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GREEN DEVELOPMENT SUSTAINABLE BUILDINGS AND INFRASTRUCTURE

Co-Chaired by

James K. M. Cheng
James KM Cheng Architects Inc.

Donald Lidstone, Q.C.
Lidstone & Company

February 2nd & 3rd, 2012 • Vancouver Convention Centre - West Building • Vancouver, BC



Provider No.: EP90

CO-CHAIRS



James K. M. Cheng, Principal, James KM Cheng Architects Inc., Vancouver, BC. Mr. Cheng's practice is very diverse, encompassing large urban design and city planning projects to very small interior design commissions; the constant throughout being quality of design and execution. His work has been published and exhibited in Canada, the US, Japan, Germany, London and Hong Kong. Mr. Cheng began his architectural career with Seattle Architect Fred Bassetti and later with Mithun Partners while studying at the University of Washington. He apprenticed with Canadian Architect Arthur Erickson for 3 years prior to attending Harvard University for his Master of Architecture in 1977. There he studied under American Architect Richard Meier. Mr. Cheng has won

over 45 major design awards, including the prestigious Governor General's Medal from the Royal Architecture of Canada. In recognition of his design achievements, he was made a Fellow of the Royal Architectural Institute in 1994.



Donald Lidstone, Q.C., Lidstone & Company, Vancouver BC. Mr. Lidstone has practised generally in the area of municipal law since 1980. His municipal law focus is in the areas of constitutional, administrative, and environmental law, particularly in respect of governance, land use/sustainable development, regulatory approvals, and legislative drafting. He is co-founder of the Sierra Legal Defence Fund/EcoJustice and Smart Growth BC. Invited to speak regularly at conferences, symposia and universities, he has chaired the Sustainable Region Initiative (Governance and Finance), Liquid Waste Expert Review Panel, Fire Services Review Panel, Whistler Waste Blue Ribbon Panel, and the Municipal Law Section of the British Columbia Branch of the Canadian Bar Association. Mr. Lidstone has published numerous papers and manuals and consulted on the development of the *British Columbia Community Charter* and other municipal statutes. He was designated Queen's Counsel in 2008.

GREEN DEVELOPMENT SUSTAINABLE BUILDINGS AND INFRASTRUCTURE

Are you up to date on the current state of green infrastructure and how anticipated developments will impact your municipality or company?

Green development is essential to both accommodate population growth and achieve a community vision for sustainability and liveability. Municipalities are at the forefront of the green infrastructure movement. To create greener communities, changes will need to be made to existing land use regulations, design guidelines, construction standards, and more.

This conference will provide you with expert advice on the current state of green infrastructure and the anticipated impact of future developments.

ISSUES TO BE ADDRESSED:

- The changing role and responsibility of the architectural profession
- Impact of new energy retrofit upgrade requirements in many municipalities
- Key issues in recommissioning/retrofitting and reuse of existing structures
- Impact of *BC Building Code* amendments
- The potential impact of recent US litigation on green infrastructure in Canada
- Current impact of green infrastructure on the construction industry
- Essential issues in land use planning and zoning
- Strengths, challenges and outcomes of municipalities making a carbon neutral commitment
- How to leverage green development for maximum community and developer benefit
- LEED, BOMA, and other building standard codes – understanding the pros and cons
- Impact of Vancouver's decision to require all new buildings to be LEED Gold
- Successes and challenges in developing community energy solutions
- Essential water issues: Green roofs, sediment control, wastewater treatment, water conservation, land use planning for water, water governance, and more.

WHO SHOULD ATTEND:

- Local government officials, officers, councillors and planners
- Municipal directors
- Insurance professionals and risk managers
- Architects, engineers and other design consultants
- Lawyers concentrating on municipal, insurance, environmental, construction or civil law
- Professionals involved in land use planning
- Construction and development company representatives

KEYNOTE SPEAKERS



John Robinson, Executive Director, UBC Sustainability Initiative. Dr. Robinson is responsible for leading the integration of academic and operational sustainability on the University of British Columbia's Vancouver campus. He is also a professor with UBC's Institute for Resources, Environment & Sustainability, and Department of Geography. Dr. Robinson's own research focuses on the intersection of climate change mitigation, adaptation and sustainability; the use of visualization, modeling, and citizen engagement to explore sustainable futures; sustainable buildings and urban design; creating partnerships for sustainability with the private, public, non-governmental and research sectors; and the intersection of sustainability, social and technological change, behaviour change, and community engagement processes. The Centre for Interactive Research on Sustainability (CIRS) is a major project. A Trudeau Foundation Fellow from 2008 to 2010, John was also a Lead Author in the last three reports of the Intergovernmental Panel on Climate Change, which won the Nobel Peace Prize in 2007. In 2010, Dr. Robinson was awarded BC Hydro's Larry Bell Award for contributions to energy efficiency and conservation in British Columbia.



Brent Toderian, Director of Planning, City of Vancouver, Vancouver, BC. Mr. Toderian was appointed Director of Planning in 2006, succeeding celebrated Co-Directors Larry Beasley and Dr. Ann McAfee. His broad mandate involves development planning and architectural design approval, including many projects related to the 2010 Winter Olympics, as well as city-wide policy and visioning, central area planning, and community planning. His work includes many initiatives relating to Vancouver's goal of becoming the greenest city in the world by 2020. Brent came to Vancouver from the City of Calgary, where as Manager of Centre City Planning + Design, he oversaw visioning, planning, development and design in Calgary's Downtown, Midtown and Beltline communities. Brent also created and was leading Calgary's award-winning *Centre City Plan*, which took a creative and unusually holistic approach to the future success of Centre City. A passionate advocate for creative city building, urban design and architecture, Brent speaks and writes globally on the subjects, has taught and lectured at numerous universities, and is a co-founder and President of the *Council for Canadian Urbanism*.

FACULTY



Daniel Arsenosi, Associate, Municipal Law Group, McCarthy Tetrault, Toronto, ON. Mr. Arsenosi maintains a general planning and development law practice, which includes providing advice and advocacy in matters pertaining to municipal approvals and municipal law. Mr. Arsenosi received his BA in Political Science (First Class Honours) from McGill University and his LL.B. from Osgoode Hall Law School. Mr. Arsenosi is a member of the Municipal Section of the Ontario Bar Association, the Canadian Bar Association, and the Law Society of Upper Canada.



Ted Battiston, Corporate and Community Energy Manager, Whistler Centre for Sustainability and Resort Municipality of Whistler, Whistler, BC. Mr. Battiston works in a role that directs his attention toward internal municipal policies and operational practices as well as toward the importance of integrating energy and greenhouse gas emissions planning into broader community policies. Through this role, Mr. Battiston has gained six years of experience developing carbon accounting and management practices and compiling detailed energy and emissions inventories for both public and private sector organizations. He has collaborated extensively with the provincial government, BC Hydro, the Union of BC Municipalities, as well as the Federation of Canadian Municipalities on local government responses to the challenges of climate change generally, and to greenhouse gas inventories in particular.



Trent Berry, Partner, Compass Resource Management, Vancouver, BC. Mr. Berry is a management consultant based in Vancouver. With a background in science, economics and management, his expertise spans energy, water and wastewater. His practice includes technology evaluations, feasibility and market studies, policy development, ownership and financing, and project implementation. In recent years, Mr. Berry has led several dozen feasibility studies for district energy systems in Canada and the US Pacific Northwest, including the system serving Vancouver's Olympic Village. He continues to advise clients on business models, rate design and partnerships for district energy systems. Mr. Berry is a Fellow with the Portland Sustainability Institute where he has worked to advance EcoDistricts, with particular emphasis on sustainable neighbourhood infrastructure and district energy.



Deborah Curran, Hakai Professor in Environmental Law and Sustainability, University of Victoria Faculty of Law, Victoria, BC. Ms. Curran teaches courses in the areas of local government, real estate and environmental law. She is the author of the *Green Bylaws Toolkit* and the *Smart Bylaws Guide* website, and has advised local governments across the province on environmental matters. Ms. Curran has been involved in the ongoing modernization of the Water Act as a member of the Technical Advisory Committee to the process.



David Dove, Principal, Perkins+Will, Vancouver, BC. With over 18 years experience in the architecture and interior design fields, Mr. Dove has worked across Canada, the US, China and the Middle East. While he currently leads the office's Corporate, Commercial and Civic market sectors, Mr. Dove has worked on a much wider range of projects from interior design through to large scale urban planning and infrastructure projects. His work consistently pursues the highest standards of architectural and sustainable achievement, and many of his projects have received awards and recognition for both design and achievement in environmental performance including many LEED certified projects and a 2004 AIA/COTE Top Ten Green Projects award for the White Rock Operations Building. Mr. Dove provides firm oversight, is actively involved in business development, is a member of the firm's internal Design Review Panel and directs several of the offices larger and more complex projects. He has been a member of the Surrey Design Panel, has acted as a design mentor for the RAIC Syllabus program and is a mentor with the AIBC.



Mark Holland, Vice President of Development, New Monaco Enterprise Corporation, Peachland, BC. Mr. Holland is a LEEDTM-accredited planner who holds professional degrees in both Landscape Architecture, and Community and Regional Planning. His work has focused on integrating sustainability principles into both the mainstream development industry and local government plans and policies. Mr. Holland's career started in the City of Vancouver as a city planner and subsequently as the founder and first Manager of its Sustainability Office. He then helped co-found two consulting companies, the Holland Barrs Planning Group, and then HB Lanarc Consultants- both of whom have been recognized nationally as leaders in innovative planning, design and sustainability. After a decade of consulting, he recently joined New Monaco Enterprise Corporation to lead the planning of one of the most innovative projects in the Okanagan Valley. Mr. Holland has won several project awards and has developed many concepts and frameworks relating to sustainable communities including the 8 Pillars of a Sustainable Community and the acclaimed Resilient Cities Manifesto in 2009. He has also served on numerous boards and is the co-author of the widely referenced book *Agricultural Urbanism*. In 2010, he was awarded "Planner of the Year", by his peers in the Planning Institute of BC.



Lorina Keery, Environmental Manager, Building Owners and Managers Association, Vancouver, BC. As the Environmental Manager for the Building Owners and Managers Association, Ms. Keery manages and administers the BOMA BEST program locally in BC. She also provides assistance to BOMA members with energy management by helping them plan for and implement energy conservation projects and initiatives in their buildings. Both these initiatives work towards the common objective of greening commercial buildings and standardizing industry best practices. Prior to working for BOMA, Ms. Keery developed and delivered environmental education programs for various

organizations. She graduated from Simon Fraser University with a Bachelor of Environmental Science, specializing in Biology and Resource and Environmental Management. She is currently studying at BCIT to complete the Sustainable Energy Management program.



David Johnson, President, Revelstoke Community Energy Corporation. Dr. Johnson holds a PhD in Chemistry from SFU and worked in post-secondary education for 33 years, including nine years as Academic Dean. In the non-profit sector, Dr. Johnson has served in various capacities, including President of the Canadian Railroad Historical Association. Since "retiring" to Revelstoke, Dr. Johnson and his wife own and operate the Minto Manor Bed & Breakfast in one of Revelstoke's finest heritage homes. He is president of the Revelstoke Heritage Railway Society, which operates the Revelstoke Railway Museum. He has served on the board of the Revelstoke Community Energy Corporation since shortly after his arrival, and assumed the presidency in June, 2006.



Karen Martin, Partner, Fraser Milner Casgrain LLP, Vancouver BC. Ms. Martin practices in the areas of construction & infrastructure, P3, and litigation/dispute resolution. Since the late 1980s, she has acted for contractors, design consultants and owners on construction and infrastructure projects. She provides strategic advice on the drafting and administration of tenders, RFPs and construction related contracts to help clients avoid disputes and when issues arise, to help resolve them quickly. When disputes arise, she acts as counsel in the negotiation, mediation, arbitration and litigation of all types of construction claims. Ms. Martin is rated in the *Canadian Legal LEXPERT Directory* as "Repeatedly Recommended" in the area of Construction Law and is recognized in *Best Lawyers in Canada* as one of Canada's leading lawyers in construction law.



James M. Miller, Director of Strategic Business Investments, VanCity Group, Vancouver, BC. Mr. Miller is a board director of Dockside Green LP and the Director of Strategic Business Investments and Transformation at VanCity, Canada's largest credit union. At VanCity, Mr. Miller is accountable for corporate development in addition to having accountability for the operations of Dockside Green, which is being developed by VanCity. Located in Victoria, Dockside is one of the world's largest master-planned green communities and is located on fifteen acres of former harbor front industrial land. Dockside has a planned total of 1.3 million square feet of mixed residential, office, retail and commercial space. Mr. Miller has a Master of Business Administration from the Queen's School of Business and is a graduate of Simon Fraser University.



Thomas Mueller, President & CEO, Canada Green Building Council, Ottawa, ON. Mr. Mueller is a Founding Director of the Canada Green Building Council (CaGBC). He is a member of the Board of Directors of the World Green Building Council and the International Green Building Certification Institute. He is a frequent contributor to government and industry consultations, conferences and other events on green buildings and sustainable community development. Mr. Mueller chaired the LEED BC Steering Committee which was responsible for the first adaptation of the LEED building rating system outside the US. He also chaired the Vancouver Chapter of the CaGBC from 2002-2005 and is a past board member of the Cascadia Green Building Council. For his green building work, Mr. Mueller received the 2000 and 2002 Innovation Award from the Architectural Institute of BC and the 2005 FCM - CH2MHill Sustainable Community Award. In 2008, he became a Fellow of the Cascadia Green Building Council. He has been a LEED accredited professional since 2003.



Dave Ramslie, Sustainable Development Program Manager, City of Vancouver, Vancouver, BC. Mr. Ramslie is responsible for developing and delivering programs and policy supporting the development of green infrastructure and green buildings. His work has won national awards. His current projects include developing a strategic plan to achieve city-wide carbon neutral buildings by 2020, implementing a comprehensive building retrofit program and creating a green jobs training program. Mr. Ramslie oversaw the development of Vancouver's Green Homes Program in 2009, recognized as the greenest building code in North America. He serves on the Board of Directors for the Cascadia Regional Green Buildings Council and the Canada Green Building Council's Intergovernmental Affairs Committee. Mr. Ramslie was made a Fellow of the Kinship Conservation Institute in 2003 in recognition for his research into green building markets in residential development.



Gil Yaron, Senior Business & Policy Advisor, Light House Sustainable Building Centre, Vancouver, BC. Mr. Yaron is a lawyer with more than 15 years of experience in policy and research. As Senior Business and Policy Advisor with Light House, he recently authored a national study on building operators for Eco Canada and advised the City of Vancouver on the development of amendments to its Building Bylaw to require energy efficiency upgrades for existing buildings. Mr. Yaron oversees Light House's Market Insights programming providing market intelligence to the building, construction and real estate sectors on green building policy and practice.



Elizabeth H. Yip, Partner, McCarthy Tetrault, Vancouver, BC. Practising in the Real Property and Planning Group and the Municipal Group at McCarthy Tetrault, Ms. Yip's practice is focused on commercial real estate. She has been extensively involved in development, acquisitions and sales, real estate financing and commercial leasing. Her experience includes acting for the master developer of the UniverCity Community at Simon Fraser University and the development of numerous mixed-use projects and master communities. She has spoken on sustainable developments extensively. Ms. Yip was called to the British Columbia Bar in 1992 and the Ontario Bar in 1989.

GREEN DEVELOPMENT

SUSTAINABLE BUILDINGS AND INFRASTRUCTURE

THE AGENDA — FEBRUARY 2ND, 2012

9:00 Welcome and Introduction to Day One and Building Tour*

James K. M. Cheng
James KM Cheng
Architects Inc.

Donald Lidstone, Q.C.
Lidstone & Company

9:10 Keynote Address: A Living Lab of Urban Sustainability

John Robinson
University of British Columbia

9:50 Visioning: Architecture for Future Generations

David Dove
Perkins + Will

- The changing role and responsibility of the architectural profession
- Who is our client? Who do we answer to?
- The new consultant team – who are our partners?
- A glimpse into the future: Current green projects

10:30 Questions and Discussion

10:40 Refreshment Adjournment

10:55 Recommissioning / Re-Using / Retrofitting Existing Structures

Gil Yaron
Light House Sustainable Building Centre

- New energy retrofit upgrade requirements in various local municipalities
- Experiences of different jurisdictions with recommissioning/retrofitting and reuse
- The labour challenges facing the operation of high performance buildings

11:35 Questions and Discussion

11:45 Impact of the Green Movement on Construction – Risks and Tips for Success

Karen Martin
Fraser Milner Casgrain LLP

- Liability risks and tips for minimizing risk
- Recent US litigation – what does it mean for Canada?
- Impact on contract drafting and administration
- P3s and green construction

12:25 Questions and Discussion

12:35 Luncheon Adjournment

2:00 Land Use Planning and Zoning Issues

Donald Lidstone, Q.C.
Lidstone & Company

- Pre-zoning for eco-density and amenities
- Ad hoc zoning for leverage
- District energy systems – pros and cons
- Innovations in zoning, subdivision, development permit and other zoning development approvals
- Vertical cities
- Urban trees and green space

2:45 Questions and Discussion

2:55 Refreshment Adjournment

3:10 Carbon Pricing as a Green Building Tool – The Shift to Carbon Neutral Municipal Operations

Ted Battiston
Whistler Centre for Sustainability

- The changing landscape of carbon management in BC municipalities
- The role of offsets in carbon neutrality commitments
- Strengths, challenges and outcomes of making a carbon neutral commitment

3:50 Questions and Discussion

4:00 Green Economic Development

Mark Holland
New Monaco Enterprise Corporation

- How to leverage green development for maximum community and developer benefit
- Perspectives on the choice of going green – risk, advantage and differentiation
- A strategic framework for encouraging change – carrots, sticks and relationships
- Green cities: The new normal

4:40 Questions and Discussion

4:50 Chairs' Closing Comments

5:00 Building Tour* and Conference Concludes for Day One

***Building Tour: The award-winning Vancouver Convention Centre is a green-designed, state-of-the-art facility. Join us at 8:45 am and 5:00 pm for a complimentary tour of this green building.**

GREEN DEVELOPMENT

SUSTAINABLE BUILDINGS AND INFRASTRUCTURE

THE AGENDA — FEBRUARY 3RD, 2012

9:00 Welcome and Introduction to Day Two and Building Tour*

James K. M. Cheng
James KM Cheng
Architects Inc.

Donald Lidstone, Q.C.
Lidstone & Company

9:10 LEED, BOMA & Other Recent Building Standard Codes: Key Issues

Thomas Mueller
BC Canada Green
Building Council

Lorina Keery
Building Owners and
Managers Association

- LEED as a tool for sustainable planning and development - the pros and cons
- Articulating the purpose and effect of LEED rating
- Understanding the differences between the certifications: Which one is really the best? Why?
- Life Cycle Analysis as a methodology for assessing buildings: What is LCA and why it needs to be on your radar
- Impact of LCA for working overseas and what it means for municipalities
- Are the green building certifications achieving what they set out to do?

10:10 Questions and Discussion

10:20 Refreshment Adjournment

10:35 Vancouver's Decision to Require New Buildings to be LEED Gold

David Ramslie
City of Vancouver

- Why LEED? Potential ramifications of this decision?
- How is the burden on certification agencies being addressed?
- Operational ramifications
- Overcoming the "on the ground issues" with documentation, flow, etc.
- Policy issues of concern
- Will other municipalities follow?
- What happens when buildings don't comply?

11:15 Questions and Discussion

11:25 Developing Community Energy Solutions

Trent Berry
Compass Resource
Management

David Johnson
Revelstoke Community
Energy Corporation

- Vancouver's Olympic Village
- The Revelstoke District Energy Experience
- Insight gained from the case studies
- After implementation: successes and challenges

12:10 Questions and Discussion

12:20 Luncheon Adjournment

1:35 Keynote Address: Building Sustainable Communities

Brent Toderian
City of Vancouver

2:05 Green Roofs and Other Water Issues

Elizabeth H. Yip
McCarthy Tetrault LLP

James M. Miller
VanCity Group

- Victoria-Dockside Green
- Green roofs
- Sediment control
- Wastewater treatment

2:45 Questions and Discussion

2:55 Water Conservation and Governance

Deborah Curran
Deborah Curran & Company

- The landscape of water conservation in BC – low impact development and water conservation bylaws
- Land use planning for water
- Pricing
- Water governance
- *Water Act* modernization – accommodating ecosystem flows and aboriginal water rights

3:35 Questions and Discussion

3:45 Refreshment Adjournment

4:00 Toronto's New Green Roof Bylaw

Daniel Arsenosi
McCarthy Tetrault LLP

- Mandatory requirements vs. targets
- Too focused on "green roofs"?
- Modified standards for industrial buildings
- Ability to pay your way out

4:40 Questions and Discussion

4:50 Chairs' Closing Comments

5:00 Building Tour* and Conference Concludes

INFORMATION

Four Ways to Register:

1. Telephone us: 604-730-2500 or toll free 877-730-2555
2. Fax us: 604-730-5085 or toll free 866-730-5085
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4. Register at www.pbli.com/901

Registration: The registration fee covers your attendance at the conference, written materials, a light breakfast, and refreshments throughout the day.

- General:** \$995.00 plus HST of \$119.40 totalling **\$1,114.40**
- One Day:** Register for one day only for \$650.00 plus GST of \$78.00 totalling **\$728.00.**

Payment: You may pay by VISA, MasterCard or cheque. Cheques should be made payable to the Pacific Business & Law Institute. Registration fees must be paid prior to the conference.

When and Where: Check-in begins at 8:30 a.m. The conference starts at 9:00 a.m. The Vancouver Convention Centre - West Building is located at 1055 Canada Place in Vancouver, BC.

Materials: The faculty will prepare papers and/or other materials explaining many of the points raised during this conference. Please contact us at registrations@pbli.com if you are unable to attend the conference and wish to purchase a set of materials.

Course Accreditation: This two-day course has been approved by the Architectural Institute of BC, the Planning Institute of BC and the Law Societies of BC and Upper Canada for continuing professional development credit. A Certificate of Attendance will be issued at the conference.

- AIBC Members can earn up to 8.25 core Learning Units and 4.0 non-core Learning Units.
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- Members of the Law Societies of BC and Upper Canada can earn up to 10.5 hours of professional development credits.

Your Privacy: We will keep all information that you provide to us in strict confidence, other than to prepare a delegate list containing your name, title, firm and city for our faculty and the conference delegates. We do not share our mailing lists with any non-affiliated organization.

Cancellations: Full refunds will be given for cancellations if notice is received in writing five full business days prior to the conference (January 22nd, 2012). After that time we are unable to refund registration fees. Substitutions will be permitted. We reserve the right to cancel, change or revise the date, faculty, content or venue of this event.

Registration Form

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GREEN DEVELOPMENT SUSTAINABLE BUILDINGS AND INFRASTRUCTURE

February 2nd & 3rd, 2012
Vancouver Convention Centre, Vancouver, BC

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