

LUNCH AND NETWORKING OPPORTUNITIES FOLLOW THE MORNING SESSION

01.28.10

Strategy Room 320
Morris J Wosk Centre for Dialogue
580 West Hastings Street, Vancouver

PRESENTED BY

CASCADIA REGION GREEN BUILDING COUNCIL

BC hydro powersmart
NEW CONSTRUCTION PROGRAM

AFTERNOON SESSION: TECHNICAL TRAINING FOR ARCHITECTS AND ENGINEERS.

1:00 PM TO 4:30 PM.

Caesar Ruest, *Autodesk's BIM Solutions Executive*

PREDICT PERFORMANCE WITH BUILDING INFORMATION MODELING

During his past 10 years at Autodesk, Mr. Ruest has influenced a number of strategic projects to adopt Building Information Modeling (BIM) beyond a traditional CAD process. In this presentation he will discuss the successful application of BIM with energy analysis, design predictability, as well as the importance for Building Managers and consulting Principles to mandate BIM in their offices. This session is suitable for Owners, Developers and Design Principles.

Boriana Arguirova, *P. Eng., Project Manager, Stantec*

HIGH EFFICIENCY LIGHTING DESIGN FOR HOSPITALS

Ms. Arguirova has over 15 years of experience in electrical design and project management, more than half of which is dedicated to hospitals. Boriana is an advisory member of Health Care Facilities Committee of IESNA participating in updating lighting standards of IESNA; is an active member of Lux Pacifica; and was in the CIE research group for "Effect of lighting on the human health." She will share her experience of designing energy efficient hospitals and health care facilities with 'healing' and staff friendly lighting. She will discuss complying with hospital lighting requirements and give real lighting engineering design tips.

Paul Marmion, *P. Eng., Managing Principal, Buildings Group of Stantec Consulting*

HIGH EFFICIENCY MECHANICAL COMPONENTS

In 1975, Mr. Marmion joined DW Thomson Consultants (DWT) as a Design Engineer, becoming a shareholder and eventually Vice President and Chief Engineer. Following the acquisition of DWT by Stantec, he assumed the position of Managing Principal responsible for the Vancouver Buildings Engineering group. Mr. Marmion was involved in the writing of the Canadian National Energy Code, he was a director of CaGBC and presently he is working on the new ASHRAE Advanced IAQ guide as well as doing fundamental research into displacement and natural ventilation in healthcare buildings. Mr. Marmion's talk will focus on complying with hospital heating, ventilating and cooling requirements and tips on designing with energy efficiency in mind. Real engineering design tips from actual hospital projects will be discussed.

PANEL DISCUSSION AND NETWORKING OPPORTUNITIES FOLLOW THE AFTERNOON SESSION

Architectural Institute of BC: The conference has been approved by the AIBC; 7.5 Core Learning Units.

Registration

Please call Jessica Woolliams at 604-909-9559 - registrations will be taken over the phone.

	Earlybird (Until COB 12.23.09)	Regular
Cascadia Members (or BC Hydro Partner):	$200	$215
Non-Members:	$215	$230
EGB or Student (full-time):	$180	$200

Please contact Jessica Woolliams if you are interested in group rates or half-day rates at 604-909-9559 or jessica@cascadiagbc.org. Half day rates are available for those whose schedule does not permit the full day event, and start at $130 for early bird Cascadia Members or BC Hydro Partners and do not include breakfast or lunch.

For more information, registration and sponsorship information, please visit http://www.cascadiagbc.org/events/2010/january/high-efficiency-hospitals-workshop-bc/.

"Reduce the capital costs for the building's mechanical systems by 25 percent but make it outperform the Oregon energy code by 60 percent. We habitually build buildings full of mechanical equipment that's seldom used. Why not get creative?"

Dennis Wilde, Developer
Challenging the architects designing the Oregon Health and Science University's Center for Health and Healing

"We have at most ten years -not ten years to decide upon action, but ten years to alter fundamentally the trajectory of global greenhouse emissions."

James Hansen, Director, NASA Goddard Institute for Space Studies