



GREENJOBSBC

BUILDING A GREEN ECONOMY

Forum: Retrofits & Building - Friday, February 10th, 2012

AGENDA

| | | | | |
|---------------|---|--|---|--|
| 9:00am | WELCOME | | | |
| 9:10-9:45am | Opening Plenary | | | |
| | CASE STUDIES – ROUND 1 | | | |
| | Denman Room | Pacific Room | Beach Room | Nelson Room |
| 10:00-11:00am | T'Sou-ke First Nations Community Solar: <i>Beyond Power Generation</i> | Deconstruction: <i>Breaking Down Waste & Building Futures</i> | Pipes Need Jackets Too: Mechanical <i>Insulation to Improve Building Performance</i> | Clean Energy Works Oregon: Catalyzing the <i>Home Energy Efficiency Retrofit Industry</i> |
| 11:00-11:15am | BREAK | | | |
| | CASE STUDIES – ROUND 2 | | | |
| | Denman Room | Pacific Room | Beach Room | Nelson Room |
| 11:15-12:15pm | T'Sou-ke First Nations Community Solar: <i>Beyond Power Generation</i> | Deconstruction: <i>Breaking Down Waste & Building Futures</i> | Pipes Need Jackets Too: Mechanical <i>Insulation to Improve Building Performance</i> | Clean Energy Works Oregon: Catalyzing the <i>Home Energy Efficiency Retrofit Industry</i> |
| 12:15-1:45pm | LUNCH & NETWORKING | | | |
| | WORKSHOPS | | | |
| | Denman Room | Pacific Room | Beach Room | Nelson Room |
| 1:45 -3:45pm | Training & Education | Financing Solutions | Standards & Certifications | Policy & Community |
| 3:45-4:00pm | BREAK | | | |
| 4:00-4:30pm | Closing Plenary | | | |

Opening Plenary

Jordan Fisher, *Program Director, FRESCO*

Juvarya Warsi, *Economic Strategist, Vancouver Economic Commission*

Lee Loftus, *International Association of Heat & Frost Insulators & Allied Workers, Local 118*

Thomas Mueller, *President & CEO, Canadian Green Building Council*

Morning Case Studies

Clean Energy Works Oregon: Catalyzing the Home Energy Efficiency Retrofit Industry

Clean Energy Works Oregon is a non-profit organization that offers consumers a one-stop home energy remodel program that comes complete with qualified contractors, attractive financing, instant rebates, service and quality assurance. Kelly Haines is the Workforce Specialist for Clean Energy Works Oregon and will give an overview of CEWO as well as describe ongoing lessons learned of the program. Barbara Byrd is the Secretary-Treasurer of the Oregon AFL-CIO and will discuss stakeholder engagement in the program, focusing on labour and community efforts to insert "high road" wage, benefit and training standards into the operating agreement

Kelly Haines, *Workforce Specialist, Clean Energy Works Oregon*

Barbara Byrd, *Secretary-Treasurer, Oregon AFL-CIO*

Pipes Need Jackets Too: Mechanical Insulation to Improve Building Performance

There is significant potential for greenhouse gas reductions and millions of dollars in savings for building owners/operators through the addition and proper installation of insulation on heating and cooling system pipes and ducts. No longer satisfied hidden behind walls, mechanical insulation is ready to play a leading role in energy efficiency retrofits. Lee Loftus, Business Manager of the BC Heat and Frost Insulators, Micah Lang, Planner in Energy & Resources at HB Lanarc, and Andre Pachon, owner C&G Insulation, will discuss: what mechanical insulation is and how is it related to reducing GHG emissions, the need for a "Retrofit" campaign involving a diversity of industry and institutional actors, the potential for energy and GHG saving with these retrofits, the costs associated with mechanical insulation retrofits and new construction, and new areas for green job development.

Micah Lang, *Planner - Energy & Resources, HB Lanark*
Andre Pachon, *Owner, C&G Insulation*

Lee Loftus, *Business Manager, BC Heat & Frost Insulators*

Deconstruction: Breaking Down Waste & Building Futures

Pacific Community Resources recently completed a pilot project in partnership with the City of Vancouver and Service Canada to deconstruct two Vancouver homes and train 20 at-risk youth in an intensive life and employability skills program. 93% of the materials from the deconstructed homes avoided incineration or the landfill. Michel Pouliot will provide an overview of the current and future opportunities this industry presents for at-risk youth and not for profit organizations. Michel will present with Pauline Dan who measured the environmental impact of the deconstruction pilots and conducted a detailed analysis of the opportunities and challenges for the deconstruction industry. Barry Joneson will provide hands on knowledge and feedback on the industry and will speak to the realities facing those attempting to make a living deconstruction homes.

Michel Pouliot, *Manager of Youth Services, Pacific Community Resources Society*

Barry Joneson, *Owner, Pacific Labour & Demolition*

Pauline Dan, *MBA candidate, Simon Fraser University*

T'Sou-ke First Nations Community Solar: Beyond Power Generation

The "most solar power intensive community" in British Columbia, the T'Sou-ke First Nations community has reduced their electricity consumption by 30% and has a total capacity of 75 kilowatts of energy. Embarking on a five year plan to phase out their dependence on fossil fuels, the community is seeing the benefits of becoming a leader in renewable energy. Project Manager, Andrew Moore, will share the vision and implementation of the T'Sou-ke Nation Solar Project, and highlight the training opportunities, economic development, policy, and the impact the project has had in the community

Andrew Moore, *Project Manager, T'Sou-ke Nation Solar Installation Project*

Afternoon Workshops

Workshop: Training & Education

Building a workforce will be a key factor in scaling up retrofits, weatherization, and green building across the province. We will hear from panellists on gaps in education and training in this emerging sector, possible solutions or models of apprenticeship and training that could be successful, and the potential to meet the growing demand for trained workers. Following the panel will be a facilitated dialogue and question and answer period.

Wayne Peppard, *Labour Consultant*
Ross Gentleman, *Executive Director, TradeWorks*
Deena Boeck, *Associate Director of Life and Career Programs, UBC Continuing Studies*

Workshop: Policy & Community

This workshop will speak to how shifting key policies can lead to green job creation and environmental benefit (ex. demolition vs deconstruction), what gaps or areas of policy change hold the most potential for influencing development in this sector of green jobs, and how community engagement and social justice play into shaping green jobs. Following the panel will be a facilitated dialogue and question and answer period.

John Calvert, *Associate Professor, Simon Fraser University*
Marc Lee, *Senior Economist, Canadian Centre for Policy Alternatives*
Hurrian Peyman, *Climate Policy Analyst, BC Climate Action Secretariat*
Kira Gerwing, *Planner - Downtown Eastside Neighbourhoods Group Central Area Planning, City of Vancouver*

Workshop: Financing Solutions

Join this dynamic panel to explore solutions to financing retrofit projects at municipal and provincial levels. Panellists will discuss innovative financing opportunities, successful programs, or key ways to move forward policies to influence affordable financing solutions for green jobs development. Following the panel will be a facilitated dialogue and question and answer period.

Robert Duffy, *Research Analyst, Columbia Institute*
Maureen Cureton, *Green Business Manager, Vancity Credit Union*
Claire Beckstead, *Technical and Policy Advisor, Sustainable Communities Group, Pembina Institute*
Rachel Moscovich, *Green Building Planner, City of Vancouver*

Workshop: Standards & Certifications

This workshop will discuss where standards & certification bodies play a positive role in the growth of the retrofits and green building sectors, potential places for collaboration between bodies, and potential solutions to provide certification in these new sectors or address other gaps. Following the panel will be a facilitated dialogue and question and answer period.

Doug Podetz, *Director Program Standards, BC Industry Training Authority*
Emilie K. Adin, *City Planner, City of North Vancouver*
George Ingham, *President, United Power Ltd.*
Brenda Martens, *Principal, Recollective*

Speaker Biographies

OPENING PLENARY

Jordan Fisher, LEED® AP, Program Director, FRESCo



Jordan Fisher is the program director for FRESCo, a company that helps building owners and managers through the process of planning and implementing green building retrofits. He is currently leading a program in the City of Vancouver targeting improvements to over a million square feet of multi-family buildings that will improve energy and water efficiency, reduce operating costs, and generate local employment.

Jordan has a diverse background having worked as a green development planner and project manager, cost consultant, facilitator, and community energy and emissions planner. He has played a key role in the planning of several billion dollars worth of green development that incorporates significant renewable energy and efficiency commitments. Jordan was a member of the US Green Building Council's LEED® ND Pilot Focus Group and was involved in the Canadian review of the preliminary US LEED® ND standards. He has initiated a number of green programs for the industry including the development of a

LEED® study group for building professionals as well as seminars for product suppliers and manufacturers. He is a co-founder and past Chair of the Vancouver Island Branch of the Green Building Council, a past board member of the BC Sustainability Energy Association, member of the Mayor's Task Force on Energy and Economic Development in the City of Colwood, and a member of Pearson College's Building and Grounds Committee & Sustainable Site Management Planning team.

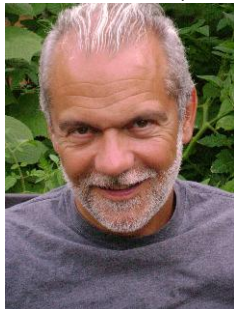
Lee Loftus, International Association of Heat & Frost Insulators & Allied Workers, Local 118



Lee is President of the BC and Yukon Territory Building and Construction Trades Council. He is also Business Manager for the International Association of Heat & Frost Insulators & Allied Workers Local 118, Administrator for the Insulation Industry Apprenticeship Board.

Mr. Loftus stated his construction in Northern BC in 1976 that includes experience in Industrial, shipbuilding, commercial and institutional construction. Mr. Loftus has significant knowledge and experience with building codes, fire codes and procurement practices as they relate to mechanical insulation. Mr. Loftus launched a number of campaigns to revitalize the local union, its members and the market share focused on the benefits of mechanical insulation, energy conservation and green house gas reduction.

Thomas Mueller, President & CEO, Canadian Green Building Council



Thomas Mueller is a Founding Director of the Canada Green Building Council (CaGBC) and became President & CEO of the Council in 2005. In this role, he leads Council sustainability efforts to transform the building and real estate industry in Canada.

Prior to 2005 Thomas chaired the LEED BC Steering Committee, a partnership of local and provincial government agencies and utilities, which was responsible for the first adaptation of the LEED building rating system outside the U.S. He also chaired the Vancouver Chapter of the CaGBC from 2002-2005 and is a past Board member of the Cascadia Green Building Council.

He is a member of the Board of Directors of the World Green Building Council (WGBC); and the Green Building Certification Institute; and, a frequent contributor to government and industry consultations, conferences and award programs on green buildings and sustainable communities.

He is currently participating in the LEED International Roundtable, the World GBC Americas Network; the City of Vancouver Green Building Advisory Committee and is contributing to Quality Urban Systems of Tomorrow (Quest) led by the Canadian Gas Association; and the Dean's Advisory Committee, Faculty of Environmental Studies University of Waterloo.

Juvarya Warsi, Economic Strategist, Vancouver Economic Commission



Juvarya is a versatile sustainability strategist with a focus on green buildings and economic development. She brings 10+ years' direct experience in strategic planning, business case analysis and stakeholder engagement. In her role as Economic Strategist with Vancouver Economic Commission she furthers the City of Vancouver's Green Capital goals and has developed Vancouver's green economy action plan. Previously at Light House Sustainable Building Centre, she worked to develop green building strategies for a range of public and private sector clients.

Juvarya has a demonstrated ability to develop, prioritize and propose complex organizational strategies built on solid technical analysis and key performance indicators. She brings exceptional analysis and problem solving skills with a capacity to present complex information in an engaging and easily understood format. Students in her Sustainability Policy seminar at Kwantlen University Polytechnic particularly appreciate this characteristic.

Juvarya's formal education consists of a Bachelor's in Economics and Sustainable Development from the University of London U.K., a Post Graduate Diploma in International Business from Capilano University, and a Master's in Business Administration from the University of British Columbia. Juvarya is passionate about always finding new ways to improve on existing methods. She believes that sustainability principles can be utilized to improve efficiency, stimulate innovation and create long term value. Her vision is to enable today's businesses to become more competitive in an evolving marketplace characterized by climate change risk and financial transformation. In her spare time Juvarya can be found on the yoga mat, at the tennis court, watching live music or tasting B.C.'s finest wines, and she once bartended on a desert island in Australia.

CASE STUDIES

Clean Energy Works Oregon: Catalyzing the Home Energy Efficiency Retrofit Industry

Barbara Byrd, Secretary-Treasurer of the Oregon AFL-CIO



Barbara Byrd is the Secretary-Treasurer of the Oregon AFL-CIO. Her duties there include overseeing economic development, workforce training and climate change issues. She also coordinates the activities of the Oregon Apollo Alliance, which helped enact path-breaking legislation to enable building retrofits financed by low interest loans that can be paid back on utility bills. She serves on the steering committee of the Portland Emerald Cities program, and in 2011 helped lead the effort to pass Oregon's Cool Schools initiative. Several years ago, Barbara helped to organize a Western regional labor group, including heads of the labor federations from the Western US and British Columbia, to push labor's agenda with the Western Climate Initiative. Her "day job" is as a faculty member of the Labor Education and Research Center (LERC) at the University of Oregon in Portland. In that position, she teaches workshops and classes for union activists and leaders, including grievance handling, leadership skills, and internal organizing. She also

oversees LERC's green jobs and climate change work.

Kelly Haines, Workforce Specialist, Clean Energy Works Oregon



At Clean Energy Works Oregon, Kelly is in charge of implementing the high road standards, which includes monitoring wage and healthcare compliance, developing training support, and working with community partners, contractors and stakeholders to collaborate and develop policy and incentives. She brings extensive sustainability and social equity experience to Clean Energy Works Oregon. After studying political economy and French at the Evergreen State College, Kelly completed the Master of Urban Studies program at Portland State University where her thesis focused on how and why Community

Development Financial Institutions measure their social impact with their investment decisions. During her studies, Kelly also worked on a local food system assessment and helped form social bottom line metrics for development investment projects. Prior to joining Clean Energy Works Oregon, she conducted indicator research for the City of Portland's Bureau of Planning and Sustainability that was included in the Portland Plan. Kelly has also been a union organizer and is very involved in the local labour community. In her free time, she loves to spend time with her three wonderful cats and fantastic wife, go for walks in Portland's Kenton neighbourhood, practice Kung Fu, and explore alternative economic theories.

Deconstruction: *Breaking Down Waste & Building Futures*

Michel Pouliot, *Manager of Youth Services, Pacific Community Resources Society*



Michel has worked with at-risk youth and families for the last 20 years and has a BA in Child and Youth Care Counselling from the University of the Fraser Valley. He currently works as a manager of youth services with Pacific Community Resource Society in Surrey where he has developed and implemented a number of innovative employment programs and initiatives for youth and young adults. He is leading the development of new deconstruction initiatives for Pacific Community Resources Society.

Pauline Dan, *MBA candidate*,

Pauline is an experienced scientific researcher. In collaboration with Pacific Community Resources Society, she is currently completing her MBA thesis study on the analysis of the deconstruction and building material reuse industries.



Barry Joneson, *Owner, Pacific Labour & Demolition*



Barry Joneson started his company "Pacific Labour" in 1993. Over the last 17 years or so he has, through hard work, developed an expertise in the process of systematically deconstructing and salvaging older buildings. Barry has always been a believer in the environmental duty we have to reuse and recycle as much as we can and in providing employment opportunities for many of the marginalized individuals who face unemployment due to their low technical skill sets and other social issues. He has worked with Pacific Community Resources Society on successful

pilot project and he continues to be a tireless promoter and advocate of deconstruction as the natural and environmentally responsible alternative to demolition. "Going forward, it is our hope to start to salvage as much good material as possible and realize just how much of it can be used for the manufacture of goods for sustainable incomes as we work together for greener communities and a more vibrant social fabric in our marginalized communities."

Pipes Need Jackets Too: *Mechanical Insulation to Improve Building Performance*

Micah Lang, *MA, LEED® AP, Planner, Energy and Resources - HB Lanarc Consultants*



As an Energy and Resource Planner at HB Lanarc Consultants in Vancouver, Micah works with cities, senior government and industry to craft policy solutions for sustainable energy use and reducing greenhouse gas emissions. This includes community-wide energy and emission plans for the Cities of Coquitlam, Campbell River, Nelson and North Vancouver; greenhouse gas analysis and policy advising for Tire Stewardship BC, Natural Resources Canada, the BC Climate Action Secretariat and the BC Heat and Frost Insulators. Prior to joining HB Lanarc, Micah was a Senior Program Officer for ICLEI-U.S.A. where he advised local governments across the United States on energy and emission

management and led the development of climate planning tools and accounting protocols. His educational qualifications include a Bachelor's degree in environmental science, a Master's degree in energy and resources from the University of California, Berkeley and LEED® accreditation through the Canada Green Building Council.

Micah is a co-author of the report *Pipes Need Jackets Too* and will be speaking at the Forum about the opportunities for saving energy and reducing greenhouse gas emissions through better mechanical insulation practice and standards.

Andre Pachon, President, C&G Insulation



Andre Pachon is president of C&G Insulation, a B.C. company specializing in mechanical Insulation since 1963. Andre has been extremely active in the industry; holding governing roles in both The British Columbia Insulation Contractors Association, and The Thermal Insulation Association of Canada.

His capable leadership and boundless enthusiasm are contributing factors in the ongoing promotion and evolution of mechanical insulation in the marketplace.

Lee Loftus, Business Manager, BC Heat & Frost Insulators



Lee is President of the BC and Yukon Territory Building and Construction Trades Council. He is also Business Manager for the International Association of Heat & Frost Insulators & Allied Workers Local 118, Administrator for the Insulation Industry Apprenticeship Board.

Mr. Loftus stated his construction in Northern BC in 1976 that includes experience in Industrial, shipbuilding, commercial and institutional construction. Mr. Loftus has significant knowledge and experience with building codes, fire codes and procurement practices as they relate to mechanical insulation. Mr. Loftus launched a number of campaigns to revitalize the local union, its members and the market share focused on the benefits of mechanical insulation, energy conservation and green house gas reduction.

T'Sou-ke First Nations Community Solar: *Beyond Power Generation*

Andrew Moore, Project Manager, T'Sou-ke Nation Solar Installation Project



Andrew Moore, trained as an Architect, specializes in community development. He has worked extensively with all levels of government, the private sector and grass roots organizations in the UK, Canada and S. Africa.

He has worked for the T'Sou-ke Nation for the last four years developing a comprehensive community plan and implementing many of the priority activities to help achieve self sufficiency. One of these projects is an innovation and demonstration project creating clean renewable energy from the sun assisting T'Sou-ke and other First Nations towards achieving energy autonomy.

WORKSHOPS

Policy & Community

John Calvert, *Associate Professor, Simon Fraser University*



Dr. Calvert is a political scientist with a specialization in public policy. After completing his BA and MA at the University of Western Ontario, he enrolled at the London School of Economics, where he obtained his PhD in the Government Department. His teaching and research interests are in the areas of Canadian public policy and health, the impact of international trade agreements on health policy, privatization and workers' occupational health and safety. He has published a number of books and articles on Canadian and international public policy and economic issues. Prior to coming to Simon Fraser University, Dr. Calvert worked for a number of years in the BC government as a policy advisor in the trade policy area and in the Ministries of Labour, Employment and Investment and the Crown Corporations Secretariat.

Kira Gerwing MScP, *Planner - Downtown Eastside Neighbourhoods Group Central Area Planning, City of Vancouver*



Kira Gerwing has been with the City of Vancouver Planning Department since 2005. Her current focus is projects supporting the regeneration of Vancouver's Downtown Eastside, specifically through local economic development, land use planning and policy development.

Prior to working at the City, Kira was a regional planner for an environmental non-profit organisation with extensive experience in conservation planning along British Columbia's coast. She holds a Masters in Community and Regional Planning from the University of British Columbia and Bachelor of

Geography from the University of Victoria.

Kira's core area of interest lies in partnering with marginalized communities to develop plans that synthesize their cultural and physical resources with traditional and community values. She has provided community and professional workshops on strategic planning, land use policies, community economic development, and government-to-government consultation.

She loves cycling in skirts and heels, and is a mother to two young children.

Marc Lee, *Senior Economist, Canadian Centre for Policy Alternatives*



Marc Lee researches and writes on a variety of economic and social policy issues for the CCPA's BC and National Offices. In addition to tracking federal and provincial budgets and economic trends, Marc has published on a wide range of topics from poverty and inequality to globalization and international trade to public services and regulation. Marc is the Co-Director of the Climate Justice Project, a five-year research partnership with the University of British Columbia, funded by the Social Sciences and Humanities Research Council, examining the links between climate change policies and social justice.

Marc was "classically trained," with an MA in Economics from Simon Fraser University and a BA in Economics from the University of Western Ontario. But most of the time he argues against the conventional wisdom in economics and policy debates. Marc is the past chair of the Progressive Economics Forum, a national network of heterodox economists, and contributes regularly to Relentlessly Progressive Economics, a blog of the PEF (progressive-economics.ca/relentless).

Hurrian Peyman, *Climate Policy Analyst, Climate Action Secretariat, BC's Ministry of Environment*



Hurrian Peyman is a Climate Policy Analyst with the Climate Action Secretariat at BC's Ministry of Environment, working on the Pay as You Save (PAYS) energy efficiency financing file. Previous to his work with the BC government, he consulted for the City of Vancouver on its Energy Efficiency Financing Program and the Vancouver Economic Commission on its Green Jobs and Green Zones projects. Hurrian also managed the BC region of Katimavik, Canada's national youth and community development program, for eight years. Hurrian has a Bachelor's from Trent University in International Development and an MBA in Sustainable Business from Sauder Business School at UBC.

Training & Education:

Ross Gentleman, *Executive Director, TradeWorks*



Ross Gentleman has been the executive director of Tradeworks Training Society since 2005, a non-profit community development organization that provides job-related skills training, counselling, and work opportunities to Downtown East Side residents. Tradeworks sponsors two social enterprises that provide entry level work experience for women and at-risk youth. Tradeworks collaborates with a wide variety of other agencies and businesses.

Previously, he worked for 16 years in financial services regulation in BC, and during that time his role ranged from supervising regulatory examinations to developing legislative amendments. Before leaving government service his role was Superintendent and Deputy Superintendent of Pensions. Prior to joining the civil service he held managerial positions with credit unions, cooperatives and the not-for-profit sector.

Ross holds an Executive MBA from SFU and a Bachelor of Science from McGill. He has also independently studied (& championed) credit unions, cooperatives & other forms of social enterprise.

Ross has been a director of Inhance Investment Management, CCEC credit union, central credit unions, housing & consumer co-ops and community organizations. He lives in the City of Vancouver.

Wayne Peppard, *Labour Consultant*



Wayne Peppard is a retired plumber, pipe-fitter and gas-fitter. During his 40 years in the construction industry, he completed his apprenticeship, worked on many industrial and commercial projects as well as in the residential sector. Wayne served as an Employment Standards Officer administering the Fair Wage Act enforcing trade qualifications and apprenticeship registration. He then worked for 3 years at the Plumbers Union Local 170 in communications and organizing. He then served for 3 years as the Allied Hydro Council Representative on major dam projects. He spent 7 years as Executive Director of the BC and Yukon Building and Construction Trades Council. Throughout his career, Wayne has advocated on behalf of workers on apprenticeship and training presenting at Federal and Provincial government conferences as well as many Provincial and Federal Labour conventions. Wayne retired from the BCYT January 2011 and is now a labour consultant.

Deena Boeck, *BPE, MSc, Associate Director of Life and Career Programs, UBC Continuing Studies*



She collaborates with professional associations, local employers and UBC faculties to develop and deliver a diverse range of professional and career development programs. She oversees the Green Building courses within the UBC Continuing Studies Centre for Sustainability and is a member of the Canada Green Building Council's Higher Education Working Group.

Standards & Certifications

Doug Podetz, *Director Program Standards, BC Industry Training Authority*



Doug Podetz is director of Program Standards, reporting to ITA Chief Operating Officer Gary Macey. Heading the program standards group, Doug works closely with B.C. stakeholders and other Canadian jurisdictions ensuring that ITA apprenticeship programs are achieving a high standard and Interprovincial Red Seal requirements are integrated throughout the training.

Doug became director in September 2011 after three years managing ITA's Red Seal, construction, crane and automotive programs. Previously, he was acting associate dean and administered apprenticeship programs at Kwantlen Polytechnic University. Doug's 30-year career involved trades training at secondary, post-secondary and provincial levels.

His professional activities have included chairing the B.C. Ministry of Education's Career Development Handbook Committee and the regional BC Skills Competition, and presidencies of the B.C. Technology Education Association and the Career Education Society of B.C.

Doug earned UBC bachelor of education and masters of education degrees, Red Seal Millwright certification and a BCIT diploma in mechanical technology

Emilie K. Adin, *City Planner, City of North Vancouver*



Emilie K. Adin is the City Planner for the City of North Vancouver, managing the long-term planning, policy development, social planning and development planning functions for the City. For the past 12 years, Emilie's articles on urbanism have been published in several newspapers, magazines and journals, and as a chapter in the book, Just Doing It. She has been a Visiting Scholar at UCLA, on award from the North American Consortium on Sustainable Development and Planning. Emilie also holds a UBC Master's Degree in planning, an SFU Urban Design Certificate, and a certificate on sustainability planning from La Universidad de la Habana in Cuba. Emilie is a LEED Accredited Professional as well as a Registered Professional Planner. She is currently writing a book on green urban design in Europe.

George Ingham, *President, United Power Ltd*



George Ingham started United Power Limited in 1967, and has spent 46 years involved in the electrical trades as a trades general contractor, organising trades per jurisdiction and training. During the 1980s UPL branched in to the NG industry designing and building fuelling stations and converted 2400 vehicles to NG. United Power now maintains Simon Fraser University and is active in green energy developments, particularly solar, across Canada and the US.

Currently, George is interested cross-over training with respect to the Professional Trades and securing expertise in these industries. He also sees the changes that need to be made in training and installation standards as incredibly important as we move toward the use of more green energy in building design and higher efficiency standards.

Serving on the VRCA Board of Directors, George is also recognised as a Hall of Fame member of the Electrical Contractors Association and is a former Chairman for the Joint Training Committee Contractor/IBEW. Mr. Ingham has stayed abreast of industry developments in the subject areas of electrical solar and wind.

He has been involved with photovoltaic training across America, he wrote the book **Power for the World Photovoltaic Revolution** and has been involved in the design and installation of PV installations across the US.

George enjoys chess, skiing and travel; he cruises to the Caribbean, the Pacific and European sea ports with his wife Cathy.

Jordan Fisher, LEED® AP, Program Director, FRESCo



Jordan Fisher is the program director for FRESCo, a company that helps building owners and managers through the process of planning and implementing green building retrofits. He is currently leading a program in the City of Vancouver targeting improvements to over a million square feet of multi-family buildings that will improve energy and water efficiency, reduce operating costs, and generate local employment.

Jordan has a diverse background having worked as a green development planner and project manager, cost consultant, facilitator, and community energy and emissions planner. He has played a key role in the planning of several billion dollars worth of green development that incorporates significant renewable energy and efficiency commitments. Jordan was a member of the US Green Building Council's LEED® ND Pilot Focus Group and was involved in the Canadian review of the preliminary US LEED® ND standards. He has initiated a number of green programs for the industry. He is a co-founder and past Chair of

the Vancouver Island Branch of the Green Building Council, a past board member of the BC Sustainability Energy Association, member of the Mayor's Task Force on Energy and Economic Development in the City of Colwood, and a member of Pearson College's Building and Grounds Committee & Sustainable Site Management Planning team.

Financing Solutions

Robert Duffy, Research Analyst, Columbia Institute



Robert is a research analyst with the Columbia Institute's Centre for Civic Governance, where he recently completed a report on municipal financing for energy efficiency retrofits in Canada. His background includes research positions in the BC legislature and at the national office of the Canadian Federation of Students. Prior to joining the Columbia Institute, Robert did legislative and communications work in the Canadian Parliament. Robert has worked on federal, provincial and municipal election

campaigns, and has organized for NGOs and social movements in Canada and the United Kingdom. He holds a Masters in Communications from Simon Fraser University.

Maureen Cureton, Green Business Manager, Vancity Credit Union, Community Investment Division



Maureen's first experience in the environmental sector was managing R&D for an organic recycling technology. Later she was a Project Manager at Rocky Mountain Institute –a world-renowned 'think tank' on market based solutions for sustainable development. Today, Maureen works with Vancity to advance environmentally progressive business development through innovative financing solutions and other support for energy-efficiency, renewables and green businesses.

She serves on Working Groups and committees with Natural Resources Canada, the Canadian Cooperative Association, Vancouver Economic Development Commission and local Boards of Trade. Maureen teaches sustainability courses for UBC and Royal Roads University, and has co-authored 3 books on sustainability issues. She holds an undergraduate degree in Natural Resource and Environmental Management, and an MBA.

Claire Beckstead, Technical and Policy Advisor, Sustainable Communities Group, Pembina Institute



Claire Beckstead is a technical and policy advisor with the Pembina Institute's Sustainable Communities Group. She is engaged in community energy planning with municipalities and First Nations communities in British Columbia, and has worked with many small and large communities across the province. Claire has experience in community energy planning (including greenhouse gas inventory analysis), facilitation and stakeholder engagement, and research and policy design. Claire is currently involved in the Pembina Institute's Green Building Leaders project, and is working with more than twelve local governments to design municipal and provincial policies to reduce greenhouse gas emissions from buildings in B.C.

Prior to joining the Pembina Institute, Claire worked with Ontario school boards researching the non-technical barriers to installing solar photovoltaic projects on primary and secondary schools. Claire holds a Master of Environmental Studies from the University of Waterloo.

Rachel Moscovich, *Green Building Planner, City of Vancouver*



Rachel Moscovich is a green building planner with the City of Vancouver. She works on a small team focused on developing policy and programs aimed at improving the environmental performance of buildings in Vancouver, with a key focus on retrofitting Vancouver's buildings to meet the target of 20% reduction in greenhouse gas emissions and energy use by 2020. Rachel holds a Master in Environmental Studies degree and a graduate diploma in Business and Sustainability from York University. She is a LEED Accredited Professional and has experience conducting greenhouse gas inventories and creating emissions reductions strategies for municipalities and organizations. Rachel sits on the board of directors of the Icarus Foundation, a Canadian not-for-profit aimed at promoting sustainable tourism.

GREENJOBSBC BUILDING A GREEN ECONOMY

We have an opportunity. British Columbia can protect jobs and create new good jobs – thousands of them. We can also do more – and more quickly – to reduce our carbon footprint and help avert climate change. We can do all this while making sure nobody is left behind. Good jobs, social justice and environmental justice – BC can pursue all of these by implementing a green jobs strategy.

GreenJobs BC exists to strengthen communication and cooperation between labour and environmental organizations, in order to advance economic and environmental initiatives that: provide good green jobs; are socially equitable; are ecologically responsible; and, result in the reduction of GHG emissions.

Specific Goals:

- Advance policy Initiatives that result in greater investment in and public support for green and community sustaining jobs
- Foster learning opportunities or discussion forums between labour and environmental organizations
- Identify and evaluate opportunities to work with other sectors. e.g. First Nations, business, faith, social justice groups

The Green Jobs BC Steering Committee consists of:

- Lisa Matthaus, Organizing for Change
- Morag Carter, David Suzuki Foundation
- Matt Horne, Pembina Institute
- Bob Matters, United Steel Workers BC
- George Heyman, Sierra Club
- Jim Sinclair, BC Federation of Labour
- Darryl Walker, BC Government and Services Employee Union
- Irene Lanzinger, former President BC Teachers Federation
- Charley Beresford, Columbia Institute