METRO VANCOUVER is honoured to be hosting the 2011 International Regions Benchmarking Consortium Conference, “Building Future Cities Today”, a seminal event that will allow us to share information and experiences with urban regions of similar size and a common interest in sustainability.

Just as the role of local governments is expanding in scope and influence, so are the challenges, and opportunities that role presents.

Whether drawn by opportunity or driven by need, more and more people are living in cities around the world. And as cities seek to accommodate ever-growing populations, the challenges to sustainability also grow.

The conference themes for 2011 – water, waste and energy – will provide conference participants many opportunities to compare best practices, and help IRBC member regions maintain their competitive edge in ever-changing global markets.

International Regions Benchmarking Consortium is a network of sophisticated city-centered metropolitan regions that find it mutually beneficial to compare and learn from each other through economic and social data statistics and in-depth research into specific issues of common interest. Microsoft and Boeing each provided substantial funding to launch the Consortium.

PURPOSE

Worldwide competition is focused neither on countries nor on individual cities, but on large metropolitan regions that function as individual economic units. The globalization of the world’s economy requires regions and their leadership to understand how they are performing compared to similar areas worldwide.

The goal of the Consortium is twofold:

1. to develop a shared set of economic and social indicators for each participating region that show evidence of best practices in certain areas;
2. to build a learning community that shares these best practices in a way that makes participating regions more competitive in the global economy.

This allows self-evaluation of economy, society, environment, infrastructure, and other relevant urban issues using other regions around the world as a benchmark. Ultimately, the primary concept is that comparing ourselves will allow us to better reflect on our own circumstances.
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<td>Conference Attendees List</td>
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<td>About Metro Vancouver</td>
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<tr>
<td>Time</td>
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</table>
| 8:00 am - 9:00 am | Continental Breakfast/Registration  
  *Wosk Centre for Dialogue – ICBC Concourse*                                      |
| 9:00 am - 9:15 am | Welcoming Remarks                                                                         |
| 9:15 am - 10:00 am | **OPENING KEYNOTE ADDRESS**                                                              |
| 10:00 am - 10:15 am | Break                                                                                     |
| 10:15 am - 12:00 pm | **MAYORS’ PANEL** – Strategic Planning and Governance for Future Cities Today              |
| 12:00 pm - 1:30 pm | Luncheon and **KEYNOTE CONVERSATION**                                                     |
| 1:30 pm - 3:00 pm | **ENERGY – PANEL DISCUSSION**                                                            |
| 3:00 pm - 3:10 pm | **OVERVIEW** of City of North Vancouver  
  Lonsdale Energy Corporation                                                      |
<p>| 3:10 pm          | Depart for Lonsdale Energy Corp. - walk to seabus                                            |
| 3:45 pm - 4:45 pm | <strong>TOUR</strong> of Lonsdale Energy Corporation                                                   |
| 5:00 pm          | Bus departs for Grouse Mountain and Cleveland Dam                                          |
| 6:00 pm - 9:00 pm | Dinner and <strong>KEYNOTE ADDRESS</strong>                                                           |
| 9:30 pm          | Bus departs for Delta Vancouver Suites Hotel                                               |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 8:00 am - 9:00 am | Continental Breakfast  
*Wosk Centre for Dialogue – ICBC Concourse* |
| 9:00 am      | Bus departs for Seymour Capilano Filtration Plant (SCFP)                                |
| 9:45 am - 10:45 am | **TOUR** of Metro Vancouver Seymour Capilano Filtration Plant                            |
| 10:45 am - 12:15 pm | **WATER** – PANEL DISCUSSION                                                           |
| 12:15 pm - 12:55 pm | Lunch                                                                                     |
| 12:55 pm      | Bus departs for Metro Vancouver Annacis Island Wastewater Treatment Plant and Annacis Wastewater Centre |
| 1:45 pm - 3:05 pm | **TOUR** of Metro Vancouver Annacis Island Wastewater Treatment Plant                     |
| 3:05 pm - 3:20 pm | Break/Transition to Annacis Wastewater Centre                                           |
| 3:20 pm - 3:25 pm | Welcoming Remarks, Annacis Wastewater Centre                                           |
| 3:25 pm - 4:00 pm | *A Green and Sustainable Solution to Global Phosphorus Depletion, PRESENTATION*        |
| 4:00 pm - 5:30 pm | **WASTE** – PANEL DISCUSSION                                                              |
| 5:30 pm      | Bus departs for Burnaby Village Museum                                                  |
| 6:00 pm - 9:00 pm | Dinner – West Coast BBQ (Western Theme)                                                  |
| 9:00 pm      | Bus departs for Delta Vancouver Suites Hotel                                             |
### DAY 3

#### SEPTEMBER 21 – VARIOUS VENUES and SITE VISIT TOURS

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>7:15 am</td>
<td>Roundtable delegates meet MV staff in Atrium of Wosk Centre for travel to Metro Vancouver Head Office</td>
</tr>
<tr>
<td>8:00 am - 9:00 am</td>
<td>Breakfast Roundtable on Solid Waste&lt;br&gt;&lt;i&gt;Metro Vancouver, 4330 Kingsway, Burnaby&lt;/i&gt;</td>
</tr>
<tr>
<td>7:30 am - 8:00 am</td>
<td>Continental Breakfast&lt;br&gt;&lt;i&gt;Innes Thompson Room, Delta Vancouver Suites Hotel&lt;br&gt;550 West Hastings St, Vancouver&lt;/i&gt;</td>
</tr>
<tr>
<td>8:15 am</td>
<td>Bus departs for Metro Vancouver</td>
</tr>
<tr>
<td>9:00 am - 12:15 pm</td>
<td>CONCURRENT BREAKOUT/WORKSHOP SESSIONS</td>
</tr>
<tr>
<td>9:00 am - 10:30 am</td>
<td><strong>ENERGY:</strong> Distributed and Renewable Energy Systems&lt;br&gt;<strong>WASTE:</strong> Behaviour Change – Plans, Strategies and Tactics&lt;br&gt;<strong>WATER:</strong> Water Conservation</td>
</tr>
<tr>
<td>10:30 am - 10:45 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 am - 12:15 pm</td>
<td><strong>ENERGY:</strong> Sustainable Transportation&lt;br&gt;<strong>WASTE:</strong> Cradle to Cradle Thinking: From Product Design to Reuse&lt;br&gt;<strong>WATER:</strong> Integrated Water Management</td>
</tr>
<tr>
<td>12:15 pm - 1:15 pm</td>
<td>Luncheon and PRESENTATION</td>
</tr>
<tr>
<td>1:15 pm - 2:45 pm</td>
<td><strong>ENERGY:</strong> Working Towards Energy-Wise Targets &amp; GHG Reductions&lt;br&gt;<strong>WASTE:</strong> Waste as an Energy Resource&lt;br&gt;<strong>WATER:</strong> Enhancing Water Quality</td>
</tr>
<tr>
<td>2:45 pm - 3:00 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:00 pm - 4:30 pm</td>
<td>PLENARY DISCUSSION: Staying Competitive and Sustainable in a Global Economy</td>
</tr>
<tr>
<td>4:30 pm - 4:45 pm</td>
<td>REFLECTION on Conference Themes and Outcomes</td>
</tr>
<tr>
<td>4:45 pm - 5:00 PM</td>
<td>Concluding Remarks</td>
</tr>
<tr>
<td>5:00 pm - 6:15 pm</td>
<td>CLOSING RECEPTION — Metro Vancouver Boardroom</td>
</tr>
<tr>
<td>5:00 pm - 6:00 pm</td>
<td>Representatives Meeting</td>
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<tr>
<td>6:15 pm</td>
<td>Bus departs for Delta Vancouver Suites Hotel&lt;br&gt;Transportation is available for those travelling directly to the airport</td>
</tr>
<tr>
<td>Time</td>
<td>Event Description</td>
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<td>--------------</td>
<td>-----------------------------------------------------------------------------------</td>
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</tbody>
</table>
| 8:00 am - 9:00 am | Continental Breakfast/Registration  
Wosk Centre for Dialogue – ICBC Concourse  
580 West Hastings St, Vancouver |
| 9:00 am - 9:15 am | Welcoming Remarks                                                                 |
| 9:15 am - 10:00 am | OPENING KEYNOTE ADDRESS                                                           |
| 10:00 am - 10:15 am | Break                                                                             |
| 10:15 am - 12:00 pm | MAYORS’ PANEL –  
Strategic Planning and Governance for Future Cities Today |
| 12:00 pm - 1:30 pm | LUNCHEON and KEYNOTE CONVERSATION                                                 |
| 1:30 pm - 3:00 pm | ENERGY PANEL DISCUSSION                                                           |
| 3:00 pm - 3:15 pm | OVERVIEW of City of North Vancouver  
Lonsdale Energy Corporation                                                      |
| 3:15 pm        | Depart for Lonsdale Energy Corp. - walk to seabus                                  |
| 3:45 pm - 4:45 pm | TOUR of Lonsdale Energy Corporation  
Shipbuilders’ Square, 15 Wallace Mews, North Vancouver  
(1/2 block east of bottom of Lonsdale Avenue) |
| 5:00 pm        | Bus departs for Grouse Mountain and Cleveland Dam                                  |
| 6:00 pm - 9:00 pm | DINNER and KEYNOTE ADDRESS  
Lupin’s Café – Grouse Mountain  
6400 Nancy Greene Way, North Vancouver |
| 9:30 pm        | Bus departs for Delta Vancouver Suites Hotel                                       |

**NOTE:** Breakfast/Registration is at the  
Wosk Centre for Dialogue (adjacent to Delta Hotel)  
ICBC Concourse (open to all delegates)  
580 West Hastings Street, Vancouver
LOIS E. JACKSON

Mayor, Corporation of Delta,
Chair, Metro Vancouver Board of Directors

Lois Jackson has served Delta as Mayor and previously as a Councillor since she was the first woman elected to that position in 1973. Mayor Jackson also holds the position of Chair of the Metro Vancouver Board of Directors since December 2005. Mayor Jackson has received much recognition over the years, including a 25 year service award from the Union of B.C. Municipalities; the Queen’s Golden Jubilee commemorative medal in 2002, the Canadian Medal for outstanding contribution to community service in 1993 and the Paul Harris Fellow Award by the Rotary Club of Ladner in 2008 and the North Delta Rotary Club in 2011. Mayor Jackson is particularly proud of her vital role in bringing four levels of government together in 2004 to purchase Burns Bog and preserve it as an Ecological Conservancy Area.

BILL STAFFORD

Senior Advisor
Trade Development Alliance
of Greater Seattle

Bill Stafford is Senior Advisor to the Trade Development Alliance of Greater Seattle. He was President from 1991 to June 2011. He is also a Senior Consultant to Nyhus Communications. Between 1971 and 1990, he was employed with the City of Seattle in a number of positions, including Deputy Mayor to Charles Royer and Director of the Office of Intergovernmental Relations, where he was responsible for the national, state, regional and international relations of the city.
Gil Peñalosa is internationally renowned as a liveable city advisor and social marketing strategist. Passionate about creating cities for people, he hopes to improve the quality of life for all residents. He shares his knowledge and experience from around the world in the design and management of great parks, public spaces, and walking and cycling infrastructure.

As Executive Director of the Canadian non-profit organization 8-80 Cities, Gil’s tireless commitment to fostering healthy communities remains front and centre. Because of his unique blend of pragmatism and passion, Gil’s leadership and advice have been sought out by many cities and organizations around the world.

Gil’s presentations draw on his experience and successes in both the private and public sector. As former Commissioner of Parks, Sport and Recreation for the City of Bogotá, Colombia, Gil successfully led the design and development of over 200 parks of which Simón Bolívar, a 360-hectare park, is the best known. Here they created the Summer Festival, with over 100 events in 10 days and more than 3 million people attending, making it the main recreational and cultural event in the country. Gil’s team also initiated the “new Ciclovia”—car-free Sundays. Today, this is an internationally recognized program which sees over 1.3 million people walk, run, skate and bike along 121 kilometers of Bogotá’s city roads.

Gil also works as a Senior Consultant for the renowned Danish firm Gehl Architects. He serves on the Boards of Directors of Ciclovias of the Americas, City Parks Alliance, USA; is a Senior Advisor to Velo-City 2012 in Vancouver, and to the International Sport and Culture Association.

Gil holds an MBA from UCLA’s Anderson School of Management, where he recently was selected as one of the “Most Inspirational Alumni” in the school’s history. Gil’s professional achievements have also been recognized through several awards including; the medal of High Honour from the Colombian Ministry of Education and Sport; the Kirk French Spirit Award for Excellence from the City of Mississauga, Canada; Trail Builder Award from the Ontario Trails Council, Canada; and the 2011 City Builder by Guadalajara 2020 and the state of Jalisco in Mexico.
Strategic Planning and Governance for Future Cities Today

Good governance is considered a precondition to sustainable development, but what does that mean in practice? Mayors from member regions will reflect on the political challenges and opportunities that are shaping the sustainable development of their metropolitan regions. What do they foresee as the most pressing issues facing their constituents in the years to come? Given the current economic climate, how are they managing expectations and reconciling the need for regional sustainability while addressing current financial pressures? How might opportunities presented through emerging green economies best be capitalized on? How can environmental, social and economic concerns be integrated into land use and transportation planning?

Session Moderator:
- Derek Corrigan, Mayor, City of Burnaby and Director, Metro Vancouver Board of Directors

Panellists:
- Derek Corrigan, Mayor, City of Burnaby and Director, Metro Vancouver Board of Directors
- Andrew Montague, Lord Mayor, City of Dublin
- Helene Hellmark Knutsson, Chair, Council for the Stockholm Mälar region and Commissioner and leader of the Opposition in the Stockholm County Council
- Pekka Sauri, Deputy Mayor (Environmental Affairs), City of Helsinki
- Soichiro Takashima, Mayor, Fukuoka City
Mayor Derek Corrigan has been a Burnaby resident since 1977. He was first elected to Burnaby City Council in 1987, serving as a Councillor for 15 years until his election as Mayor in 2002. Mayor Corrigan has a law degree from the University of British Columbia, obtained after 3 years of undergraduate study in political science and philosophy. He was called to the B.C. Bar in 1978. Over his lengthy political career, Mayor Derek Corrigan has served on many key committees at the local, regional and national levels. He also served as the Chair of B.C. Transit from 1994-97 assuming responsibility for all transit systems in B.C. Mayor Corrigan currently sits on the Mayor’s Council on Regional Transportation.

Metro Vancouver has also appointed Mayor Corrigan as a representative to the International Centre for Sustainable Cities and an Alternate Representative to the Western Transportation Advisory Council (WESTAC). He is also an appointed Director of the Municipal Finance Authority. Mayor Corrigan is the recipient of the Federation of Canadian Municipalities 2011 FCM Green Champion Award–Individual.

Mayor Derek Corrigan has been recognized as a recipient of the Canada 125 medal for Community Service. He has also received special recognition awards from the Siri Guru Ravidass Temple and the Arul Migu Thurkaderi Hindu Society B.C. for community service. Mayor Corrigan continues his commitment to the International Mayors for Peace organization and received a special recognition award for his participation in the United Nations Nuclear Non-Proliferation Conference.
Andrew Montague  Lord Mayor of Dublin
Lord Mayor Andrew Montague was elected as Lord Mayor of Dublin on 27th June 2010. A member of the Labour Party, he was first elected to Dublin City Council in 2004 representing the Ballymun-Whitehall Ward. He was re-elected to Dublin City Council in 2009 to the newly formed Artane-Whitehall Ward. He was Deputy Lord Mayor of Dublin in 2004/2005. He has a Bachelor’s Degree and a Master’s degree in Veterinary medicine from University College Dublin (UCD). After finishing his training he spent a number of years working in the UK before returning to Ireland in 1998 to take up a research post in the Veterinary College in UCD. Two years later he left the Veterinary College to set up his own web design business, Driocht web.

Helene Hellmark Knutsson  Chair of the Council for the Stockholm Mälar region
Helene lives in Sundbyberg, a neighbour city to Stockholm. Helene has been Chair of the Council for the Stockholm Mälar region since June 2011 and is also County Council Commissioner and leader of the opposition in the Stockholm County Council. Ms. Knutsson was the Mayor of Sundbyberg from 2001 to 2010 and Vice-Chairwoman of the Stockholm county party board for the Social Democrats. Helene previously served as Chair of the municipal Agenda 21 project, board member of the county police board, Vice Chair of Norrvatten AB (a public limited municipal water treatment company), and Vice Chair of the Greater Stockholm Fire Department.

Pekka Sauri  Deputy Mayor (Environmental Affairs), City of Helsinki
Pekka Sauri has served as Deputy Mayor of the city of Helsinki since 2003, in charge of Public Works and Environmental Affairs. He was elected to the office as a Finnish Green League party member by Helsinki City Council, first for a seven-year term, and re-elected for another seven years in 2010. Prior to his current office, Dr. Sauri served in various positions in mental health counselling in Finland in 1975-2003. He was Chairman of the Green League of Finland in 1991-93. He also worked as a radio journalist in 1986-2002. Dr. Sauri’s long list of positions of trust over the past 21 years, both in Finland and internationally, include chairmanship of the European Federation of Green Parties in 1994-97. Dr. Sauri holds a Doctor of Philosophy degree from the Brunei University, London, U.K.

Soichiro Takashima  Mayor, Fukuoka City Government
Mayor Takashima graduated from the Faculty of Law at Dokkyo University and entered the Kyushu Asahi Broadcasting Company in 1997. Mr. Takashima was elected to Mayor of Fukuoka City in 2010.
Dr. Toshi Noda was born in Kyoto, Japan, in 1953. Now he is the Director of UN-HABITAT’s Regional Office for Asia and the Pacific, where he is responsible for overseeing the agency’s regional activities covering broad and multifaceted aspects of human settlements, ranging from poverty alleviation, to localizing the Millennium Development Goals, and to post-disaster and post-conflict reconstruction.

Dr. Noda obtained his doctorate for Human-Environment Studies from Kyushu University. He specializes in environmental planning and management, disaster preparedness and management, and development planning at both community and national levels. He joined the National Land Agency (currently Ministry of Land, Infrastructure, Transport and Tourism: MLIT), in the Prime Minister’s Office of the Government of Japan in 1979, where he supervised a number of critical planning policies including national development plans, land use administration and establishment of national information systems. He held Chief and Directorship positions in the Human Settlements Coordination and Disaster Preparedness and Coordination Divisions, most recently serving as the Director for National Planning Division, National and Regional Planning Bureau, MLIT, where he was responsible for the establishment of the Integrated National Development Plan.

During his career with the Government of Japan, he was dispatched to key positions and committees in a number of international organizations including UNCHS-HABITAT (1983-1985), UN Department of Humanitarian Affairs in Geneva (1989-1992), and UN-HABITAT (2002-2004). In September 2006, Dr. Noda was appointed Director of Regional Office for Asia and the Pacific, UN-HABITAT.
INTRODUCTION to Energy Theme

Within the context of peak oil, rising energy prices, climate change, and increased demand for oil in developing countries, the world is rethinking both the supply and use of energy in a way that could radically change from today. Reducing our dependence on oil and other fossil fuels, diversifying the global energy portfolio by promoting local energy solutions, increasing energy efficiency in our buildings, industrial processes and transportation systems and investing in clean, renewable energy sources are some of the solutions that may help meet future energy needs. What is the role of local governments in moving toward a more sustainable energy future? What innovative actions can and are being taken to help shape a more sustainable energy outlook?

**Session Moderator:**
- Darrell Mussatto, Mayor, City of North Vancouver and Director, Metro Vancouver Board of Directors

**Panellists:**
- Darrell Mussatto, Mayor, City of North Vancouver and Director, Metro Vancouver Board of Directors
- Benita Vikström, Regional Association of the County of Sörmland, former mayor of Oxelösund
- Tom Ranken, President, Washington Clean Technology Alliance
- Hiroto Yasuura, Executive Vice President, Professor, Kyushu University, Fukuoka
- Joan Marull, Director of Sustainability and Satellite Studies, Institut d’Estudis Regionals i Metropolitans de Barcelona
Mr. Darrell Mussatto is serving his second term on City Council as Mayor. Previously, he served four terms as Councillor and participated actively in community advisory committees. Mayor Mussatto is also a Director of Metro Vancouver, serving as Chair of the Port Cities Committee, and as a member of the Metro Vancouver Waste Management, Intergovernmental, Regional Planning, Housing and Mayors committees.

Mayor Mussatto’s priority issues are sustainability, affordability and homelessness. He is passionate about making the City a place where the benefits of growth are shared by all, supporting affordable housing initiatives, social programs, and new parks and trails. He is committed to lowering the City’s carbon footprint by making the City more bike-friendly, reducing energy use, managing our liquid and solid waste in a more environmentally friendly way, supporting urban gardening and expanding the award winning Lonsdale Energy Corporation.

A paramedic with B.C. Ambulance Service, Mayor Mussatto also garnered the B.C. Ambulance Services Executive Director’s Commendation in 1995. In 1991, he received the Red Cross Community Service Award.

Mayor Mussatto holds a BA and Professional Teaching Certificate, as well as a Health and Fitness Certificate from Simon Fraser University.
Benita Vikström  *Regional Association of the County of Sörmland, former Mayor of Oxelösund*  
Benita Vikström is a politician from the Social Democratic Party. She was mayor for twelve years in the city of Oxelösund a small city in the Stockholm region from 1998-2010. She has also been a member of the regional council during these years. She has had a special assignment in the region to work on the European level with the strategies for sustainable growth. From the beginning of this year she is the politician in charge of a European project, “EU 2020 Going Local”: 14 regions in 9 countries in Europe working together to achieve the targets set by EU. Before she became a mayor she was, during 1992-1998, the vice president of one of the largest trade unions in Sweden, SKTF (Vision).

Tom Ranken  *President and CEO, Washington Clean Technology Alliance (WCTA)*  
Tom is President and CEO of the Washington Clean Technology Alliance. The WCTA's mission is to facilitate the generation and growth of cleantech companies, jobs, and products in Washington State. As an entrepreneur, Tom was CEO of VizX Labs and Axio Research Corporation. Tom has an MBA from the University of Washington and a BA in economics from the University of Virginia. Active in the community and in professional organizations, Tom spent 14 years as a Trustee of Harborview Medical Center and served two-terms as President of the Board.

Hiroto Yasuura  *Executive Vice-President, Professor, Kyushu University*  
Hiroto Yasuura is the Executive Vice President (CIO and CFO) of Kyushu University. He is a professor of the Faculty of Information Science and Electrical Engineering, as well as a member of System LSI Research Center of Kyushu University. He also serves as the director general of Fukuoka Asian Urban Research Center (URC) founded by Fukuoka city. Dr. Yasuura received his BE, ME, and PhD in computer science from Kyoto University in 1976, 1978, and 1983 respectively. He was an associate professor in Kyoto University and joined Kyushu University as a professor in 1991. From 2001, he has been the research director of Silicon Sea Belt Fukuoka project, which aims to build up a research-industry cluster on LSI design. He was also a leader in establishing the Institute of Systems, Information Technologies and Nanotechnologies founded by Fukuoka City in 1995.

Dr. Joan Marull  *Director of the Department of Sustainability and Satellite Studies of the Barcelona Institute of Regional and Metropolitan Studies (IERMB)*  
Dr. Marull has been a Director for the Institute since April 2010. He is an Ecologist, with a PhD in Biology (Barcelona University - UB). His main field of activity is research and land management and urban planning from a systemic approach. Before joining the IERMB he worked in the Barcelona regional agency. Currently, his research focuses on the study of urban metabolism and territorial efficiency, as well as the application of satellite technology in the analysis of environmental cost of mobility and land use changes. He is the author of more than forty scientific papers and has participated in the writing of eight books on ecological genetics, environmental management and landscape ecology. He has given numerous conferences and postgraduate courses.
OVERVIEW and TOUR of City of North Vancouver Energy Corporation

Shipbuilders’ Square, 15 Wallace Mews, North Vancouver

Since 2004, the award winning district energy system, Lonsdale Energy Corporation (LEC), has been providing City of North Vancouver residents with dependable, clean, competitively priced energy, while ensuring that the most efficient energy source is constantly used.

3:00 - 3:10 pm  Darrell Mussatto, Mayor, City of North Vancouver and Director, Metro Vancouver Board of Directors

3:15 pm  Depart for Lonsdale Energy Corporation

3:55 - 4:45 pm  TOUR of Lonsdale Energy Corporation

5:00 pm  Bus departs for Grouse Mountain and Cleveland Dam
BING THOM

CM, FRAIC, MAIBC, AIA
Principal & Creative Director,
Bing Thom Architects

Bing Thom is one of Canada’s most admired and accomplished architects and is the principal of Bing Thom Architects (BTA), a Vancouver-based firm he founded in 1980.

A graduate of the University of British Columbia and the University of California at Berkeley, Bing is a dedicated and artful city-builder whose global reputation has risen in consort with that of Vancouver, the city he has done much to protect, and to improve.

His commitment to using great architecture to improve the urban context and social condition has been recognized by a range of honours including the Order of Canada, the Golden Jubilee Medal, honorary degrees from SFU and UBC, and an honorary professorship from Tongji University in Shanghai. His firm was awarded the 2010 Architectural Firm of the Year Award by the Royal Architectural Institute of Canada and most recently, Bing is the recipient of the RAIC Gold Medal, the highest honour given to a Canadian architect.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am - 9:00 am</td>
<td>Continental Breakfast</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Bus departs for Seymour Capilano Filtration Plant (SCFP)</td>
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<td></td>
<td><em>Meeting spot: Atrium at the Wosk Centre</em></td>
</tr>
<tr>
<td>9:00 am - 10:45 am</td>
<td><strong>TOUR</strong> of Metro Vancouver Seymour Capilano Filtration Plant</td>
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<td></td>
<td><em>4400 Lillooet Road, North Vancouver</em></td>
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<tr>
<td>10:45 am - 12:00 pm</td>
<td><strong>WATER:</strong> PANEL DISCUSSION</td>
</tr>
<tr>
<td>12:00 pm - 12:45 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:45 pm</td>
<td>Bus departs for Metro Vancouver Annacis Island Wastewater Treatment Plant</td>
</tr>
<tr>
<td>1:45 pm - 3:05 pm</td>
<td><strong>TOUR</strong> of Metro Vancouver Annacis Island Wastewater Treatment Plant</td>
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<td></td>
<td><em>Treatment Plant: 1299 Derwent Way, Delta</em></td>
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<tr>
<td>3:05 pm - 3:20 pm</td>
<td>Break/Transition to Annacis Wastewater Centre</td>
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<tr>
<td>3:20 pm - 3:25 pm</td>
<td>Welcoming Remarks</td>
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<td></td>
<td><em>Wastewater Centre: 1400 Lindsey Place, Delta</em></td>
</tr>
<tr>
<td>3:25 pm - 4:00 pm</td>
<td><strong>A Green and Sustainable Solution to Global Phosphorus Depletion,</strong></td>
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<tr>
<td></td>
<td><strong>PRESENTATION</strong></td>
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<tr>
<td>4:00 pm - 5:30 pm</td>
<td><strong>WASTE:</strong> PANEL DISCUSSION</td>
</tr>
<tr>
<td>5:30 pm</td>
<td>Bus departs for Burnaby Village Museum</td>
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<tr>
<td>6:00 pm - 9:00 pm</td>
<td><strong>DINNER</strong> – West Coast BBQ (Western Theme)</td>
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<td></td>
<td><em>6501 Deer Lake Ave., Burnaby</em></td>
</tr>
<tr>
<td>9:00 pm</td>
<td>Bus departs for Delta Vancouver Suites Hotel</td>
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**NOTE:** Dress code for the day should be casual and weather appropriate (ie. jeans, jacket and sturdy shoes) No heels or open-toed shoes.
INTRODUCTION to Water Theme

We have invested a large amount of capital to bring drinking water into metropolitan areas, and even more to convey wastewater and storm water runoff out of our cities. But the combination of water scarcity in some regions, competing uses for water from the energy and agricultural sectors, climate change impacts, ecological restoration efforts, and basic economics will require metropolitan areas to use water far more efficiently. What kind of policy and planning initiatives will foster a more holistic and integrated approach to managing water use in cities – one that will satisfy the needs for water, support sustainable economic activities and ensure healthy urban ecosystems?

Session Moderator:

• Tim Stevenson, Councillor, City of Vancouver and Director, Metro Vancouver Board of Directors

Panellists:

• Tim Stevenson, Councillor, City of Vancouver and Director, Metro Vancouver Board of Directors

• Anna Lundgren, General Secretary, Council for the Stockholm Mälar region

• Daisy Foster, CEO, BC Water and Waste Association and Len Stein, President, BC Water and Waste Association and Director, Utility Operations, City of Abbotsford.

• Stewart J. Cohen, Adaptation and Impacts Research Division (AIRD), Environment Canada; Adjunct Professor, Department of Forest Resources Management, University of British Columbia.
TOUR of Metro Vancouver
Seymour Capilano Filtration Plant

The recently commissioned Seymour-Capilano Filtration Plant, the largest of its kind in Canada, currently treats water from the Seymour Reservoir. When the twin tunnels are complete the Plant will treat 1.8 billion litres of water from both the Seymour and Capilano sources. The Plant is located in the Lower Seymour Conservation Reserve.
Councillor, City of Vancouver and Director, Metro Vancouver Board of Directors

Tim Stevenson was elected to Vancouver City Council in 2002, and was re-elected in 2005 and 2008. Tim holds bachelor of arts (University of British Columbia), master of arts (Holy Names College, California) and masters of divinity (Vancouver School of Theology) degrees. He was first elected to the British Columbia Provincial Parliament in 1996 and was appointed Parliamentary Secretary to the Minister of Health. Subsequently, he became Deputy Speaker of the House and then was appointed Cabinet Minister, holding the portfolio of Employment and Investment.

Prior to being elected to office, he was the minister at St. Paul’s United Church. Currently, he also teaches Comparative Religions (Islam, Christianity, and Judaism) in the Religious Studies Department at Langara College in Vancouver.

Tim spent 10 years in Vancouver’s Downtown Eastside working with the inner city poor while sitting on the Board of the First United Church. Tim has also worked in the Philippines and South Africa where he was one of the Canadian representatives at the African National Congress Conference in Durban in 1991 where Nelson Mandela was elected as the ANC’s party President. He was also one of the International Observers in the South African elections in 1994.
PANELLISTS

Anna Lundgren  Secretary General,  Council for the Stockholm Mälar Region
Anna Lundgren is the Secretary General of the Council for the Stockholm Mälar Region, an association of 56 local authorities and 5 county councils aiming at strengthening the greater Stockholm region’s competitiveness through regional cooperation.

Anna Lundgren has more than 15 years of experience in international cooperation and regional development issues. She started her career working with European issues at the Swedish Federation of County Councils from 1994-1998. After a short period at the Stockholm County Council, Anna joined the Council for the Stockholm Mälar Region in 1998 working with regional development and benchmarking. Anna has a bachelor degree in Political Science. Since 2009 Anna Lundgren holds the position Secretary General for the Council for the Stockholm Mälar Region.

Daisy Foster,  CEO,  BC Water and Waste Association
Daisy is the CEO with the BC Water and Waste Association. After a brief career as an educator, she has spent most of her career working in areas of association management, water utility management and consulting. Daisy’s work focuses on helping boards and Councils take a macro perspective in developing sound written policies to guide future development of their communities. Daisy holds a Bachelor of Education and a Bachelor of Commerce from Memorial University.

Len Stein,  President,  BC Water and Waste Association and Director, Utility Operations, City of Abbotsford
Len started his career in the water industry as a journeyman plumber working on wastewater plants and water infrastructure. In 1985 attended the British Columbia Institute of Technology garnering a diploma in civil and structural technology. His current position is with the City of Abbotsford where he is the Director of Utility Operations overseeing the operations and maintenance of the James Sewage Treatment Plant and the sanitary and storm sewer collection systems and the Norrish Creek Water Treatment Plant and the water supply wells, and the water distribution and SCADA systems. Len is the current President of the BC Water and Waste Association.

Stewart J. Cohen  Adaptation and Impacts Research Division (AIRD),  Environment Canada;  Adjunct Professor,  Department of Forest Resources Management,  University of British Columbia.
Dr. Stewart J. Cohen is senior researcher with the Adaptation and Impacts Research Section of Environment Canada, and an Adjunct Professor with the Department of Forest Resources Management, at the University of British Columbia (UBC). His research interests are in climate change impacts and adaptation through shared learning between researchers and practitioners. This includes a recently completed series of studies on water resources within the Okanagan region, and contributions to ongoing studies on forest management in Williams Lake, Kamloops, and Northwest Skeena. He is currently an advisor for the Columbia Basin Trust program—Communities Adapting to Climate Change Initiative, as well as the Fraser Basin Council, and the Okanagan Basin Water Board’s Water Supply and Demand Study—Phase III. He has been a member of various author teams for climate change reports in Canada and the United States, and for the Intergovernmental Panel on Climate Change (IPCC). Dr. Cohen teaches a graduate course on climate change at UBC, and has written a textbook (with Melissa Waddell) based on that course, entitled Climate Change in the 21st Century. The book has been published by McGill-Queens University Press.
INTRODUCTION to Waste Theme

In a world where resources and traditional sources of energy are becoming increasingly scarce, we must rethink the concept of waste. In forward-thinking metropolitan areas, the solid and liquid waste flows are being examined and mined for a variety of reusable and recyclable resources, as well as used to generate heat and energy. What are the opportunities for expanding this approach? More importantly, how can local governments support a transition to economic prosperity that relies less on the consumption of resources and the generation of waste?

Session Moderator:

- Greg Moore, Mayor, City of Port Coquitlam and Director, Metro Vancouver Board of Directors

Panellists:

- Greg Moore, Mayor, City of Port Coquitlam and Director, Metro Vancouver Board of Directors
- Karin Pettersson, Development Engineer, VAFAB Miljö Ltd, Stockholm
- Reetta Anderson, Development Engineer, Helsinki Region Environmental Services Authority
- Yuan Jianning, Vice President, Dongda Group, Dalian, China
TOUR of Metro Vancouver Annacis Island Wastewater Treatment Plant

1:45 pm – 3:05 pm

1. Influent sewer
2. Influent Pumps and Screens
3. Pre-aeration & Primary Sludge Settling
4. Trickling Filters
5. Solids Contact Tanks
6. Secondary Settling
7. Disinfection
8. Effluent sewer
9. Primary and Secondary Sludge Thickening
10a. High Temperature Digestion
10b. Digestion Sludge
10c. Co-digestion Facility
11. Dewatering
12. Cogeneration
13. Odour Control
14. Operations and Maintenance
15. Biosolids Demonstration Garden
1. Influent sewer

2. Influent Pumps and Screens – In the screen room, raw sewage flows through 3 channels, each containing a mechanically-raked bar screen that screens debris from the raw sewage as it passes through. 3 pumps then lift the influent flow to an elevation that allows gravity flow through the primary process.

3. Pre-aeration & Primary Sludge Settling – Aeration in the pre-aeration tanks promotes rapid settling of grit while maintaining organic solids in suspension. Separating grit early in the treatment process prevents excessive wear on downstream equipment and reduces the amount of grit reaching the sludge treatment process. 13 sedimentation tanks provide for the required capacity to facilitate the settling of 60-70 percent of the suspended solids. Grease, oil and other floatable material are skimmed from the surface and removed from the flow.

4. Trickling Filters – 4 pumps lift the primary effluent, received from the primary sedimentation tanks, to an elevation that allows gravity flow through the trickling filters and secondary process. The trickling filters remove soluble carbonaceous biochemical oxygen demand (cBOD). The trickling filter consists of plastic crossflow media for efficient contact of primary effluent with the biomass film which grows on the media. Flow distributor arms primary effluent evenly over the media. The biomass film consists of a population of aerobic microorganisms attached to the filter media. Biodegradable organic material in the primary effluent is adsorbed onto the biofilm. As the microorganisms grow they become dislodged from the media and are conveyed with the liquid to the solids contact tanks.

5. Solids Contact Tanks – Trickling filter effluent flows to the solids contact tanks where it is mixed with the returned secondary sludge forming “mixed liquor” to promote flocculation and to improve settling characteristics. Any remaining soluble BOD is also consumed by the microorganisms in the solids contact tanks.

6. Secondary Settling – 12 secondary clarifiers receive mixed liquor from the solids contact tanks. The purpose of secondary clarification is to separate the mixed liquor suspended solids from treated wastewater. A portion of the settled biological solids are returned to the solids contact tanks as return secondary sludge. The remaining solids are wasted to the dissolved air flotation tanks to be thickened.

7. Disinfection – Prior to final discharge to the Fraser River, disinfection is achieved using chlorine (via sodium hypochlorite). Disinfection reduces pathogens and takes place during the summer months only. Any residual chlorine, which is harmful to fish, is removed using sodium bisulphite.

8. Effluent sewer

9. Primary and Secondary Sludge Thickening – Solids removed from the primary settling tanks are thickened in a gravity thickener. Solids removed from the secondary process are thickened using dissolved air flotation process. Thickening, or the reduction of water, is beneficial in reducing process heat demands and digestion capacity. Thickened solids are co-mixed prior to pumping into the digesters.

10a. High Temperature Digestion – The flow-through vessels operate in conjunction with the digesters to provide high quality sludge treatment enabling the end product to satisfy criteria for provincial Class A Biosolids.
10b. Digestion – Sludge digestion is accomplished using a thermophilic anaerobic process at a temperature of 55°C. The digestion process reduces the volatile solids in the sludge by about 60 percent, reducing the amount of sludge to dispose of and also “pasteurizing” the sludge. The sludge gas (60% methane) produced in the process is collected and utilized in the co-generators and boilers. Heat from the boilers is used for heating the sludge and buildings at the plant.

10c. Co-digestion – Facility for cleaning and direct injection of high strength organic waste directly into the primary digesters. The high strength waste is very quickly converted by the anaerobic bacteria to gas and then burned in the co-generation engines.

11. Dewatering – Digested sludge, normally having a concentration of about 2%, is mechanically dewatered to decrease the sludge moisture content. Sludge dewatering reduces sludge transportation costs for off-site utilization. Centrifuges which rotate at high speeds, imparting centrifugal forces up to 3,500G on the sludge, dewater the sludge to solids concentrations of 20 to 30%.

12. Cogeneration – The Cogeneration System (4 generators) utilizing digester gas, produce 3,216 kW of electrical power and 3,700 kW of heat for plant process and space heating requirements. The 4 cogeneration units provide for 40% of the daily average electrical demand.

13. Odour Control – Foul air, collected from the odour producing areas of the plant, is treated using chemical scrubbers and biofilters. Biofilters reduce the concentration of odourous compounds by adsorbing them onto the filter media, where microbial oxidation occurs. The plant has three odour control facilities: the primaries, the trickling filter solids contact (secondaries), and the solids facilities biofilter.

14. Operations and Maintenance Facility – The Operations and Maintenance building houses the main Control Room, offices, process laboratory, maintenance and repair facilities, ancillary equipment areas and staff. Currently the plant is staffed 24/7/365. Maintenance activities are scheduled. Monday to Friday where approximately 75 workers are onsite during the day shift.

15. Biosolids Demonstration Garden – This garden was created to demonstrate how biosolids can be used effectively and beneficially in the landscaping environment. The garden design promotes ecologically sustainable landscaping practices and puts into practice Metro Vancouver’s regional objectives for water conservation, recycling building materials, wastewater reuse and stormwater management.
SEPTEMBER 21

WEDNESDAY

WELCOME

3:20 pm - 3:25 pm
Annacis Wastewater Centre

JOHNNY CARLINE
Commissioner and CAO,
Metro Vancouver

DR. ERIC HALL
Associate Dean,
Department of Civil Engineering,
University of British Columbia

Annacis Wastewater Centre

Innovative Technology Development
First Class Laboratories
Progressive, Integrated Research
Graduate Research Programs
Annacis Wastewater Centre

The Annacis Wastewater Centre will provide a leading edge, locally-based research centre that will conduct required research and new technology trials that in turn could be quickly transferred to municipal utilities in BC in an efficient and cost effective manner.

The vision for Metro Vancouver’s Annacis Academy was borne of discussions with the University of British Columbia regarding an opportunity to partner on leading-edge wastewater research. That vision centres on a place of excellence in wastewater research and development, training and education - a place that challenges us to think in new ways in managing and treating wastewater, promoting energy reduction and mitigating environmental impacts.

The Annacis Academy will provide a long-term benefit for British Columbians by enabling partners from various agencies and organizations to respond to the multiple challenges related to energy use, water, materials, environment, sustainability and integration of wastewater systems.

PROJECT DETAILS

The Annacis Academy will provide the opportunity to conduct research and technology development in a variety of cross-disciplinary areas including:

- Waste-to-energy
- Nutrient removal
- Process optimization
- Odour control
- Greenhouse gas reduction
- Integrated resource recovery
- Contaminant removal
- Bioremediation

The Academy will provide access and services to a larger expanding green technology research and development market sector, helping create employment and establish key markets for Canadian technologies.
In addition, the Annacis Academy represents an outstanding opportunity to verify one of the most promising new opportunities in waste management: the application of Integrated Resource Recovery, or IRR, which extracts incremental value from the management of wastewater and solid waste treatment by integrating the use of recovered resources.

The development of the Annacis Academy will allow the integration of IRR principles into its design and construction, and will offer quality opportunities for research, including:

- Assessment of the co-digestion of organic streams from municipal solid waste, industry and agriculture activities to maximize energy recovery and biofuel production
- Evaluation of building technologies and materials to improve energy and water utilization
- Measurement of equipment performance against IRR principles and specified operational criteria
- Assessment of the GHG reduction potential of alternate energy sources (food waste, industrial and municipal liquid and solid wastes, wood, wind, solar)

The Annacis Academy will provide top-quality laboratory facilities for research and teaching, access to various in-plant wastewater streams for manufacturers and suppliers of equipment to demonstrate processes, and pilot facilities for optimizing full scale processes. In addition, the Academy will contain assembly meeting rooms providing space for public discourse and education and other professional services, and training facilities for Canadians, enabling them to advance professionally, upgrade their skills or retrain to meet growing provincial demands.
Dr. Mavinic joined UBC as an Assistant Professor of Civil Engineering in 1973. He was promoted to Associate Professor in 1978 and to Full Professor in 1983. He has been a Professional Engineer since 1974, a Fellow of the Canadian Society of Civil Engineering since 1994, a Fellow of the Canadian Academy of Engineering since 2003, and a Fellow of the Engineering Institute of Canada since 2005.

Since 1984, he has been in charge of the Environmental Engineering Program at UBC. From 1998-2001, he was Associate Dean, Faculty of Graduate Studies, UBC; from 2007-2008, Associate Dean, Faculty of Applied Science; and currently, Associate Head, Department of Civil Engineering, UBC. He has published over 250 papers and technical reports, supervised or co-supervised to completion 20 PhD’s, and 60 MASc students, and acted as a consultant to over 80 private firms and government agencies, over the last 35 years.

He was a Member of the Board, OSTARA Nutrient Recovery Technologies Inc., a UBC spinoff company founded in 2005. In 1992, he was awarded the Albert E. Berry Award by the Canadian Society for Civil Engineering, for major contributions to Environmental Engineering in Canada. More recently he was the recipient of the Manning Foundation Award of Distinction (2010); The NCERC Synergy Award with contributing partners including METRO (2010); and the UBC Killam Foundation Senior Research Award (2011). He has been honored with over 40 invited lectureships and keynote addresses, including the Royal Society of London.
Greg Moore was first elected to Council in November 2002 and re-elected in 2005. In 2008, he was elected as Port Coquitlam’s 15th Mayor. Greg Moore has a Masters in Business Administration (with emphasis in Digital Technology) from Royal Roads University and a Bachelor Degree in Urban Geography/Planning from Simon Fraser University. He is a lifelong resident of Port Coquitlam with over 10 years municipal government experience as a Port Coquitlam City employee in the Parks and Recreation and the Development Services Departments.

Mayor Moore is a Director on the Metro Vancouver Board of Directors and Chair of the Metro Vancouver Waste Management Committee. At Metro Vancouver he also serves as a Committee Member on the Finance Committee, the Intergovernmental Committee, the Policing Issues Committee and the Regional Planning Committee.

Mayor Moore believes community engagement results in better Council decisions, and began his term by revising Council’s committee system—with Council’s consent—to include citizen advisors in the decision-making process. He will dedicate the next three years to working with Council to build a stronger local economy, improve transportation, enhance the environment, improve community safety and celebrate community pride.
**Karin Pettersson  Development Engineer, Vafab Miljö Ltd**

VafabMiljö AB is a regional waste management company in Västmanland in Sweden. The company is owned by 12 municipalities in the region, who by cooperating are achieving technical and economical synergetic effects as well as bringing together waste management expertise in company. The role of the company is, apart from treating waste, to work towards creating long term sustainable waste management solutions with great environmental focus.

Karin Pettersson works as a development engineer at VafabMiljö. In this role she is working bilaterally with other departments within the company on projects such as developing business concepts for hazardous waste and introducing collection of oils and fats from households. Part of Karin’s role is of a more ongoing character such as managing leachate treatment and supporting the municipalities with statistics on waste streams and waste management planning. For six months Karin has been part of a working group put together to produce the third generation waste management plan for the biggest municipality in the region, Västerås, a plan which aims to set waste goals and action plans for the next four years. Karin is also responsible for covering the interests of VafabMiljö and the waste industry in local planning matters in the region.

Karin’s background is in the environmental consultancy business with one degree in Soil Science and one in Land Reclamation and Restoration.

**Reetta Anderson  Development Engineer, Helsinki Region Environmental Services Authority**

Reetta Anderson has an M.Sc. in Environmental Engineering from the University of Oulu 2001. She has worked as a Development Engineer for the Finnish Environment Institute with issues considering environmental geotechnics (e.g. landfills and tailings dams). For the Helsinki Metropolitan Area Council’s Waste Management Department she has worked as a Project Engineer, Development Manager and Development Engineer and has been involved with various research and development projects. In her current position as Development Engineer with the Helsinki Region Environmental Services Authority (HSY) she is the coordinator of Waste Management’s R&D and also the chairman of the HSY’s research, development and innovation matrix.

**Yuan Jianning  Vice President, Dongda Group, Dalian, China**

Yuan Jianning graduated from Dongbei University of Finance and Economics in 1995 and joined the Dongda Group in 2003. He previously held the position of Chief Financial Officer and is now Vice-President. Mr. Yuan Jianning is also the CEO of the Dalian National Demonstration District of Ecological Industry (Recycling Industry).
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>7:15 am</td>
<td>Roundtable delegates meet MV staff in Atrium of Wosk Centre for travel to Metro Vancouver Head Office</td>
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<tr>
<td>8:00 am - 9:00 am</td>
<td>Breakfast Roundtable on Solid Waste</td>
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<tr>
<td>7:30 am - 8:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:15 am</td>
<td>Bus departs for Metro Vancouver Head Office&lt;br&gt;&lt;em&gt;4330 Kingsway, Burnaby&lt;/em&gt;</td>
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<tr>
<td>9:00 am - 12:15 pm</td>
<td>CONCURRENT WORKSHOP SESSIONS</td>
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<tr>
<td>9:00 am - 10:30 am</td>
<td>ENERGY: Distributed and Renewable Energy Systems&lt;br&gt;WASTE: Behaviour Change – Plans, Strategies and Tactics&lt;br&gt;WATER: Water Conservation</td>
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<tr>
<td>10:30 am - 10:45 am</td>
<td>Break</td>
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<tr>
<td>10:45 am - 12:15 pm</td>
<td>ENERGY: Sustainable Transportation&lt;br&gt;WASTE: Cradle to Cradle Thinking: From Product Design to Reuse&lt;br&gt;WATER: Integrated Water Management</td>
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<tr>
<td>12:15 pm - 1:15 pm</td>
<td>LUNCHEON and PRESENTATION</td>
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<td>2:45 pm - 3:00 pm</td>
<td>Break</td>
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<tr>
<td>3:00 pm - 4:30 pm</td>
<td>PLENARY DISCUSSION:&lt;br&gt;Staying Competitive and Sustainable in a Global Economy</td>
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<tr>
<td>4:30 pm - 4:45 pm</td>
<td>REFLECTION on Conference Themes and Outcomes</td>
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<td>4:45 pm - 5:00 PM</td>
<td>Concluding Remarks</td>
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<tr>
<td>5:00 pm - 6:15 pm</td>
<td>CLOSING RECEPTION — Metro Vancouver Boardroom</td>
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<tr>
<td>5:00 pm - 6:00 pm</td>
<td>Representatives Meeting</td>
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<tr>
<td>6:15 pm</td>
<td>Bus departs for Delta Vancouver Suites Hotel&lt;br&gt;Transportation is available for those travelling directly to the airport</td>
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NOTE: Delegates wishing to participate in this session must register in advance. Separate transportation has been arranged. For those not wishing to participate in the Roundtable, please follow the program as indicated below.

8:00 am - 9:00 am

Breakfast Roundtable on Solid Waste

Solid waste management is a function that falls under the responsibility of local and regional governments throughout the world. However, as long as products are made so that they are difficult to reuse or recycle, municipalities will be burdened by the significant efforts and high costs needed to sustainably manage waste. Metro Vancouver has an interest to convene a global dialogue on the issue of sustainable waste management and, more specifically, to establish a global network of champion cities and metropolitan regions to foster actions that promote the design of products that reflect cradle-to-cradle principles. The purpose of the roundtable is to exchange ideas and assess interest on the part of local governments and others.

7:15 am Roundtable delegates meet MV staff in Atrium of Wosk Centre for travel to Metro Vancouver Head Office

7:30 - 8:00 am Continental Breakfast
Innes Thompson Room,
Delta Vancouver Suites Hotel

8:15 am Bus departs for Metro Vancouver offices
CONCURRENT Workshop Sessions

Case studies and trend analyses will be shared amongst member regions. Participants will discuss proven practices around project implementation, financing, citizen engagement, and more. Participants will leave with the tools, resources and contacts to implement best practices in their own region.

METRO VANCOUVER HEAD OFFICE (TWO BUILDINGS) –

4330 Kingsway, Burnaby (main building)
5945 Kathleen Ave, Burnaby (adjacent building fronting Kathleen Ave)

ENERGY – 2nd floor Boardroom, Metro Vancouver Head Office

Session Moderator: Linda Hepner,
Councillor, City of Surrey and Director, Metro Vancouver Board of Directors

9:00 am – 10:30 am

Distributed and Renewable Energy Systems

- Reetta Anderson, Development Engineer, Helsinki Region Environmental Services Authority
  RESCA project—Renewable Energy Solutions in City Areas
- Sten Grahn, Researcher and Consultant, ÅF Industry AB,
  District Heating and Solar Energy in Stockholm
- Brian Crowe, Assistant City Engineer, Water and Sewers, City of Vancouver,
  False Creek Neighbourhood Energy Utility

10:45 am – 12:15 pm (Break 10:30 - 10:45)

Sustainable Transportation

- Michael Shiffer, Vice-President, Planning & Policy Division, Translink, British Columbia,
  Shaping and Serving: Integrated Transport Planning in Greater Vancouver
- Roland Hoesl, Department of Labour and Economic Development, City of Munich,
  Corporate Mobility Management Scheme
- Àngels Santigosa, Research Director, Economic Promotion, Barcelona City Council,
  Barcelona, Smart City: Electro-Mobility Implementation Plan

12:15 pm - 1:15 pm Luncheon and PRESENTATION
(2nd floor Boardroom, Metro Vancouver Head Office)

1:15 pm – 2:45 pm (Break 2:45 - 3:00)

Working Towards Energy-Wise Targets and GHG Reductions

- Roland Hoesl, Department of Labour and Economic Development, City of Munich, ECOPROFIT
- Alex Boston, Director, Climate Protection and Sustainable Energy, HB Lanarc Golder Associates, Metro Vancouver, Smart and Strategic: Metro Vancouver Energy and Emission Target Setting
- Brian Beck, Project Manager, Sustainability Group, City of Vancouver, City of Vancouver
  Greenhouse Reduction and Climate Change Adaption Initiatives
Linda Hepner – Panel Moderator  
_Councillor, City of Surrey and Director, Metro Vancouver Board of Directors_

Prior to her election to City Council in 2005, Councillor Linda Hepner enjoyed a 20 year career with the City of Surrey and retired as the City’s Manager of Economic Development. Councillor Hepner believes that cities are important job generators and co-chaired the first Surrey Regional Economic Summit. She is a strong supporter of the development of Surrey’s new Transportation Plan and is committed to working for light rail public transit options in traffic corridors. Councillor Hepner has spearheaded the continued economic development of Surrey’s City Centre through the organization of the annual Regional Economic Summit and advancing the Mayor’s Investment Action Plan, the Clean Energy & Technology Action Plan, and has represented Surrey on a regional level through ongoing participation on the Metro Vancouver Board of Directors and five Metro Vancouver committees (Port Cities, Energy & Environment–Vice Chair; Waste, Labour, and Agriculture–Vice Chair).

Reetta Anderson  
_Development Engineer, Helsinki Region Environmental Services Authority_

Reetta Anderson has an M.Sc. in Environmental Engineering from the University of Oulu 2001. She has worked as a Development Engineer for the Finnish Environment Institute with issues considering the environmental geotechnics (e.g. landfills and tailings dams). For the Helsinki Metropolitan Area Council’s Waste Management Department she has worked as a Project Engineer, Development Manager and Development Engineer and has been involved with various research and development projects. In her current position as Development Engineer with the Helsinki Region Environmental Services Authority (HSY) she is the coordinator of Waste Management’s R&D and also the chairman of the HSY’s reseach, development and innovation matrix.

Sten Gran,  
_Consultant, Energy and Systems Analysis ÂF, Division Industry_

Sten Grahn is a Consultant at ÂF Engineering—a leading Swedish environmental and technical consultancy with extensive general expertise within the district heating area. In one of his current assignments, he is working for the office of regional planning in Stockholm to map out regional district heating plans and considerations up until 2030. He is also a board member of the Process Control Group of the Swedish Thermal Engineering Research Institute in Stockholm.

Sten Grahn has several years of experience on various district heating issues. He has held positions with the leading district heating company in Stockholm, Fortum Heat (2006-2009). During the years 2007-2009, he was involved in managing research projects, comparing alternative heat solutions from a cost perspective, participating
in internal development projects and developing the product “climate neutral district heating” at Fortum Heat. In 2006 he was a manager for their division of private home district heating. Sten Grahn holds a PhD from Linköping University.

**Brian Crowe, P.Eng.  Director, Water, Sewers & District Energy  City of Vancouver Engineering Services**

Brian is a senior professional engineer with 28 years of experience with the City of Vancouver. As Director responsible for the City’s drinking water, sewers & drainage, and district energy systems, he oversees 360 professional, technical, and field staff. Throughout his career with the City he has been responsible for planning, design, construction, and maintenance of numerous components of the City’s utility systems. Among his achievements, he led the implementation of the award-winning S.E. False Creek Neighbourhood Energy Utility (NEU). The NEU utilizes sewage heat recovery to produce space heating and domestic hot water, and reduces greenhouse gas emissions by two-thirds compared to traditional systems. He also works extensively in low-carbon district energy planning, resource conservation, green infrastructure, environmental protection, and climate change adaptation.

**Michael Shiffer  Vice President, Planning & Policy, Translink**

Michael Shiffer is Vice President for Planning & Policy at TransLink, where he is responsible for planning activities that support the major roads, bridges, bikeways and public transit networks in the Vancouver region. Dr. Shiffer was formerly Vice President for Planning and Development at the Chicago Transit Authority (CTA). At the CTA, he led the strategic and operations planning efforts of the second largest public transit system in the US. Dr. Shiffer has also held faculty posts at both the MIT Department of Urban Studies and Planning and the College of Urban Planning and Public Affairs at University of Illinois at Chicago. His research has focused on how information technologies can better inform deliberation, decision-making and public debate. Michael earned a Ph.D. in Regional Planning and Master’s of Urban Planning from the University of Illinois at Urbana-Champaign. He also has a B.A. in Geography from DePaul University in Chicago. Finally, he has been qualified and certified to operate trains on Chicago’s rapid transit system.

**Àngels Santigosa  Research Director, Economic Promotion, Barcelona City Council**

Àngels Santigosa is the Research Director at the Economic Promotion area of the Barcelona City Council since 2006. She has worked as an economist at the Barcelona City Council since October 1989, first at the Mayor’s technical programming office (Gabinet Tècnic de Programació) and since 1998 at the Economic Promotion area. She has also worked as lecturer at the Universitat Autònoma de Barcelona and other universities –at undergraduate and postgraduate levels- and issued several publications in the fields of public finance, labour economics and urban economics. She’s a member of different city networks –both national and international- and has participated in a series of international city conferences. She holds an Economics degree taken at the Universitat Autònoma de Barcelona (Spain), and has also earned Master degrees from the University of York (Great Britain) and from Universitat Autònoma de Barcelona, and a Postgraduate degree from Universitat Politècnica de Catalunya.
Roland Hoesl  *Department of Labor and Economic Development, City of Munich*

After finishing his masters degree in economic geography at the Ludwig Maximilians Universitaet Muenchen in 1997 Roland Hoesl worked as an administrative manager for the regional cooperation “Greater Munich Area” and was assistant to the Chairman of the Board. He has been working for the City of Munich, Department of Labor and Economic Development, since 2002. Key activities he is responsible for include mobility management for companies, commercial transport issues and sustainability issues in connection with the local economy. Roland is staff member of the Department’s Economic Policy Unit.

Alex Boston  *Community Climate and Energy Lead, HB Lanarc and Golder Associates*

Alex has advised all levels of government and a wide variety of businesses and non-profits on sustainability with emphasis on climate protection and sustainable energy for communities. Prior to joining HB Lanarc, Alex led national and international climate policy at the David Suzuki Foundation. He has helped numerous communities develop and implement energy and emission management plans, supported the BC Government’s 16 ministries in developing their carbon neutral action plans, provided vulnerability analysis and adaptation guidance for developers and local governments, led research for the Prime Minister’s Task Force on Cities and Communities, designed educational tools for local government associations and utilities, and led change management training programs for public sector organizations.

He works with an interdisciplinary team that has pioneered high impact energy and emission modelling and mapping for communities. His passion for policy innovation is underpinned by pragmatism and a deep understanding of strategic planning, rich engagement, and governance. Alex received an Action Canada Fellowship for policy excellence and earned his MSc at Oxford’s Environmental Change Institute where he was a British Council Scholar.

Brian Beck, P. Eng.  *Climate Program Manager, Sustainability Group, City of Vancouver*

Brian Beck has worked for over 20 years in various engineering and business roles. He started his career at NorTel where he helped build some of the first fiber optic networks in North America, and moved on to develop renewable energy systems with a specialty in clean vehicle technologies. Most recently Brian joined the Sustainability group at the City of Vancouver as the Climate Program Manager to lead greenhouse reduction and climate change adaptation initiatives within the Municipal Operations and more broadly in the community.
CONCURRENT Workshop Sessions

Case studies and trend analyses will be shared amongst member regions. Participants will discuss proven practices around project implementation, financing, citizen engagement, and more. Participants will leave with the tools, resources and contacts to implement best practices in their own region.

METRO VANCOUVER HEAD OFFICE (TWO BUILDINGS) –
4330 Kingsway, Burnaby (main building)
5945 Kathleen Ave, Burnaby (adjacent building fronting Kathleen Ave)

WASTE – 10th floor Conference Centre, 5945 Kathleen Ave

Session Moderator: Wayne Wright, Mayor, City of New Westminster and Director, Metro Vancouver Board of Directors

9:00 am – 10:30 am

Behaviour Change – Plans, Strategies and Tactics
- Greg Moore, Mayor, City of Port Coquitlam, and David Hocking, Division Manager, Metro Vancouver Community Level Behaviour Change
- Karin Pettersson, Development Engineer VAFAB Miljo, Stockholm, The Circle of Life – From Kitchen Waste to Climate Neutral and Sustainable Farming
- John Taylor, Director of Government and Community Relations for CleanScapes, Seattle
  The Clear Alley Program (CAP) – Transforming Seattle’s Urban Lanscape
- Takeo Tashiro, Chief of Facility Section, Environment Bureau, Fukuoka City Government, The Fukuoka Method – Sustainable Solid Waste Management

10:45 am – 12:15 pm  (Break 10:30 - 10:45)

Cradle to Cradle Thinking: From Product Design to Reuse
- David Lawes, Section Head, Industry Product Stewardship, Ministry of Environment, Province of British Columbia, A World Without Waste
- Marc Daudon, Principal, Cascadia Consulting, Seattle, King Country LinkUp Program

12:15 pm - 1:15 pm  Luncheon and PRESENTATION
(2nd floor Boardroom, Metro Vancouver Head Office)

1:15 pm – 2:45 pm  (Break 2:45 - 3:00)

Waste as an Energy Resource
- Mattias Svensson, Project Manager, Biogas East, Malardalen Energy Agency, Stockholm
  Successful Implementation of a Regional Biogas Project
- Reetta Anderson, Development Engineer, Helsinki Region Environmental Services Authority,
  Waste-to-Energy Solutions in Helsinki Region
- Ron Richter, Principal, LR Power Solutions Inc.Former Facility Manager, Metro Vancouver
  WTE Facility, Fitting Waste-to-Energy to Local Energy Needs
Wayne Wright – Panel Moderator

*Mayor, City of New Westminster and Director, Metro Vancouver Board of Directors*

Wayne Wright is a graduate of Windsor’s Teachers’ College. Wayne moved to the United States in 1966 to join a national advertising firm. By 1969, he had joined the International Division of KFC Group and moved to Sydney, Australia, where he instructed management employees in all aspects of company operations. In 1971, Wayne returned to Canada to manage the company’s Canadian operations. In 1976, Wayne moved to New Westminster and quickly established roots in the community, becoming an active volunteer and business owner. For over 30 years, he has been involved with local organizations including the Downtown New Westminster Business Improvement Society, New Westminster Chamber of Commerce, Westminster Club, Simon Fraser Society for Community Living and others. In 2000, Wayne played a central role in the fundraising and construction of the “World’s Largest Tin Soldier”. Later, he wrote and published a children’s book documenting the achievement of this New Westminster landmark, donating all proceeds to local charity. In recognition of his work on behalf of the city, he was named “Citizen of the Year”.

In December 2002, Wayne was elected Mayor of the City of New Westminster. He was re-elected for a third term in November 2008. As Mayor, he is Chair of the New Westminster Police Board and a member of the Electrical Utility Commission. His many other duties on behalf of the City include serving on the Board of Directors for Metro Vancouver and as a member of numerous regional committees. In addition, he currently serves as Chair of the Metro Vancouver Housing Committee, is the regional representative to the Municipal Finance Authority, a member of the Metro Vancouver Committee on Policing Issues, and is an active member of both the TransLink Mayors’ Council on Regional Transportation and the Premier’s Task Force on Homelessness, Mental Illness and Addictions.

Greg Moore  *Mayor, City of Port Coquitlam and Director, Metro Vancouver Board of Directors*

Greg Moore was first elected to Council in November 2002 and re-elected in 2005. In 2008, he was elected as Port Coquitlam’s 15th Mayor. Greg Moore has a Masters in Business Administration (with emphasis in Digital Technology) from Royal Roads University and a Bachelor Degree in Urban Geography/Planning from Simon Fraser University. Mayor Moore is a Director on the Metro Vancouver Board of Directors and Chair of the Metro Vancouver Waste Management Committee.

David Hocking  *Division Manager, Corporate Communications, Metro Vancouver*

David Hocking is the Division Manager of Corporate Communications at Metro Vancouver. He has 30 years experience in corporate communications, in the private sector, public sector and in one of Canada’s national NGOs. He has also worked as a journalist in TV and radio, and taught in public schools. He has an MA in Latin American history.
Karin Pettersson  
**Development Engineer, VafabMiljö Ltd**

VafabMiljö AB is a regional waste management company in Västmanland in Sweden. The company is owned by 12 municipalities in the region, who by cooperating are achieving technical and economical synergetic effects as well as bringing together waste management expertise in company. The role of the company is, apart from treating waste, to work towards creating long term sustainable waste management solutions with great environmental focus. Karin Pettersson works as a development engineer at VafabMiljö. In this role she is working bilaterally with other departments within the company on different development projects such as developing business concepts for hazardous waste and introducing collection of oils and fats from households. Part of Karin’s role is of a more ongoing character such as managing leachate treatment and supporting the municipalities with statistics on waste streams and waste management planning.

For six months Karin has been part of a working group put together to produce the third generation waste management plan for the biggest municipality in the region, Västerås, a plan which aims to set waste goals and action plans for the next four years. Karin is also responsible for covering the interests of VafabMiljö and the waste industry in local planning matters in the region. Karin’s background is in the environmental consultancy business with one degree in Soil Science and one in Land Reclamation and Restoration.

John Taylor  
**Government & Community Affairs Manager, CleanScapes**

John Taylor is the Director of Government and Community Relations for CleanScapes, a Seattle-based solid waste and recycling company. John came to CleanScapes with extensive experience working on public sector policy issues including community development, planning, transportation, and environmental policy. John worked for the consulting firm of Cocker Fennessy, where he provided government relations and communications strategic advice for clients as diverse as the Puget Sound Partnership, Prosperity Partnership, and Lifelong AIDS Alliance. John also served as a policy advisor to the Director of Seattle Public Utilities and Seattle City Council. Prior to moving to Washington State, he served as a senior policy advisor in the Vermont Governor’s office for six years, where he focusing on community development and transportation issues. John holds a BA in Political Science from Hobart College, an MPA from the University of Vermont, and is a graduate of the Kennedy School of Government at Harvard University in the Senior Executives in State and Local Government Program.

Takeo Tashiro  
**Manager, Fukuoka City Government**

Mr. Tashiro graduated from the Faculty of Engineering at Fukuoka in 1982 and entered the Fukuoka City Government in 1982. In April 2004, he was dispatched to the Independent State of Samoa as a JICA expert, returning in 2006. Mr. Tashiro is currently the Manager of Facility Section, Environment Bureau, Fukuoka City Government.
David Lawes  *Section Head, Industry Product Stewardship, Ministry of Environment, Province of British Columbia*

David is Head of Industry Product Stewardship for British Columbia and he manages a group of policy analysts that work to support and develop and administer programs under the BC Recycling Regulation. David also represents the province on the Canadian Council of the Ministers of Environment (CCME) Extended Producer Responsibility Task Group. David holds a degree in Environmental Science from Royal Roads University (RRU) and is part way through the MBA program at RRU.

Marc Daudon  *Principal, Cascadia Consulting Group*

Marc has over 25 years of management consulting experience related to environmental issues, including the fields of sustainability, biodiversity, organics, household hazardous waste, energy, water conservation, climate change, and waste prevention and recycling. Marc manages diverse and complex projects involving research, policy analysis, consensus building and strategy development.

His experience in strategic planning and facilitation empowers organizations and governments both locally and abroad to achieve consensus around environmentally sound and economically viable public policy programs. This experience includes developing a sustainability action plan for Washington State, biodiversity conservation plans for Washington and Tanzania, comprehensive waste management policies for multiple jurisdictions, and national energy plans for Sudan and Pakistan. In addition to strategic planning, Marc’s functional expertise involves developing conservation financing initiatives, conducting market assessments, performing feasibility studies, facilitating stakeholder groups, and implementing and evaluating programs. Marc has an MA in Public and Private Management from Yale University’s School of Management.
**Mattias Svensson, Project Manager, Biogas East, Malardalen Energy Agency**

Mattias Svensson is a Project Manager at Biogas East – a regional project that by promoting collaboration between stakeholders aims to shape favorable regional conditions for more production, improved distribution and increased consumption of biogas. Biogas East started in 2008 and is a non-profitable project which is in part financed by a fee paid by participating organizations and in part by managing biogas related projects. The implemented projects range from market development issues to optimizing biogas distribution to dissemination activities, all which aims to support Biogas East’s main objectives.

Mattias main responsibilities include communication and marketing of biogas as well as arranging network meetings and training courses in the region. Mattias is also tasked to promote a greater allocation of financial resources to the region’s stakeholders and operate development projects which are leading to new markets and new jobs. During the years 2006-2011 he was working at a Swedish energy and environmental company as a business developer for the products biogas, district heating and district cooling. His assignments also included project management within marketing strategies and waste recycling.

He has a Bachelor Degree in Industrial Engineering from the University of Boras and master level studies within international marketing, strategic marketing and sales management.

**Reetta Anderson, Development Engineer, Helsinki Region Environmental Services Authority**

Reetta Anderson has an M.Sc. in Environmental Engineering from the University of Oulu. She has worked as a Development Engineer for the Finnish Environment Institute with issues considering the environmental geotechnics (e.g. landfills and tailings dams). For the Helsinki Metropolitan Area Council’s Waste Management Department she has worked as a Project Engineer, Development Manager and Development Engineer and has been involved with various research and development projects. In her current position as Development Engineer with the Helsinki Region Environmental Services Authority (HSY) she is the coordinator of Waste Management’s R&D and also the chairman of the HSY’s reseach, development and innovation matrix.

**Ron Richter, Principal, LR Power Solutions Inc.**

Ron Richter has over 35 years experience in a wide range of power plant industries. He currently consults on projects relating to power plant operation and management issues. He worked in Waste-to-Energy for 22 years with Montenay Inc. and Covanta at the Metro Vancouver Waste-to-Energy Facility in Burnaby, B.C. and shared the duties of Plant Manager, client and contract relations, and Business Development Canada. A First Class Power Engineer, Ron has extensive knowledge in all areas of technical operation, cost control, safety and management leadership in the waste-to-energy industry.
CONCURRENT Workshop Sessions
Case studies and trend analyses will be shared amongst member regions. Participants will discuss proven practices around project implementation, financing, citizen engagement, and more. Participants will leave with the tools, resources and contacts to implement best practices in their own region.

METRO VANCOUVER HEAD OFFICE (TWO BUILDINGS) –
4330 Kingsway, Burnaby (main building)
5945 Kathleen Ave, Burnaby (adjacent building fronting Kathleen Ave)

WATER – Multi-media Centre, 5945 Kathleen Ave
Session Moderator: Marvin Hunt, Councillor, City of Surrey and Director, Metro Vancouver Board of Directors

9:00 am – 10:30 am
Water Conservation
• Kuniaki Nakamura, Director of Water Administration Section, Water Purification Department of Fukuoka City Waterworks Bureau, Water-Conscious City Initiative
• Richard Allegretto, Operations Utility Engineer, City of Surrey, Surrey Water Conservation Efforts

10:45 am – 12:15 pm (Break 10:30 - 10:45)
Integrated Water Management
• Albert van Roodselaar, Utility Analysis and Environment Division Manager, Metro Vancouver, Integrated Water Planning and Implementation in Metro Vancouver
• Pam Elardo, Interim Director, King County Wastewater Treatment Division, Washington Department of Natural Resources and Parks, Duwamish River Clean-up
• James M. Miller, Director, Strategic Business Investments, Vancity Group, Victoria-Dockside Green

12:15 pm - 1:15 pm Luncheon and PRESENTATION
(2nd floor Boardroom, Metro Vancouver Head Office)

1:15 pm – 2:45 pm (Break 2:45 - 3:00)
Enhancing Water Quality
• Carrie Baron, Drainage and Environment Manager, Engineering Department, City of Surrey, Metro Vancouver, Integration of Low Impact Development (LID) Practices to Achieve Water Quality Benefits
• Clare Petrich, Commissioner, Port of Tacoma, Seattle, Urban Waters Initiative
• Dr. Patricia Daly, Chief Medical Health Officer and the Vice President, Public Health for Vancouver Coastal Health
Marvin Hunt – Panel Moderator
Councillor, City of Surrey and
Director, Metro Vancouver Board of Directors

Councillor Marvin Hunt has been a Councillor for the City of Surrey for over 21 years. Councillor Hunt prioritizes public safety, transit and transportation, financially sustainable development and growth, as well as attracting businesses and new jobs. He chairs Surrey’s Intergovernmental Committee and is particularly involved in transportation and agricultural issues, waste management planning and recycling initiatives in Surrey and throughout the Lower Mainland. At Metro Vancouver, he is Vice Chair of the Water Committee and a member of the Parks Committee and Finance Committee. As a Director at the Federation of Canadian Municipalities, he is a member of the Standing Committee on International Relations as well as the Environmental Issues and Sustainable Development Committee. In addition, he is the Board Member representing the Americas on the Commonwealth Local Government Forum (CLGF). Councillor Hunt is Past President of the Union of BC Municipalities (UBCM) and Past President of the Lower Mainland Local Government Association (LMLGA).

Kuniaki Nakamura  Director, Fukuoka City Government

Mr. Nakamura graduated from the Graduate School of Kyusyu Institute of Technology in 1980 majoring in hydraulic civil engineering. Mr. Nakamura is currently the Director of the Water Administration Section.

Pam Elardo  Interim Director, King County Wastewater Treatment Division

Pam Elardo was recently selected to serve as interim director of King County’s Wastewater Treatment Division (WTD). Pam most recently served as manager of the West Point Treatment Plant, which is the largest wet weather treatment facility on the West Coast. Prior to that, she oversaw the division’s Asset Management Program and worked in the division’s Capital Program as a supervisor of the Permitting and Right-of-Way group during the planning and design of the Brightwater Project. Before coming to King County, Pam worked with the Washington State Department of Ecology for 14 years. In addition to her educational credentials, which include master’s degree in environmental engineering as well as a bachelor’s degree in chemical engineering, Pam is a licensed Professional Engineer (PE) in the state of Washington and holds certification as a Group IV Wastewater Treatment Plant Operator.
James M. Miller, Director of Strategic Business Investments, Vancity,
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.

Albert van Roodselaar Division Manager, Metro Vancouver
Albert van Roodselaar is a registered professional engineer with over thirty years of experience in the utility and environmental engineering fields. He has a Bachelors Degree and a Ph.D. from the University of Alberta. Prior to joining Metro Vancouver, he had managed a large Drinking Water Treatment Facility, undertaken applied research in the civil and environmental technology areas, served with a quasi-judicial regulatory Board, and worked for an international forestry company. Albert van Roodselaar started with Metro Vancouver in 2000 as a Senior Engineer. In 2005, he became the Division Manager for Utility Analysis and Environmental Management. Albert van Roodselaar is currently the Division Manager for Utility Planning and Environmental Management in the Utility Planning Department.

Carrie Baron Drainage and Environment Manager, Engineering department, City of Surrey
Carrie Baron is a professional engineer with over 26 years of experience in municipal, water resources and environmental engineering. She is the Drainage & Environment Manager for the City of Surrey whose responsibilities include: overseeing the function of the natural and manmade drainage systems; environmental & drainage planning initiatives; erosion & sediment control; spill investigation; and environmental education within Surrey.

Clare Petrich Commissioner Port of Tacoma
A Port Commissioner since 1995, Clare Petrich is a graduate of Manhattanville College, New York, and received a master’s degree from the University of Virginia. A small business owner, Petrich serves on the Joint Municipal Action Committee, the Local Emergency Planning Committee, and the boards of the Tacoma-Pierce County Economic Development Board and the Puyallup River Task Force. She is also the president of the Puget Sound Regional Council’s Economic Development District Board and secretary for the Trade Development Alliance of Greater Seattle. A co-founder and chair of the Commencement Bay Maritime Fest, Petrich is currently deeply involved in maritime heritage research.

Patricia Daly Chief Medical Health Officer and Vice President, Public Health for Vancouver Coastal Health
Dr. Daly is the Vice President, Public Health and Chief Medical Health Officer for Vancouver Coastal Health in Vancouver, British Columbia, Canada and is a Clinical Professor in the Faculty of Medicine at the University of British Columbia. She is responsible for communicable disease control, health protection, community care facilities licensing, population health, travel clinic, aboriginal health strategic initiatives and public health surveillance within Vancouver Coastal Health.
Gordon Harris is President and CEO of Simon Fraser University Community Trust, responsible for the development of UniverCity, the award-winning, sustainable urban community on Burnaby Mountain near Vancouver.

Harris started his career as an urban planner with the Province of Alberta before moving into institutional and retail real estate (on behalf of CIBC, TD Bank, and Cambridge Shopping Centres). In 1988, he established an evolving independent consulting practice and for the next two decades provided urban land planning services, market intelligence and economic analysis to public and private sector clients across Canada and internationally, in China, the United Arab Emirates, Saudi Arabia, Bosnia, Montenegro, and Guatemala.

Mr. Harris’s professional affiliations include the Canadian Institute of Planners, the Planning Institute of British Columbia, the Canadian Urban Institute, the Urban Land Institute, the Urban Development Institute, and Lambda Alpha International. He also sits on the board of the British Columbia Arts Council and the National Capital Commission Advisory Committee on Planning, Design, and Realty, and is a contributing editor for the Ontario Planning Journal. A popular guest lecturer on urban development, planning and economic analysis (including at the universities of B.C., Simon Fraser and McGill), Mr. Harris received a BA in Urban Geography from the University of Alberta in 1980.
Staying Competitive and Sustainable in a Global Economy

Local governments and private enterprises are feeling the pressure to apply sustainability principles in the design and delivery of services and products. From waste management planning and practice, to innovation in energy supply; from green infrastructure implementation to new mobility choices, the cost of making sustainability the right choice can seem prohibitive. Or is it? Where can making the sustainability choice better serve the bottom line? How can the design and development of sustainable cities give these urban centres a clear competitive advantage in a global economy? What opportunities exist to best mesh economic development with sustainability imperatives in water, waste and energy?

Session Moderator:
- Judy Villeneuve, Councillor, City of Surrey and Director, Metro Vancouver Board of Directors

Panellists:
- Enric Auli, Director of Environmental Action Programs, Barcelona City Hall, and Associate Professor at the EPSEB (Building School)
- Tatu Laurila, CEO, Greater Helsinki Promotion
- Bert Gregory, Chairman & CEO, Mithun Seattle/San Francisco
- Roland Engkvist, Project Manager, Regional Development, Council for the Stockholm Mälar Region
- Sadhu Johnston, Deputy City Manager, City of Vancouver
On Surrey City Council for 20 years, Councillor Villeneuve holds the Social Planning and Housing Portfolio. As Chair of the Social Planning Committee, Judy provided leadership in establishing an Affordable Housing Reserve Fund, Social Planning and Youth Recognition Awards, a relevant Multicultural Policy and community discussions on health care issues. She spearheaded the drive to create a Social Plan for Surrey. Currently, she is Chair of Surrey’s new Homelessness and Housing Society. She also serves on regional and national housing boards.

An avid advocate for the arts, Judy spearheaded Surrey’s Public Art Policy, participated in developing a Cultural Plan for the City and chaired the Union of BC Municipalities (UBCM) Cultural Committee. She currently serves as the Council liaison to the Public Art Advisory Committee and is on the Mayor’s Committee on Arts and Culture as well as the 2008 Cultural Capitals of Canada Program in the City of Surrey.

Councillor Villeneuve is known as a fiscally responsible and accountable Councillor with a heart. She continues to speak up about the need for social planning in the City. Her goal to establish a Surrey Homelessness and Housing Foundation and Society was accomplished in 2008. She is the recipient of the Surrey Leader’s “Community Builder” Award for her extensive work in this City.
Enric Auli  Director of Environmental Action Programs, Barcelona City Hall, and Associate Professor at the EPSEB (Building School)
Dr. Enric Auli has worked in both the public and private sectors. He was the Managing Director of Environmental Services for the construction company HABITAT, SA. He was formerly the CEO of RWE UMWELT Services España. Dr. Auli was also a private consultant in the Department of the Environment of Schiller Solicitors, S.C.; and was also in the position of General Secretary of the Department of Environment of Catalunya, Spain.

Tatu Laurila  CEO, Greater Helsinki Promotion
Tatu Laurila started as a CEO of Greater Helsinki Promotion (GHP) in 2007. GHP is the international business promotion agency for the Greater Helsinki area. GHP is owned by the four metropolitan cities and Helsinki-Uusimaa Regional Council. Mr. Laurila is in charge of the GHP mission to deliver knowledge intensive strategic investments in to the region. Before GHP Mr. Laurila was a Deputy Managing Director at Culminatum Innovation which is the development agency of Greater Helsinki. There Mr. Laurila was in charge of the Innovation Management team which facilitated the first regional Innovation Strategy for Greater Helsinki in 2005. Before that Mr. Laurila worked with research based innovations’ commercialisation. Mr. Laurila holds a Master’s Degree from the faculty of Social Sciences at the University of Helsinki.

Bert Gregory FAIA,  Chairman & CEO, Mithun Seattle/San Francisco
As Chairman and CEO of Mithun, Bert Gregory, FAIA, leads an interdisciplinary practice of architects, urban designers, interior designers, landscape architects and ecologists, dedicated to setting new, achievable standards for sustainable design. He is an expert in the development of resource-efficient structures and communities, and serves as a national leader, speaker and advocate for sustainable building and urbanism. His perspective reaches beyond traditional architecture to merge science and design—an interdisciplinary approach that creates lasting places for people. With Mithun’s offices in Seattle and San Francisco, he has transformed the 60-year old regional architecture and planning firm into a national force inspiring a sustainable world through integrated design. Currently, Bert is Co-Chair of the Urban Land Institute’s Climate, Land Use and Energy Advisory Group; serves on the Washington Governor’s Clean Energy Leadership Council and the Clinton Climate Initiative’s Climate Positive Program’s Technical Resource Group; and is an Advisor to the National Building Museum’s Intelligent Cities Initiative. For the past two years, he served as Vice Chair of the U.S. Green Building Council’s LEED® for Neighborhood Development (LEED-ND) core committee.
Roland Engkvist  Project Manager, Regional Development, Council for the Stockholm Mälar Region

Roland Engkvist is a project manager at the Council for the Stockholm Mälar region, an association for municipalities and county councils aiming at strengthening the region’s competitiveness through regional cooperation among members, representatives of the academic and business communities.

Roland Engkvist has several years experience on strategic integrated regional planning and development with a special focus on economic strategies. He has a bachelor degree in economics from the University of Lund.

Sadhu Johnston  Deputy City Manager, City of Vancouver

As Deputy City Manager, Sadhu contributes to the overall management of the City of Vancouver. Sadhu oversees the environmental, emergency, and economic development areas within the City Manager’s Office. Prior to moving to Vancouver, Sadhu served as Mayor Richard M. Daley’s Chief Environmental Officer responsible for the City of Chicago environmental initiatives and was involved in the development and implementation of: the Chicago Climate Change Action Plan; the City’s blue cart recycling system; and the creation and oversight of green jobs strategy for Chicago. Sadhu played a leadership role in the oversight of program to engage Chicago’s businesses and residents such as Earth Hour, Green Hotels, the Green Office Challenge, GreenWorks Awards, and also served as the Commissioner of the City of Chicago’s Department of Environment (DOE). Prior to working for the City of Chicago, Sadhu served as the Executive Director of the Cleveland Green Building Coalition.
Johnny is the Commissioner and Chief Administrative Officer for Metro Vancouver (formerly Greater Vancouver Regional District) in British Columbia, Canada. Metro Vancouver is effectively the regional governing body for the metropolitan area containing about 2.3 million people with responsibilities for the regional utilities (Water, Sewerage and Drainage and Solid Waste) and regional growth management, air quality, regional parks and affordable housing.

Johnny studied geography, planning, statistics and philosophy at the universities of Bristol (UK), Waterloo and Toronto. His career began in the UK in the 1960’s and he has over thirty-eight years experience in Canadian local government including senior positions in Toronto, the City of Vancouver, the City of Surrey, and the City of Richmond, where he was the City Manager.

After taking up the Metro Vancouver Commissioner position in 1997, Johnny became an influential voice in the sustainability movement, launching the Sustainable Region Initiative (SRI) in 2001. The ‘SRI’ came to define Metro Vancouver and be one of the catalysts in making the sustainability movement a practical fact of political life in the Greater Vancouver region. Projects undertaken under its umbrella have received numerous Provincial, national and international awards.
CONCLUDING REMARKS

4:45 pm – 5:00 pm
Metro Vancouver Boardroom

LOIS E. JACKSON
Chair, Metro Vancouver
Board of Directors

PEKKA SAURI
Deputy Mayor
(Environmental Affairs)
City of Helsinki

5:00 pm – 6:15 pm
Metro Vancouver Boardroom/ Directors’ Lounge
Closing Reception

5:00 pm – 6:00 pm
Metro Vancouver, 17th Floor Boardroom
Representatives Meeting

6:15 pm
Bus departs for Delta Vancouver Suites Hotel.
Transportation is available for those travelling
directly to the airport

CONFERENCE PARTNERS

TRANS LINK

TURNING POINT
Distinctive Beers, Handcrafted Sustainably
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<th>Name</th>
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<tr>
<td>Reetta Anderson</td>
<td>Developmental Engineer, Helsinki Region Environmental Services Authority, Helsinki</td>
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<td>Enric Auli Mellado</td>
<td>Director, Environmental Intervention, Barcelona City Council, Barcelona</td>
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<td>Carrie Baron</td>
<td>Manager, Drainage and Environment, City of Surrey, Metro Vancouver</td>
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<td>Brian Beck</td>
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<td>Alex Boston</td>
<td>Director, Climate Protection &amp; Sustainable Energy, HB Lanarc Golder Associates, Metro Vancouver</td>
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<td>Malcolm Brodie</td>
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<td>Lambert Chu</td>
<td>Director, Engineering, City of Burnaby, Metro Vancouver</td>
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<td>Dr. Stewart J. Cohen</td>
<td>Senior Researcher, Adaptation &amp; Impacts Research Section, Environment Canada, Metro Vancouver</td>
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<td>Derek Corrigan</td>
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<td>Barry Davis</td>
<td>Deputy Director, Public Works, City of Burnaby, Metro Vancouver</td>
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<td>Sav Dhaliwal</td>
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<td>Dipak Dittani</td>
<td>Assistant Director, Engineering/Environment, City of Burnaby, Metro Vancouver</td>
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<td>Alvin Epp</td>
<td>Board Director, Abbotsford Chamber of Commerce, Metro Vancouver</td>
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<td>Mark Erdman</td>
<td>Program Manager, Government Relations, Translink, Metro Vancouver</td>
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<td>Libby Ferguson</td>
<td>Government Liaison, State Government of Victoria, Melbourne</td>
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<td>Daisy Foster</td>
<td>Chief Executive Officer, BC Water &amp; Waste Association, Metro Vancouver</td>
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<td>Peter Frinton</td>
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<td>Lyndsay Fromme</td>
<td>Puget Sound Regional Council, Seattle</td>
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<td>Tim Gallagher</td>
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<td>Taichi Goto</td>
<td>Director General, Fukuoka Directive Council, Fukuoka</td>
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<td>Sten Grahn</td>
<td>Researcher and Consultant, AF Industry AB, Seattle</td>
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<td>Bert Gregory</td>
<td>President and Chief Executive Officer, Mithun Seattle/San Francisco , Seattle</td>
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<td>Kim Grout</td>
<td>Deputy Chief Administrative Officer, District of Pitt Meadows, Metro Vancouver</td>
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<td>Maria Harris</td>
<td>Representative, Electoral District “A”, Metro Vancouver</td>
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CONFEREE ATTENDEES LIST

Gordon Harris, Chief Executive Officer, Simon Fraser University Community Trust, Keynote

Helene Hellmark Knutsson, Chairwoman, Council for the Stockholm Mälar Region, Stockholm

Linda Hepner, Councillor, City of Surrey, Metro Vancouver

Roland Hoesl, Department of Labor and Economic Development, City of Munich

Marvin Hunt, Councillor, City of Surrey, Metro Vancouver

Hiroe Imamura, International Economic Affairs Dept./Economic Promotion Bureau, Fukuoka City Government, Fukuoka

Lois Jackson, Mayor, Corporation of Delta, Metro Vancouver

Yuan Jianning, Vice President, Dongda Group, Dalian, China

Sadhu Johnston, Deputy City Manager, City of Vancouver, Metro Vancouver

Colleen Jordan, Councillor, City of Burnaby, Metro Vancouver

Sam Kaplan, President, Trade Development Alliance of Seattle, Seattle

Lisa Komonen, Advisor, International Relations, City of Helsinki, Helsinki

Delia Laglagaron, Deputy Chief Administrative Officer, Metro Vancouver

Tatu Laurila, Chief Executive Officer, Helsinki Promotion Bureau, Helsinki

David Lawes, Section Head, Industry Product Stewardship, BC Ministry of Environment, Metro Vancouver

Lui Linlin, Dongda Group, Dalian, China

Anna Lundgren, General Secretary, Council for the Stockholm/Mälar Region, Stockholm

Joan Marrull, Director, Department of Sustainability, Institut D’estudis R. I Metropolitan BCN, Barcelona

Gayle Martin, Councillor, City of Langley, Metro Vancouver

Miyuki Matsuda Maori, Partner, Fukuoka Directive Council, Fukuoka

Dr. Donald Mavinic, Civil Engineering Professor, University of British Columbia, Metro Vancouver

James Miller, Director of Strategic Business Investments, Vancity

Jane McRae, Chief Executive Officer, Sustainable Cities International, Metro Vancouver

Lord Andrew Montague, Mayor, City of Dublin, Dublin

Greg Moore, Mayor, City of Port Coquitlam, Metro Vancouver

Darrell Mussatto, Mayor, City of North Vancouver, Metro Vancouver

Kuniaki Nakamura, Director, Water Administration Sct, Water Purification Dept, Fukuoka City Government, Fukuoka

Dr. Toshiyasu Noda, Director, Regional Office for Asia and Pacific, UN-Human Settlements Programme, Fukuoka

Gil Peñalosa, Executive Director, 8-80 Cities

Clare Petrich, Commissioner, Port of Tacoma, Seattle

Karin Pettersson, Development Engineer, Vafab Miljö AB, Stockholm

Gordon Price, Director, Simon Fraser University City Program, Metro Vancouver

Dennis Ranahan, Division Manager, Solid Waste & Business Modelling, Metro Vancouver

2011 International Regions Benchmarking Consortium (IRBC)
CONFERENCE ATTENDEES LIST

J. Thomas Ranken, President and Chief Executive Officer, Washington Clean Technology Alliance, Seattle
Ron Richter, Principal, LR Power Solutions Inc., Metro Vancouver
Marja-LEena RinKieneva, Director, Office of Economic Development, City of Helsinki, Helsinki
Ann Rowan, Sustainability Strategist, Metro Vancouver
Mark Rowlands, Waste Management Team Leader, EBA, A Tetra Tech Company,
Tsuyoshi Sakamoto, President, Kyushu TLO Company Limited, Fukuoka
Shirley Samujh, Senior Municipal Advisor, Government Relations, Translink, Metro Vancouver
Angels Santigosa, Research Manager, Economic Promotion, Barcelona City Council, Barcelona
Pekka Sauri, Deputy Mayor, Environmental Affairs, City of Helsinki, Helsinki
Heather Schoemaker, Corporate Relations Department Manager, Metro Vancouver
Dr. Michael Shiffer, Vice President, Planning and Policy, Translink, Metro Vancouver
Kiyotaka Shigeoka, Chief, Management and Planning Sct, General Affairs Dept, Fukuoka City Government, Fukuoka
Kenichi Shigyo, Planning and Coordination Dept, General Affairs & Planning, Fukuoka City Government, Fukuoka
Tamara Shulman, Environmental Planning And Consultation Specialist, EBA, A Tetra Tech Company, Metro Vancouver
Bill Stafford, Senior Advisor, Trade Development Alliance of Seattle, Seattle
Len Stein, President, BC Water & Waste Association, Metro Vancouver
Tim Stevenson, Councillor, City of Vancouver, Metro Vancouver
Richard Stewart, Mayor, City of Coquitlam, Metro Vancouver
Mattias Svensson, Project Manager, Malárdalen Energy Agency, Stockholm
Soichiro Takashima, Mayor, Fukuoka City Government, Fukuoka
Sam Takashima, Executive Director, International Economic Affairs, Fukuoka City Government, Fukuoka
Takeo Tashiro, Manager, Facility Dept, Environmental Bureau, Fukuoka City Government, Fukuoka
John Taylor, Manager, Government and Community Affairs, Cleanscapes, Seattle
Bing Thom, Principal, Bing Thom Architects, Keynote
Ken Tollstam, City Manager, City of North Vancouver, Metro Vancouver
Masashi Tomita, Assistant Director, International Economic Affairs, Fukuoka City Government, Fukuoka
Albert van Roodselaar, Division Manager, Utility and Environment, Metro Vancouver
Benita Vikström, Former Mayor of Oxelösund, Regional Association of the Sörmland, Stockholm
Judy Villeneuve, Councillor, City of Surrey, Metro Vancouver
Richard Walton, Mayor, District of North Vancouver, Metro Vancouver
Wayne Wright, Mayor, City of New Westminster, Metro Vancouver
Hiroto Yasuura, Executive Vice President and Professor, Kyushu University, Fukuoka
ABOUT Metro Vancouver

Metro Vancouver comprises 22 municipalities, one electoral area, and one treaty First Nation.

Vision

Metro Vancouver seeks to achieve what humanity aspires to on a global basis – the highest quality of life embracing cultural vitality, economic prosperity, social justice and compassion, all nurtured in and by a beautiful and healthy natural environment.

We will achieve this vision by embracing and applying the principles of sustainability, not least of which is an unshakeable commitment to the well-being of current and future generations and the health of our planet, in everything we do.

As we share our efforts in achieving this vision, we are confident that the inspiration and mutual learning we gain will become vital ingredients in our hopes for a sustainable common future.

3 Roles

Political Forum - Metro Vancouver serves as the main political forum for discussion of significant community issues at the regional level. It acts as a facilitator, convenor, partner, advocate and a significant conduit for information and education to the community.

Policy - Metro Vancouver’s main areas of planning and regulatory responsibility are: regional growth, utilities, air quality, and parks. The Board also carries out strategies on other issues best dealt with at a regional level.

Services - Metro Vancouver’s services, provided principally to municipalities, are: drinking water, sewerage and drainage, and solid waste management. Significant services provided directly to the public include regional parks and affordable housing.

Metro Vancouver’s Sustainability Framework outlines: a vision for the region and the mission, values, sustainability imperatives, and sustainability principles for the organization.

Each year, Metro Vancouver prepares an Action Plan for the organization’s work in the year ahead. This document lays out goals for 16 different strategic priorities, measurable targets and key deliverables for 2011, and a brief summary of progress in 2010.