



# Building *Sustain*Able Communities

November 20th to 22nd, 2007

Coast Capri Hotel  
Kelowna, BC

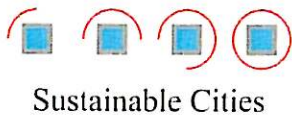
*For Local Governments:  
From Awareness to Action*

**HOST & FACILITATOR:  
Fresh Outlook Foundation**

**SPONSORS:**

Alcan • Built Green™ BC • BC Healthy Communities  
City of Kelowna • City of Port Moody • Community Energy Association  
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# Celebrating our sponsors!



## Please Join Us!

The Fresh Outlook Foundation is hosting the second annual Building SustainAble Communities conference for elected officials and staff from local governments throughout BC.

Last year's conference drew 215 people, with almost a third being elected officials, another third being administrators, and a final third being planners, engineers, consultants, etc. The province as a whole was very well represented, with delegates coming from throughout the Okanagan and as far away as Dawson Creek, Fort St. John, Mackenzie, Cranbrook, Nelson, Kimberley, Kitimat, Lytton, Smithers, Prince George, the lower mainland, and Vancouver Island.

Verbal and written evaluations were overwhelmingly positive. Seventy-eight percent of delegates were "very satisfied" with the topics and agenda, while 80 percent were "very satisfied" with the speakers. More than 85 percent were satisfied with networking opportunities. Probably most significantly, 97 percent of participants thought the conference should be an annual event. To that end, the foundation has scheduled it for November 20th to 22nd, 2007, again at the Coast Capri Hotel in Kelowna.

Conference organizers considered all evaluation feedback and survey responses in the development of this year's agenda. In fact, of the twelve most requested topics, nine are being addressed by world-class speakers from throughout North America. These topics include:

- sustainability indicators,
- internal barriers to sustainability,
- trends in water sustainability,
- new technologies for energy efficiency,
- trends in transportation demand management,
- consumerism and our throwaway economy,
- zero waste,
- climate change, and
- growth controls.

Please join us for these and the more than 30 other sustainability topics being explored at this year's event.

## Here's what they're saying about BSC...

"Last year's Building Sustainable Communities conference was one of the best I have attended. It was well organized, passionately moderated, and full of valuable information from some of the leaders in the field. We were still buzzing from the amazing energy that was there long after the event was over."

— **Ken Melamed**  
*Mayor, Resort Municipality of Whistler*

"The date is in my daytimer, and I will encourage all of my fellow Penticton councillors to attend. The sessions I attended last year with our mayor were real eye openers for us."

— **Rory McIvor**  
*Councillor, City of Penticton*

"I had many people tell me that the 2006 conference was the best that they had ever attended on the topic of sustainability. I was most impressed with the program organization and quality. I will be promoting both Nanaimo councillors and staff attending future events."

— **Jerry Berry, MPA**  
*City Manager, City of Nanaimo*

"Last year's conference has only got me thirsty for more."

— **Greg Dobrowolski**  
*Director of Development Services,  
City of Dawson Creek*

"The conference was very helpful to those in local government, who, as a result of their participation, are better translating sustainable thinking into everyday work ethic."

— **Dave Smith, PIBC, MCIP**  
*Director of Planning &  
Development Services,  
District of Peachland*

"This conference added considerable momentum to the sustainability movement in at least two critically important ways. First, it brought the ideas of an incredible array of innovative thinkers with diverse perspectives on sustainability to our doorstep to share their thoughts and experiences. Second, it engaged and challenged the key decision-makers to embrace the sustainability debate in meaningful ways that motivate us all into action. BSC is sure to become one of the must-be-seen-at events for everyone who is interested in and responsible for sustainable communities."

— **Dr. Bernie Bauer**  
*Dean, Irving K. Barber School of  
Arts & Sciences  
UBC-Okanagan*

## The Climate-Change Conundrum: Decision-Makers' Roles and Responsibilities

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7:30 REGISTRATION

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8:30 **Opening Remarks**

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8:45 **Climate Change 101 for Local Governments**  
Andrea Reimer, *Wilderness Committee*

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9:30 **Tackling Climate Change: The Need for Solutions that Work**  
Guy Dauncey — *President, BC Sustainable Energy Association*

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10:15 REFRESHMENT BREAK

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10:30 **Exploring Legal and Policy Challenges and Solutions**  
Susan Rutherford — *Staff Lawyer, West Coast Environmental Law*

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11:15 **Building Resilient Communities: Emerging Tools for Managing the Growing Exposure to Severe Weather**  
Paul Kovacs — *Executive Director, Institute for Catastrophic Loss Reduction*

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12:00 LUNCH

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1:10 Breakout

**1. The Carbon Challenge and Potential Solutions**  
Dr. James Tansey — *Chair of Business Ethics, Sauder School of Business, UBC*

*For speakers' bios and abstracts, please visit [www.freshoutlookfoundation.org](http://www.freshoutlookfoundation.org) and click on 'Coming Events.'*

**2. Forest Community Bio-Economy: Award-Winning Responses to Catastrophic Climate Change in Quesnel**

Jim Savage — *Executive Director, Quesnel Community & Economic Development Comm.*

**3. The BC Government's Climate Action Agenda**

Warren Bell — *BC Climate Action Secretariat*

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2:10 **The Climate-Change Playbook: Building a Roadmap and Toolkit for American and Canadian Cities**  
Mark Holland — *Partner, Holland Barrs Planning Group*

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3:00 REFRESHMENT BREAK

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3:20 **Envisioning Climate-Friendly Futures for BC Communities Using MetroQuest**  
Dave Biggs will facilitate this interactive session using computer-generated modelling software to show the potential effects of climate change on BC's future.

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4:30 **Closing Remarks**

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6:00 DINNER WITH KEYNOTE SPEAKER

Colin Grant, president of *Visible Strategies*, will join the dots between global, national, regional, and local climate-change targets and the interacting crises they can address. He will share real-life examples of communities around the world that are already achieving the types of results others are talking about achieving by the middle of the century. And he will present a potential model and tools for linking world-level-goals to local actions that could address multiple challenges.

# Fundraising Dinner & Gala

November 20th

The conference is hosted by the Fresh Outlook Foundation, a non-profit organization incorporated in the spring of 2007 that uses community-based social marketing to educate specific groups of British Columbians about sustainability. Its inaugural target audience is local governments through a program called Building SustainAble Communities (BSC), which educates and engages elected officials and staff using products and services designed specifically for them.



## *You're Invited!*

To help support its valuable work, the foundation is throwing a party Tuesday, November 20<sup>th</sup> as part of the Building SustainAble Communities conference at the Coast Capri Hotel. Guests will be treated to:

- Dinner
- Wine
- Keynote presentation by Colin Grant
- Entertainment by the Artist Response Team
- Silent Auction

Please help us help you learn more about sustainability. Join us for dinner at 6:30. Tickets are only \$99 plus GST.

Enjoy the insights and observations of **Colin Grant**,



multi-award-winning "green" inventor and sustainability advisor to organizations worldwide, including Al Gore's Live Earth team, the U.S.'s greenest mayor's team, and corporations of all sizes.

Mr. Grant will answer these and other provocative questions:

- How can you save a civilization in trouble and a planet under stress?
- Who's ahead of the climate-change curve and how did they get there?
- Peak Oil: Is it real and how does it relate to climate change?
- Peak Food: Is it a problem and what can we do about it?
- What convenient solutions are available to inconvenient truths?

**This is a definite must-see presentation!**

## Hear the Voices of Nature...

The Artist Response Team (ART) has created a public outreach and engagement model that ties school programs to community environmental events. Founded by Holly Arntzen and Stephen Foster in 1990, ART has since produced school music programs and, more recently, created a new model that partners municipalities, regional districts, school districts, community organizations, and corporations. This model was successfully launched in Kelowna in May 2007, and will be implemented in Victoria, Greater Vancouver, and the Olympic corridor, Nanaimo, Penticton, Calgary, and Banff in 2008.



*Holly Arntzen...  
Cycle of Life...  
Voices of Nature...  
Music...  
education...  
entertainment...  
...and action!  
Ecology, earth sciences,  
and sustainability...*

## Conference Accommodation



1171 Harvey Avenue, Kelowna, BC

Rates from \$85/night  
(Not including BC Hotel Tax and GST.)

For reservations call 1-800-663-1144  
or email [reservations@coastcaprihotel.com](mailto:reservations@coastcaprihotel.com)  
and ask for the Building SustainAble Communities rate.



1140 Harvey Avenue.  
Kelowna, BC

Rates from \$79/night  
(not including BC Hotel Tax and GST.)

For reservations call 1-800-663-0298  
or email [kelowna@accentinns.com](mailto:kelowna@accentinns.com).

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7:30 REGISTRATION

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8:30 Opening Remarks

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8:45 **Is Humanity Inherently Unsustainable?**  
Dr. Bill Rees — *Professor,*  
*School of Community and Regional Planning, UBC*

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9:30 **The Growth-Management Delusion**  
Dr. Gabor Zovanyi — *Professor,*  
*Eastern Washington University*

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10:15 REFRESHMENT BREAK

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10:30 **From Unbridled Consumerism to Zero Waste**  
Helen Spiegelman — *President,*  
*Product Policy Institute*

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11:15 Breakout #1

1. **From Vision to Action: Strategic Sustainability Planning in Rossland**  
Gord Smith — *Mayor, Rossland*  
Kelvin Saldern — *Executive Director,*  
*Kootenay Association for Science & Technology*

2. **Proactive Trends in Water Conservation**  
Doug Bennett — *Conservation Manager,*  
*Southern Nevada Water Authority*

3. **The Link Between Social Capital, Social Agency, and Sustainability**  
Dr. Chris Ling — *Post-Doctoral Scholar,*  
*Royal Roads University*

4. **Green Buildings & Net Zero Neighbourhoods**  
Helen Goodland — *Executive Director,*  
*Lighthouse Sustainable Building Centre*

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12:15 LUNCH

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1:15 **Critical Infrastructure for Sustainable Development**  
Dr. Ann Dale — *Professor, Royal Roads University*

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2:00 Breakout #2

1. **Award-Winning Sustainability Planning in Ucluelet**  
Felice Mazzoni — *Director of Planning,*  
*District of Ucluelet*

2. **Encouraging Sustainable Transportation**  
Dr. Gord Lovegrove — *Faculty of Applied Science, UBC-Okanagan*

3. **Bridging the Sustainability Planning/Implementation Gap**  
Chris Lindberg and Sean Connelly — *Simon Fraser University, Centre for Sustainable Community Development*

4. **Affordable Housing Options for Local Governments**  
Barry Greer — *Premier Canadian Properties*  
Greg Bird — *Acorn Communities/Homes*

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3:00 REFRESHMENT BREAK

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3:30 **Implementing Sustainability Planning and Changing Behavior: Lessons from the Field**  
Dr. Nola-Kate Seymoar — *President & CEO,*  
*International Centre for Sustainable Cities*  
Michael Mucha — *Director of Planning,*  
*Olympia, Washington*

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4:15 Closing Remarks

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6:30 DINNER WITH KEYNOTE SPEAKER

*Dave Waldron — Former director of the Master's Program "Strategic Leadership Towards Sustainability" at the Blekinge Institute of Technology in Sweden — will speak of his extensive experience with The Natural Step Framework, sustainability leadership development, and working with leading European communities.*

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8:00 REGISTRATION

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8:30 Opening Remarks

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8:45 What Does the Public Really Think About Sustainability?  
James Hoggan — *James Hoggan & Associates*

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9:30 From Red Tape to Green Development: Removing Bureaucratic Barriers  
David Reid — *Lanarc Consultants Ltd.*

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10:15 Breakout #1

1. Award-Winning Sustainability Successes in Port Moody  
Gaetan Royer — *City Manager, Port Moody, BC*
  2. Innovative Water Resources Management  
Dr. Hans Schreier — *Professor, UBC*
  3. Built Green™ BC, CHBABC Setting Sustainability Standards  
Jennifer Shaw — *Program Director, Canadian Homebuilders Association of BC*
  4. From Silos to Systems: An Integrated Approach to Addressing Climate Change  
Jodi Mucha — *Director, BC Healthy Communities*
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11:15 Breakout #2

1. Local Government Policy Tools for Energy Efficiency  
Michael Wilson — *Community Energy Association*  
Taylor Zeeg — *Community Action on Energy Efficiency*
2. Sustainable Sustainability Values: Perceiving Land as a Resource  
Dave Smith — *Director of Planning, District of Peachland*

3. Working Together for Conservation in the Okanagan

Tasha Sargent — *Grasslands Conservation Council of BC*

4. Federal and Provincial Sustainability Initiatives

*Ministry of Community Services*

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12:15 LUNCH WITH SPEAKER

Political Realities and Potential Synergies: Past, Present, and Future  
Dr. Tom Siddon — *Chair, Okanagan Water Stewardship Council*

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1:15 The Sectoral Approach to Sustainability: Involving the Public, Private, Civic, and Academic/Innovation Sectors

*Brief presentations followed by a panel discussion:*  
The Public Sector — Don Degen, *City of Kelowna*  
The Private Sector — Barry Milner, *Geotility*  
The Civic Sector — Jodie Sui, *SmartGrowth BC*  
The Academic/Innovation Sector — *UBC-Okanagan*

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2:30 Indicators: Tools to Measure and Advance Sustainability

Steve Litke — *Program Manager, Fraser Basin Council*

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3:15 REFRESHMENT BREAK

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3:30 Toward Sustainability: Strategies for Change Within Your Organization

Thomas Osdoba — *Executive Director, Canada Carbon Trust*

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4:15 Closing Remarks

*For speakers' bios and abstracts, please visit [www.freshoutlookfoundation.org](http://www.freshoutlookfoundation.org) and click on 'Coming Events.'*



# Registration Form

You can register one of two ways...

1. Visit [www.sporg.com](http://www.sporg.com) (Enter ID# 53102 in purple box)
2. Complete this form and mail with cheque (made payable to the Fresh Outlook Foundation) to the address below.

Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Position: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

*Please note: You can register for the entire conference or by the day.*

## Registration Packages (3 days plus 2 lunches and dinners)

- Free (speakers, sponsors, and draw winners) including Fundraising Dinner & Gala
- Students and non-profit representatives \$349.00
- Early Registration (by October 19th) \$449.00
- Registration (between October 20th and November 9th) \$499.00
- Late Registration (after November 9th) \$549.00

## Tuesday, November 20th (including lunch)

- Free (speakers, sponsors, and draw winners)
- Students and non-profit representatives \$ 59.00
- Early Registration (by October 19th) \$ 99.00
- Registration (between October 20th and November 9th) \$129.00
- Late Registration (after November 9th) \$159.00
- Fundraising Dinner & Gala \$ 99.00

## Wednesday, November 21st (including lunch and dinner)

- Free (speakers, sponsors, and draw winners)
- Students and non-profit representatives (no dinner) \$ 59.00
- Early Registration (by October 19th) \$179.00
- Registration (between October 20th and November 9th) \$209.00
- Late Registration (after November 9th) \$239.00

## Thursday, November 22nd (including lunch)

- Free (speakers, sponsors, and draw winners)
- Student or non-profit representative \$ 59.00
- Early Registration (by October 19th) \$ 99.00
- Registration (between October 20th and November 9th) \$129.00
- Late Registration (after November 9th) \$159.00

Sub-total \_\_\_\_\_

GST (6%) \_\_\_\_\_

TOTAL

## Session Preferences

Please indicate the session you are most likely to participate in during each of the following breakouts:

### Tuesday, November 20th: Breakout #1

- The Carbon Challenge and Potential Solutions
- Award-Winning Responses to Catastrophic Climate Change in Quesnel
- The BC Government's Climate Action Agenda

### Wednesday, November 21st: Breakout #1

- Strategic Sustainability Planning in Rossland
- Proactive Trends in Water Conservation
- The Link Between Social Capital, Social Agency and Sustainability
- Green Buildings & Net Zero Neighbourhoods

### Wednesday, November 21st: Breakout #2

- Award-Winning Sustainability Planning in Ucluelet
- Encouraging Sustainable Transportation
- Bridging the Sustainability Planning/Implementation Gap
- Affordable Housing Options for Local Governments

### Thursday, November 22nd: Breakout #1

- Sustainability Successes in Port Moody
- Innovate Water Resources Management
- Built Green™ BC: Setting Sustainability Standards
- An Integrated Approach to Addressing Climate Change

### Thursday, November 22nd: Breakout #2

- Local Government Policy Tools for Energy Efficiency
- Sustainable Housing: Addressing Imperfections in the Housing Market
- Working Together for Conservation in the Okanagan
- Federal and Provincial Sustainability Initiatives

*Please mail registrations and cheques to:*

Fresh Outlook Foundation  
12510 Ponderosa Road  
Lake Country, BC  
V4V 2G9



## **SPEAKERS' INFORMATION AND ABSTRACTS**

*November 20<sup>th</sup> to 22<sup>nd</sup>, 2007*  
*Coast Capri Hotel*  
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West Coast Environmental Law • Wilderness Committee



Tuesday, November 20<sup>th</sup>, 2007

## **How Can BC Communities Respond to Global Climate Change?**



**Guy Dauncey**  
*BC Sustainable Energy Association*

Guy Dauncey is a speaker, author, and organizer who works to develop a positive vision of a sustainable future, and to translate that vision into action. He is author of the award-winning book 'Stormy Weather: 101 Solutions to Global Climate Change', 'Cancer: 101 Solutions to a Preventable Epidemic', and other titles. He is president of the BC Sustainable Energy Association, co-chair of Prevent Cancer Now, founder of The Solutions Project, co-founder of the Victoria Car-

Share Cooperative, and editor of *EcoNews*, a monthly newsletter that promotes the vision of a sustainable Vancouver Island. His home page is [www.earthfuture.com](http://www.earthfuture.com).

*In this powerful and upbeat presentation, Guy Dauncey will remind us that the global climate crisis is every bit as severe as many people fear – yet we can also turn it around in our minds, and see it as an irresistible invitation to step forward as a civilization into a sustainable future.*

*Guy will give us an overview of the solutions that are needed to solve the problem globally, and then focus on what cities and towns are doing to tackle the problem around the world, and what we can do here in BC. By addressing global climate change, cities are laying the foundations for a healthy, resilient, sustainable future based on smart growth, eco-restoration, electric vehicles, cycling, efficient buildings, downtown revitalization, urban farming, public transit, green space protection, and a powerful vision of a very attractive future.*

## **Revising Policy for a Changing Climate: How Local Governments Can Adapt**



**Susan Rutherford (BAH, LLB)**  
*West Coast Environmental Law*

Susan Rutherford is staff counsel with West Coast Environmental Law (WCEL) and works in West Coast's Liveable and Sustainable Communities program area. Susan works to promote local government bylaws and policy tools that support smart growth in communities (e.g. to protect and sustain the green infrastructure, to support walkable, liveable neighbourhoods, and to promote green building development).

Prior to joining WCEL, Susan operated a sole practice in Vancouver, which from 2000 was focused almost exclusively on working with non-governmental organizations on public interest environmental law. Susan's experience has encompassed a range of legal issues, from conservation concerns and law reform projects, to addressing land-use conflicts, industrial agriculture, pesticide use, oil and gas development, and environmental

assessment. Susan has a Bachelor of Arts (Honours) degree in Political Studies from Queen's University and a Bachelor of Law from Osgoode Hall of York University in Toronto.

*Adapting to the current and anticipated impacts of climate change is a crucial element of an effective climate-change strategy, along with greenhouse gas reduction.*

*The 2007 Intergovernmental Panel on Climate Change report — 'Impacts, Adaptation and Vulnerability' — emphasizes the need for adaptation strategies to address the impacts of climate change on our water, coastlines, ecosystems, food, and health. Since the impacts are experienced locally, this creates an impetus for long-term, integrated local government planning and policy action.*

*The impacts on each community will be unique. Practically, this means that the challenge will be to assess and identify the impacts and risks that are most locally or regionally significant, and from there, to identify and adopt law and policy tools for managing them.*

*In Canada and around the world, local governments are grappling with the impacts and risks and are devising laws and policies to respond to the challenges. What sort of adaptation strategies will be most relevant to BC's communities? This presentation will focus on:*

- *Global climate change impacts and the BC context*
- *The need for local adaptation strategies*
- *Creating a strategic framework for a policy response*
- *A quick survey of law and policy development in Canada and elsewhere.*

### **Building Resilient Communities: Emerging Tools for Managing the Growing Exposure to Severe Weather**



**Paul Kovacs**  
*Institute for Catastrophic Loss Reduction*

Mr. Paul Kovacs is founder and executive director of the Institute for Catastrophic Loss Reduction (ICLR), and an Adjunct Research Professor, Department of Economics at the University of Western Ontario. ICLR is an institute at the University of Western Ontario that provides a forum for insurers and other interested partners to work together to reduce the loss of life and property damage caused by severe weather and earthquakes. Paul serves on a number of boards including the Canadian Council for Social Development and the Meteorological Service of Canada. He is experienced in insurance issues, public policy formation, and has been a popular commentator on policy issues for more than twenty-five

years. Paul was a lead author of the 2001 and 2007 International Panel on Climate Change (IPCC) *Impacts, Adaptation and Vulnerability* reports.

*Some of the most significant impacts of climate change will include an increase in the extreme climatic events that cause natural hazards. Studies have shown that climate change will increase extreme rainfall, heat waves, wildfires, tornadoes, and other extreme storms, as well as increase other climatic and environmental hazards. It is becoming obvious that many of the negative, and positive, impacts of climate change will have to be addressed at the municipal level. Some cities have begun to apply a risk-management approach to climate change threats, including plans to reduce greenhouse gas emissions and the negative impacts of climate change, while taking advantage of the opportunities that climate change may provide. As well, the Institute for Catastrophic Loss Reduction is developing programs designed to increase the resilience of homes, small businesses, and communities in the face of rising climatic extremes.*

## ***The Carbon Challenge and Potential Solutions***



**James Tansey (PhD)**  
*University of British Columbia*

Dr. Tansey joined UBC in 2006 and is jointly appointed with the Sauder School of Business and the W. Maurice Young Centre for Applied Ethics. His current research focuses on emerging international markets for carbon exchange, social determinants of health in developed countries, and the governance of biotechnology and genomics in Canada. James is co-founder of a Canadian carbon offset entity called [offsetters.com](http://offsetters.com). He has recently worked as an advisor and contributor to the World Economic Forum, the UK National Audit Office, Oxford Analytica, Cisco, Isis Innovation (Oxford) and the Asymmetric Threats Contingency Alliance. James received his PhD from the University of East Anglia in 1999.

*'Carbon offsets' are important transitional tools in climate policy in North America and other industrialized regions of the world. Offsets solve two problems. Firstly, individuals and organizations are unable to change behaviour generating emissions quickly; they are locked into technologies. Secondly, within the economy as a whole there are many opportunities to reduce emissions significantly as infrastructure is renewed or built, but in many cases, these opportunities are missed for financial reasons. Offsets allow individuals to pool their funds to invest in larger-scale emissions-reductions projects, which generate significant economies of scale. Third-party verification is important and standards are emerging which provide buyers with great confidence that projects are genuine and additional.*

### ***Forest Community Bio-economy: Award-Winning Responses to Catastrophic Climate Change in Quesnel***

**Jim Savage (BES)**  
*Quesnel Community and Economic Development Corporation*

Jim Savage is executive director of the Quesnel Community and Economic Development Corporation (QCEDC), a subsidiary of the City of Quesnel. He has more than 25 years experience in community economic development (CED) and sustainability action, including the following: project manager for the Pollution Probe Foundation in Toronto promoting energy efficiency, renewable energy and the "green city"; founding manager of the Community Futures Development Corporation in Quesnel, BC; and Regional Economic Development Officer and Regional Jobs Commissioner for the BC government in relation to the Cariboo-Chilcotin Land Use Plan. He's held his current position since 2000. Jim also has extensive private business experience in the tourism sector and in economic development consulting.

Jim has a degree in Environmental Studies from the University of Waterloo, a Certificate in Conflict Resolution from the Justice Institute of BC, and has served on boards of directors for many organizations (from food co-ops to technology innovation).

In 2006, Quesnel won the prestigious national Canada Lands Company Sustainable Development Award, which emphasizes the efforts of "meeting environmental challenges through cooperative partnerships of industry, government, and the citizenry." The award was due in part to the Quesnel Community and Economic Development Corporation's Green City Initiative, which includes the Quesnel Air Quality Roundtable and the Silva Gro nursery and Quesnel River Pulp partnership that allows the nursery to use warm water effluent from the mill for greenhouse heating.

The Quesnel Community Economic Development Corporation won the 2006 Strengthening Communities Award from the Fraser Basin Council for its work on the public discussion document *Prosperity & Sustainability: Taking action now for Quesnel's future*. Other Quesnel nominations at the 2006 State of the Fraser Basin Conference:

- the Quesnel Air Quality Roundtable, nominated in the Improving Decision-Making Award category, and
- the Baker Creek Enhancement Society, which was nominated for the Caring for Ecosystems Award.

*The pine beetle is causing the most significant economic change in the central interior of BC since the gold rush ended over 135 years ago. The Quesnel Community and Economic Development Corporation (QCEDC) is developing a "Green City" vision that will be a fundamental plank in Quesnel's change program, and if successful, will leapfrog us forward in terms of infrastructure for energy efficiency and renewable energy. Major CO<sub>2</sub> reduction is an automatic outcome of that work.*

*Quesnel has done many things towards greater sustainability, and has won BC and national awards for its efforts. Now we intend to build on that work, learning from many European and North American communities. The Green City plan calls for a focused and practical effort to reduce our ecological footprint; this will directly help change our economy. That may seem odd coming from an economic development group in a forestry town, but that work is not only the right thing to do: it will support and create many new jobs and businesses.*

## **The BC Government's Climate Action Agenda**



**Warren Bell (MA, BA)**  
BC Climate Action Secretariat

Warren is executive director of climate policy for the Climate Action Secretariat, Office of the Premier. Warren has more than 20 years experience with energy and climate change issues, policies, and programs. Prior to joining the secretariat earlier this year, Warren managed a consulting company that specialized in providing strategic support to Canadian corporate and government clients in the areas of climate change, energy, and sustainability, and was also an associate with the International Institute for Sustainable Development, a non-profit policy research institute.

Between 1994 and 2002, Warren was the lead on climate change for the BC government, and represented the province in national and international climate-change discussions. A particular focus has been market-based approaches and emissions trading — Warren launched one of the first greenhouse gas emission trading pilots in North America in 1997, and also worked on many aspects of Canada's emerging emission trading and offset system. Warren has degrees in economics from the Universities of Victoria and Western Ontario.

*This session will provide an update on the provincial government's climate action agenda. The February 2007 Throne Speech set out the government's commitment to reduce provincial emissions by 33 percent from 2007 levels by 2020. The speech also identified a number of major climate change initiatives, including clean tailpipe standards for vehicles, a low carbon fuel standard, new requirements for methane capture in landfills, and a new Green Building Code. Since the speech, BC has joined the Western Climate Initiative, a partnership of six western states and two provinces that will design a regional cap and trade system. BC has also joined The Climate Registry, a partnership of more than forty states and provinces that is developing common methods for measuring and reporting emissions.*

## ***The Climate Playbook: Building a Climate Change Roadmap and Toolkit for American and Canadian Cities***



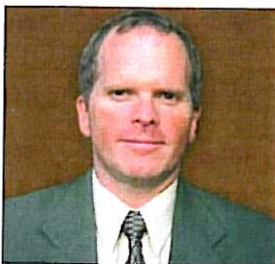
**Mark Holland (BLA, MSc, MCIP, LEED™)**  
*Holland Barrs Planning Group*

Mark is a LEED™-accredited planner who holds professional degrees in both Landscape Architecture and Community and Regional Planning. He is a principal with the Holland Barrs Planning Group Inc (HBPG), a sustainable development planning firm, with recent projects in eco-industrial development, site planning, community energy planning, water and waste management strategy development, transit planning, land administration systems, municipal tax strategies, organizational development, CPTED, and public participation. Prior to private practice, Mark served as a city planner with the City of Vancouver, both as a rezoning planner and as the sustainable development planner and project co-ordinator for the Southeast False Creek model sustainable urban development project.

Mark 's consulting work focuses on integrating sustainability principles into the mainstream development industry, and works with development teams to find cost-effective ways of developing in a more sustainable manner, including projects as small as infill projects to large-scale master-planned communities, in both the rural and urban context. Mark also works closely with the public sector, including serving in 2003-04 in a part-time capacity as the City of Vancouver's first manager of its Sustainability Office, with a focus on strategic planning and greenhouse gas management. He is working with the City to develop a comprehensive, cross-departmental Sustainability Action Plan. He serves on the Board of Directors of the Community Energy Association, the 30 Days of Sustainability Society, and the Ecodesign Resource Society. He has taught at both SFU and UBC, and has lectured on a wide range of issues. He was selected as one of Vancouver's top 40 under 40 in 2004 by *Business in Vancouver Magazine*.

*With the surge of recent economic and environmental information, action on climate change is increasingly in discussion in our communities. Since "most emissions are released locally", the role of local government is critical in responding to the challenge of climate change. A team from BC, led by the Holland Barrs Planning Group, is leading the development of a comprehensive roadmap and toolkit for local governments on addressing climate change for the US Green Building Council, US Conference of Mayors, and a group of co-sponsors for the project, including the EPA, ICLEI, the Clinton Foundation, and several leading cities in the US. This presentation will outline the roadmap and toolkit and how it can help BC communities respond in the most effective way to climate challenges by addressing neighbourhoods, transportation, green buildings, and innovative infrastructure.*

## ***Envisioning Climate-Friendly Futures for BC Communities Using MetroQuest***



**Dave Biggs**  
*Envision Sustainability Tools*

Dave Biggs has been a pioneer in the development and use of computer tools to engage stakeholders in discussions about sustainable futures since the term 'sustainable development' was coined in 1987. He is a co-founder of Envision Sustainability Tools, the developers of MetroQuest, which evolved from more than a decade of research at UBC's Sustainable Development Research Institute.

MetroQuest is Sim-City-type software that can be customized to explore 40-year future scenarios for any region of the world. Dave has led Envision in long-range sustainability planning projects on four continents including Canada,

United States, Australia, New Zealand, England, India, Thailand, Indonesia, Malaysia, Mexico, and China. Dave is an internationally recognized speaker and workshop facilitator, and has authored several books and papers on sustainability and the role of scenario tools in inspiring positive change.

*Join your colleagues in a fun and interactive session to create the most climate-friendly vision for BC communities. Explore strategies to meet the most aggressive greenhouse gas emission reduction goals being discussed. Using award-winning MetroQuest software, you'll be able to test out 40-year future scenarios on the fly, and instantly see how they perform on climate change and a wide range of other sustainability performance measures.*

*Participants will be challenged to make strategic choices while learning about systems-thinking and leading edge approaches for community engagement in decision-making. Discover win-win strategies for reducing greenhouse gas emission and improving the liveability, affordability, and sustainability of your community. Come and experiment with alternative land use, housing, transportation, energy, waste management, and water strategies. See how choices translate into triple-bottom-line consequences through comprehensive 40-year future scenarios.*

*Municipal representatives who are eager to move towards a new vision for their community will come away with firsthand experiences that can help them turn ideas into actions.*

## KEYNOTE ADDRESS:



**Colin Grant**  
Founder and CEO, Visible Strategies

Colin is an internationally recognized and award-winning innovator, coach, conference speaker, and strategic advisor who has inspired and advised organizations and individuals. Colin has an encyclopedic knowledge of the social, economic, and environmental factors changing our world, and the cutting edge sustainable strategies that address these factors.

He has advised mayors, federal government ministers, and multinational and company boardrooms. Colin's passion is to inspire communities and organizations to achieve meaningful, sustainable results in the face of the world's most difficult challenges. His list of roles includes the following:

- Board member – International Center for Sustainable Cities (ICSC)
- Member of City of Vancouver's Climate Leaders Group
- Member of City of Vancouver Mayor's Sustainability Council
- Former member – Federal Minister Stephan Dion's Sustainability Advisory Panel
- Recipient of several awards for excellence in academic business and scientific innovation.

*Not doing something about climate change is no longer an option. However, as cities and other governmental organizations try to address these issues, they face multiple challenges. What should we be trying to achieve? What goals make sense and when should we be trying to achieve them? What can we do and what should we do first? How does climate change fit in with other priorities such as affordable housing, economic development, fiscal balance, etc? How does food and energy security relate to more traditional concerns and how real are the rumours of crises ahead? All too often, the results of such deliberations are multiple disconnected plans with only partial buy-in from key stakeholders rather than the synergistic, transparent stakeholder-engaged initiatives that are required.*

*This presentation will join the dots between global, national, regional, and local climate-change targets and the interacting crises that they can address. Colin will use real-life examples of communities around the world that are already achieving the types of results that others are talking about achieving by the middle of the century. A potential model and tools for linking world-level-goals to local actions that could address multiple challenges will be presented.*



Wednesday, November 21<sup>st</sup>, 2007

## *Is Humanity Inherently Unsustainable?*



**William E. Rees (PhD)**  
*UBC School of Community and Regional Planning*

Dr. Rees received his PhD. in population ecology from the University of Toronto and has taught at UBC's School of Community and Regional Planning (SCARP) since 1969. Dr. Rees' teaching and research focus on the public policy and planning implications of global environmental trends, and the necessary ecological conditions for sustainable socioeconomic development.

Much of this work is in the realm of human ecology and ecological economics, where Dr. Rees is best known for inventing 'ecological footprint analysis.' His book on the concept, *'Our Ecological Footprint'* (co-authored with then-PhD. student Mathis Wackernagel) was published in 1996, and is now available in nine languages. In his current book project, Dr. Rees uses information from a variety of disciplines to answer the question, *'Is Humanity Inherently Unsustainable?'* In addition, Dr. Rees has authored more than 30 journal articles and book chapters in the last ten years alone. A dynamic speaker, Dr. Rees has been invited to lecture in more than 20 countries.

Dr. Rees is a founding member and recent past-president of the Canadian Society for Ecological Economics. He is also a co-investigator in the 'Global Integrity Project,' aimed at defining the ecological and political requirements for biodiversity preservation.

In 1997, UBC awarded Dr. Rees a Senior Killam Research Prize in acknowledgment of his research achievements, and in 2000 *The Vancouver Sun* recognized him as one of British Columbia's top "public intellectuals".

*The modern world generally assumes that the Malthusian spectre has been put to rest. Economists argue that, because technology has so increased the productivity of Earth, the terms 'human carrying capacity' and 'limits to growth' no longer have useful meaning. We are therefore firmly committed to a trajectory of continuous economic growth. Despite our technological hubris, the world is now also facing fisheries collapses, tropical deforestation, acidifying oceans, a biodiversity crisis, climate change, and myriad other indicators that we have, in fact, breeched safe limits and put global civilization at risk.*

*Nevertheless, the world community seems unwilling or unable to act in ways that will reverse these threatening trends. Interpreting available evidence, this presentation makes the case that modern humanity is, in fact, inherently unsustainable. Dr. Rees argues that 'unsustainability' is an inevitable emergent property of the systemic interaction between techno-industrial society and the ecosphere. The roots of our discontent can be traced to both ancient genes and modern memes. Innate behavioural traits that were once beneficial have become maladaptive in today's ecologically stressed world, but are being reinforced by contemporary socioeconomic beliefs, values and assumptions.*

*The relevant question is: "Can we change our ways in time to avoid catastrophe?"*

## ***The Growth-Management Delusion***



**Gabor Zovanyi (PhD)**  
*Eastern Washington University*

Dr. Gabor Zovanyi, a professor of urban planning at Eastern Washington University, specializes in environmental planning, land-use regulation, land-use law, and growth management. He holds a BA (economics) from UCLA, a MCP (city planning) from San Diego State University, and a PhD. (urban planning) from the University of Washington at Seattle. In addition to having taught growth-management courses at different universities, his professional experiences with growth management include employment as a planner with city, county, and federal agencies, as well as private consulting on growth-management projects.

Examples of his unconventional writings on growth management include the book '*Growth Management for a Sustainable Future: Ecological Sustainability as the New Growth-Management Focus for the 21st Century*' and two forum articles written for Negative Population Growth, Inc. titled '*The Growth-Management Delusion*' and '*Strategies for Stopping Growth in Local Communities.*' His current research focuses on existent ecological limits to growth, a no-growth management option, and the legality of management strategies intended to stop growth.

*Current growth-management and smart-growth initiatives represent an ongoing process of growth accommodation. A supportive "balanced-growth" argument asserts that growth and environmental protection represent equally legitimate objectives and that both can be pursued without compromising either. Dr. Zovanyi will argue that mounting ecological data confirm the delusional nature of that argument. He will address the unsustainable nature of ongoing growth accommodation and the need to redirect growth management to the new end of stopping growth in response to current ecological realities. In asserting the incongruity of further growth with ecological sustainability, Dr. Zovanyi will address the need to transition from the artificial growth imperative driving current growth-management initiatives, to an indispensable imperative of ecological sustainability. His presentation will conclude with suggested strategies for stopping growth in local communities.*

## ***From Unbridled Consumerism to Zero Waste***



**Helen Spiegelman (MA)**  
*Product Policy Institute*

Helen is Board President and co-founder of the Atlanta-based Product Policy Institute, an organization working with local governments to advance the Extended Producer Responsibility (EPR) approach to waste management. Helen's expertise in EPR comes from seven years with the Recycling Council of British Columbia (RCBC) during the 1990s where, as RCBC's Director of Communications, she helped build support and understanding of EPR principles. Now retired, Helen continues to be in demand as a speaker explaining the history of municipal waste management and the positive contributions of EPR.

*This talk is a wake-up call to local government decision makers. You may not have intended it, but you have been inadvertent enablers of our society's addiction to waste. By providing convenient waste collection programs week after week, you make it so easy to indulge in unbridled consumerism! Where's the incentive to reduce, reuse, recycle when the city will take away anything we want to get rid of?*

*The way to break the consumerism habit — and cut greenhouse gases in the process — is to stop providing welfare for waste. British Columbia is a world leader in a policy approach called "Extended Producer Responsibility," which requires producers to provide recycling services for their products. The minister has stated that eventually all products will be covered by EPR legislation (and two new product categories will be added in the next three years). Eventually, this will reduce municipal waste by 75 percent. As products and packaging disappear from the local waste stream, what will be left? Organic materials: table scraps and garden trimmings. Forward-looking local government decision-makers are now directing their staff to build modern infrastructure to manage these materials in an environmentally responsible manner. EPR + organics composting = Zero Waste.*

## ***From Vision to Action: Strategic Sustainability Planning in Rossland***



**Gordon Smith**  
*Mayor, City of Rossland*

Gordon was first elected to Rossland City Council in 2002, and chaired the portfolios of education and public safety. Interested in efficient governance, value-based decision-making, and integrated community sustainability planning, he was elected mayor in 2005.

Gordon was a founding member of the community-based initiative to introduce sustainability as a foundation for the City of Rossland's strategic, environmental, and land-use planning. As mayor, Gordon has contributed to building the support of city council for the Visions-to-Action project.

Outside of his duties as mayor, Gordon is the service manager for the TELUS Network Operations team for the West Kootenays, and is based in Trail, BC. Gordon is responsible for the successful operations and technology enhancements to the primary optical network, digital span, and remote radio sites.

With a commitment to learning, Gordon holds a BA (Hons) in Political Studies from Queen's University, a Graduate Diploma in Knowledge Management from Royal Roads University, and is currently writing his masters thesis for Royal Roads University entitled, "A complex adaptive systems approach to information architecture".



**Kelvin Saldern (ME)**  
*Executive Director, Kootenay Association for Science & Technology (KAST)*

A resident of Rossland for more than 20 years, Kelvin helped to initiate and design Rossland's Visions-to-Action community planning process. He continues to guide the initiative, as part of the project steering committee.

As executive director of the Kootenay Association May (KAST), a regional economic development organization, Kelvin is involved with planning and development projects throughout the region. In his previous role leading a three-year Office of Learning Technologies demonstration project with SFU, North Island College, and the Greater Trail Community Skills Centre, he was instrumental in the successful completion of the Rossland Visions Project, which continues to influence Rossland community development.

Public life includes three terms as Rossland's School District trustee where, as chair, he led the district through a very difficult time of restructuring and change. As a trustee, he also helped formulate and launch the Ski Academy and International programs at Rossland Secondary School.

Kelvin's masters degree (Med SFU) focused on organizational and community learning based on the work of influential thinkers like Arie de Gues and Peter Senge, which continues to shape his professional and community volunteer work.

*Rossland is a town in transition, from a historical mining and smelting economy to a diversified, but resort development-focused, economy. Starting in February 2007, the City of Rossland began the process of developing a long-term planning strategy for the municipality. The project, called 'Visions to Action', is framed around engaging the community in a conversation about the desired future of Rossland. It is also focused on building awareness within the community and beyond of how we can plan for a better, more sustainable future. The project will have two outcomes: 1) an update to the Official Community Plan that reflects the community's long-term strategic direction; and 2) the development of a Strategic Sustainability Plan to define where the community wants to be in the year 2025, and to outline what actions need to be taken to realize those goals. A key component of the process is the high level of community engagement using a wide variety of methods.*

*In this presentation, participants will learn about the challenges and successes the City of Rossland and the Visions-To-Action steering committee have found along the path to a vital, sustainable community.*

### **Proactive Trends in Water Conservation**



**Doug Bennett (MBA, BAg)**  
Conservation Manager, Southern Nevada Water Authority

Doug Bennett literally began his career "in the trenches" in 1980 as a landscape maintenance and irrigation technician. Armed with a bachelor's degree in agriculture and a master's degree in business, he served eight years as an assistant professor for New Mexico State University, promoting xeriscaping and efficient landscape irrigation techniques.

In 1995, Bennett joined the City of Albuquerque where he developed and managed a variety of water-efficiency programs, including landscape conversion rebates, water waste enforcement, residential retrofit audits, appliance and fixture rebates, and green industry education. Since 2000, Bennett has been conservation manager for the Southern Nevada Water Authority, managing the nation's largest conservation incentive programs and coordinating regional water-efficiency efforts for the Las Vegas, Nevada area.

*Kelowna and Las Vegas may seem worlds apart, but when it comes to water efficiency and regional collaboration, there are lessons to be shared. Doug Bennett, conservation manager for the Southern Nevada Water Authority, will explain key concepts for successful, proactive water efficiency programs. Using Las Vegas as an example, Doug will "implode" some of the common myths and give you a behind-the-scenes look at where water really goes. Learn how to determine where the greatest efficiency opportunities can be found in any community, and how to win support for progressive conservation policies and programs.*

## **The Community Livability Survey: Understanding Sustainable Community Development**



**Chris Ling (PhD)**  
Royal Roads University

Dr. Chris Ling is a post-doctoral fellow at Royal Roads University. His background is in environmental sciences, which he read at Southampton University, England. A short, enlightening but ultimately unfulfilling stint in consultancy led to seven years in Manchester, England working on a number of landscape, sustainability, and quality-of-life, capital-orientated research projects. During this time he also achieved an MSc in pollution and environmental control, and a PhD in planning and landscape, examining quality-of-life capital in post-industrial landscapes.

His main areas of research interest are landscape multifunctionality, quality-of-life capital, urban-fringe and post-industrial landscapes, and sustainability. Since taking up the post-doc position as part of Dr. Ann Dale's Canada Research Chair at Royal Roads University, he has been involved in research examining sustainable community development across Canada, including notions of sustainable infrastructure, social agency, social capital and the way in which the nature and development of a community can shape the people living within it.

*Regardless of geographic location, our communities are formed by the individual choices we make each day: joining the school computer club or sports team, supporting an environmental group or politician, moving to a new home, choosing a school, or joining a local church group. Our decisions to live more sustainably in our communities are often shaped by the community resources available to us such as public transit, access to shops and restaurants, water and sewer, friends and family, health care, schools, services for seniors, and recreational opportunities. But do we define our communities or do they define us?*

*This presentation reports some preliminary findings from a survey designed to compare communities across Canada, and explores what characterizes sustainable community development. The survey was developed by Dale, VanWynsberghe, Waldron, Newman, and Ling, adapting work carried out by the internationally recognized Onyx and Bullen scale. The 'Community Livability Survey' is conducted under the auspices of Dr. Ann Dale, Canada Research Chair in Sustainable Community Development at Royal Roads University. It is uniquely designed for Canadians to compare and contrast socialability, sustainability and the capacity of different communities to make changes towards more sustainable community development. The survey can be completed at <http://www.crcresearch.org/survey.htm>.*

## **Green Buildings & Net Zero Neighbourhoods**



**Helen Goodland (MBA)**  
Light House Sustainable Building Centre

Helen is executive director of Light House Sustainable Building Centre. Light House is an enterprising non-profit society dedicated to catalyzing sustainability in British Columbia's built environment. Light House is where all British Columbians — industry professionals, building owners, government representatives, and members of the public — can connect with the inspiration, information, services, and skills they need to implement sustainable building solutions.

Through a series of initiatives including market analysis and education programs, Light House's staff of ten green building professionals and 50 volunteers work to accelerate market transformation and economic development

activities for BC's emerging sustainable building industry. Light House is also advancing both public sector programs and private sector initiatives through community engagement, research, partnership development, technical assistance, and consulting services.

Helen is a LEED-accredited UK-registered architect with more than 15 years expertise designing and building a wide range of green buildings in BC and around the world. Helen also holds a Masters in Business Administration from UBC and has been involved with both public- and private-sector organizations helping them understand and reap the benefits of the synergies between sustainable building and business practices.

*Light House operates at the interface between British Columbians and green building providers and regulators. As BC's green building market catalyst, Light House provides insights into what needs to happen at the regulatory level to enable some of the new technologies. In this presentation, Helen Goodland will explore the emerging world of low carbon and how this will impact the construction community. Bringing lessons from leading-edge work around the world as well as on our doorstep, Helen will demystify concepts such as "net zero" and provide practical illustrations through project case studies.*

*Of specific interest to municipalities, she will focus on the policies and regulations that have been shown to help (and hinder) deep green technologies at the point of integration with the building: pointing to lessons learnt from Light House's own net zero project.*

*She will also share top-line findings from the economic development activity currently underway at Light House to provide a snapshot of what other jurisdictions are doing to foster green buildings (and the economic benefits that result).*

## **Critical Infrastructure for Sustainable Development**



**Ann Dale (PhD)**  
*Royal Roads University*

Dr. Dale is a rare hybrid: She is both an academic and an activist. Currently she is engaged in two major research initiatives at Royal Roads University. First, she is leading the e-Dialogues for Sustainable Development, a series of online dialogues exploring critical issues using the power of the Internet to influence public policy. Second, she is exploring the relationship between social capital and sustainable community development. In 2001, she received the Policy Research Initiatives Outstanding Research Contribution Award for her most recent book, 'At the Edge — Sustainable Development in the 21st Century.' As an activist, she has been involved in the creation of a \$30-million people's trust for the environment, called the National Environmental Treasure — the NET. She is also executive coordinator of the Research and Public Policy Office of the Canadian Biodiversity Institute.

*Infrastructure is the set of structural elements that supports day-to-day function and influences the direction of human society. Sustainable infrastructure refers to the designing, building, and operating of these structural elements in ways that do not diminish the social, economic, and ecological processes required to maintain human equity, diversity, and the functionality of natural systems.*

*Infrastructure is critical to sustainable community development, our future well being, and the day-to-day lives of individual Canadians. This paper presents the results of a year-long research program looking at key infrastructure areas and presents a number of key observations and recommendations that emerged as a result of five on-line real-time e-Dialogues, an e-focus group of planners and architects, a survey of planners across the country, twenty Canadian case studies, and discussions undertaken by the research team. These recommendations cover such diverse topics as market mechanisms for innovation and adoption, the importance of policy congruence and alignment, and comprehensive planning techniques.*

## **Award-Winning Sustainability Planning in Ucluelet**



**Felice Mazzone**  
*Director of Planning, District of Ucluelet*

Felice is a full member of the Planning Institute of BC, who has twelve years of municipal planning experience, nine of which have been at the District of Ucluelet as the Director of Planning and Deputy Approving Officer.

Felice's academic career initially began at Malaspina University College and then advanced to the University of Victoria. During his professional career, Felice acquired a Site Planning Certificate from the University of British Columbia's School of Community and Regional Planning, and subsequently an Urban Design Certificate from Simon Fraser University's City Program in 2004.

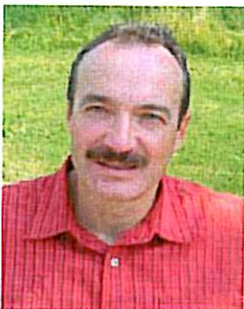
Recently, in addition to his full time job, Felice began his own private consulting company, "Mazzone & Associates Planning" and is involved in planning projects both on Vancouver Island and in the BC Interior.

Felice's interests include alternative development standards, density-bonusing, affordable housing, and win-win development negotiations. He appears as a guest lecturer at Malaspina University/College and is the co-founder of the internationally recognized Malaspina/Ucluelet planning research alliance. Felice recently received the 2007 "Planner of the Year" award from the Planning Institute of British Columbia.

*Ucluelet, a small community on the West Coast of Vancouver Island, has experienced an economic transition from a forestry- and fishing- based economy, to tourism and eco-tourism over the past five years. The development pressures on the community are constant, which creates a challenge in maintaining community character and "sense of place" for residences and visitors alike.*

*Through careful planning and strong local political support, Ucluelet has successfully implemented "smart-growth" sustainable planning tools such as density bonusing, alternative design standards, affordable housing policies, public access, comprehensive development zoning, and recently, mandatory LEED (Leadership in Energy and Environmental Design) construction standards for new development. The tools have been incorporated into day-to-day planning procedures as well as long-term planning for the future of the community. The planning principles can be implemented through a variety of means in terms of rezoning, development permits, or subdivision design and layout. Ucluelet's planning principles can be implemented and transferred to larger cities or other rural communities experiencing development pressures.*

## **Encouraging Sustainable Transportation**



**Gord Lovegrove (PhD)**  
*UBC-O School of Engineering*

Dr. Lovegrove has worked variously as a development and transportation engineer and consultant for more than 20 years in communities throughout BC, emphasizing the promotion of sustainable lifestyles and communities. He is regularly asked to speak on sustainable development and transportation, and has been a contributor and/or expert consultant on several sustainability texts used today by governments and universities across North America.

Most recently, he helped develop UBC-V's award-winning Universal Transportation Pass (U-Pass) program that is saving 40,000 university students more than \$4 million per month, reducing GHG emissions by more than 15,000 tonnes per year, increasing use of sustainable transportation, and improving road safety. He was also involved in the development of UBC-V's successful TREK Program Centre ([www.trek.ubc.ca](http://www.trek.ubc.ca)), dedicated to promoting sustainable transportation and development on campus. The UBC TREK Program has been featured by Toor and Havlick in *Transportation & Sustainable Campus Communities* (2004).

Coming this fall will be a seminal text covering his groundbreaking research on sustainable development, entitled '*Sustainable Road Safety*.' Dr. Lovegrove is currently co-chair of the Okanagan Partnership's flagship on transportation that has been touring the Okanagan to solicit public input on ways to make our valley more economically, environmentally, and socially viable in the long term.

*The current sustainability bandwagon is gaining in momentum and size, but will it make a real difference on the ground, in our homes, and in the long term for cities like Kelowna? We have grown up in a beautiful natural setting, and love our remote neighbourhoods with large lots and low densities, and sprawling shopping centres with lots of free parking. Almost no one uses the sparse transit service or bike lanes. On the other hand, we're complaining about water and air quality, and traffic congestion, so something has to give. We read daily about similar concerns in other communities around the world: GHG emissions, air quality concerns, transportation congestion, water supply, scarce land.*

*This presentation will focus on ways to promote sustainable transportation from a holistic, system-based approach. It will answer the questions: "Why aren't Kelowna bike lanes and bus service alone making a difference?" What more is needed to bring a balanced, integrated, and effective approach to promote more sustainable travel habits?" Real-life examples exist. Let's glean lessons from success stories around the globe — North America, Europe, South America, Asia — that could be applied in Kelowna. This presentation will benefit delegates considering ways to strengthen their OCPs and other growth-management planning tools.*

### ***Bridging the Sustainability Planning/Implementation Gap***



**Sean Connelly (MA, BA)**  
*SFU Centre for Sustainable Community Development*

Sean obtained a BA (Hon.) in International Development from the University of Guelph and an MA in International Studies from the University of Northern BC. He is a researcher at the SFU Centre for Sustainable Community Development, and a PhD candidate in the Department of Geography, where he is conducting research on strategic decision-making for the implementation of sustainable community development initiatives. Previously, he worked for ICLEI – Local Governments for Sustainability in the preparation for the Local Government Session of the World Summit on Sustainable Development in Johannesburg.

Prior to his interest in the role of local governments in sustainability, Sean worked with indigenous groups in Suriname on the evaluation of co-management arrangements with government for sea turtle conservation, and with local residents in a preliminary buffer zone management plan for Brimstone Hill Fortress National Park in St. Kitts.



**Chris Lindberg (MA, BSc)**  
*SFU Centre for Sustainable Community Development*

Chris is also a researcher with the SFU Centre for Sustainable Community Development, in addition to being a founding director of the non-profit Light House Sustainable Building Centre, and a facilitator with Visible Strategies, a Vancouver-based sustainability consulting company and the creators of the See-it™ strategic visioning tool. He recently completed a master's thesis

that examined the relationships between specific market and policy mechanisms, planning frameworks, market actors, and community capital indicators in order to develop guidelines for the sustainable development of neighbourhoods.

Chris' diverse background includes studies in biology, economics, and sustainability; policy work with federal and provincial government agencies; international development work in Central America; and entrepreneurial activities with both private and non-profit organizations. He is also a member of the BC Advisory Group on Integrated Community Sustainability Planning and an associate of The Natural Step Canada.

*Communities across Canada have succeeded at integrating sustainability into their high-level visions and plans, but have struggled with translating those ideas into practical strategies, actions, and outcomes. This session draws on the experiences of recent winners of the Federation of Canadian Municipalities Sustainable Community Awards to highlight strategies for overcoming the planning-implementation gap and making sustainability happen. The presentation is based on three years of research by the SFU Centre for Sustainable Community Development.*

*Canadian municipalities are facing the dual problem of declining infrastructure investments and aging infrastructure, resulting in an infrastructure funding deficit that is estimated at \$60 billion and growing by \$2 billion a year. While this deficit represents an enormous challenge, it also provides an historic opportunity to re-new our community infrastructure and re-shape our communities in a more sustainable manner.*

*Implementing sustainability requires a systemic approach to policy development and strategic decision-making. This session will present concrete examples of the policy instruments, strategies, processes, and actors that have been effective in making the link between planning and sustainability outcomes in the Canadian context using a systems-based framework for sustainability. Whether you are interested in transportation, economic development, or affordable housing, this session has something for you.*

### **Affordable Housing Options for Local Governments**



**Greg Bird**  
*President, Acorn Communities Ltd.*

In 2000, Greg founded Acorn Communities Ltd., an integrated land-development, home-building, and condominium-development company operating in the Okanagan. Before that, Greg held a number of executive and senior management positions in the real-estate development and construction industries. These included vice-president of development for Three Sisters Resorts in Canmore Alberta, and vice-president of

Real Estate and Development for Nelson Lumber Company Ltd. Additionally, he has held the positions of branch manager, Edmonton and Winnipeg, and branch controller, Winnipeg, for the Qualico family of companies — one of Canada's largest private commercial and residential real-estate development companies.

Prior to his experience in the development industry, Greg held accounting and project management positions in the construction industry with Bird Construction Company Ltd. and Dillingham Construction in Winnipeg and Vancouver. He has studied accounting through the Certified General Accountants Association of British Columbia. Additional, he holds a Certified Housing Professional Designation from the Manitoba Home Builder's Association and a Diploma in Engineering from Seneca College of Applied Arts and Technology.

## **Implementing Sustainability Planning and Changing Behavior: Lessons from the Field**



**Nola-Kate Seymoar (PhD)**  
*International Centre for Sustainable Cities*

Nola-Kate is president and CEO of ICSC. She has worked in sustainable development at the international level since the 1980s, and has a background in community economic development and social psychology. Before coming to ICSC, she was senior advisor and deputy to the president at the International Institute for Sustainable Development in Winnipeg. In the early 1990s, she developed and directed the *We the People: 50 Communities Awards Programme* in honour of the 50<sup>th</sup> Anniversary of the UN, and was the executive director of ECO ED (World Congress for Education & Communication on Environment and Development), a follow-up to the Earth Summit. She received the Queen's Jubilee Medal in 2002.

*More than 30 cities and regions in Canada and abroad are experimenting with different approaches to long-term planning, and are sharing their learning as part of the Sustainable Cities: PLUS Network. While they find it difficult and challenging to do good sustainability planning, as they move to implement these plans they confront an even bigger challenge — changing human behavior.*

*This session will use examples from the network and focus in particular on the case of Olympia, Washington to discuss — not climate change, but behavior change. How do you engage citizens and change their behavior so as to build a sustainable city and adapt to climate change? Dr. Nola-Kate Seymoar, a social psychologist and president of the International Centre for Sustainable Cities, and Michael Mucha, Olympia's director of public works, have teamed up to analyze Olympia's lessons about behavior change. They will use a number of frameworks to examine how the city changed the behavior of staff and the decision-making process, and affected residents' water usage. When changes to structures and regulations are combined with different processes and stories that communicate at a psychological level, the experiences of Olympia and others suggest that worldviews and behaviors can be transformed.*

## **Strategic Sustainable Development in Learning Communities: Synergies and Practice**



**David Waldron (MRM, BASc)**

David is interested in translating powerful concepts and process ideas — for an attractive, sustainable society — into real projects that 'walk the talk.' He has led initiatives for local communities, academia, and business.

From 2003 to 2007, he led the design and delivery of a unique, international Master's Program called 'Strategic Leadership towards Sustainability' at the Blekinge Institute of Technology, Karlskrona, Sweden ([www.bth.se/msls](http://www.bth.se/msls)). This program, developed with Swedish pioneers of The Natural Step (TNS), combines a scientifically relevant understanding of sustainability with a systems approach to leadership development. During this time, he also participated in a number of community-based sustainability initiatives in Europe, for both the private and non-profit sectors.

From 1997 to 2003 he initiated, co-authored, and coordinated environmental sustainability policy efforts in Whistler, BC, including a community vision (Whistler 2002), an environmental master plan (Whistler Environmental Strategy), and an award-winning community partnership utilizing The TNS framework (Whistler. It's Our Nature). He was also a strategic advisor to Whistler2020, Whistler's widely acclaimed sustainability plan.

David has 20 years experience in municipal engineering, environmental management, strategic planning, community change processes, and leadership development. He holds a master's degree in Resource and Environmental Management from SFU and a BA Sc (Civil Engineering) from UBC. He is originally from the Kelowna area.

*This presentation will build a case upon two known themes that can be helpful in combating the challenge of the 21<sup>st</sup> Century — society's unsustainability. The first is developing a clear purpose for community efforts, based on basic sustainability principles, and the second is the ability to engage people in co-creating a desirable future.*

*The first of these themes — call it strategic sustainable development — improves clarity of purpose by beginning with 'backcasting' from scientifically relevant, basic principles for a sustainable society. This theme draws from the work of Karl-Henrik Robèrt and other scientists and practitioners pioneering The Natural Step planning framework — a rational planning method for sustainability projects at any scale.*

*The second theme — call it appropriate leadership — draws from a systems view of organizational learning for transformative change, and uses practical techniques for inviting and engaging people in an open process to co-create a desirable, sustainable future.*

*A synergy of these two themes working together will be proposed. The result is a series of connected stories of energetic responses to humanity's sustainability challenge. The stories serve to illustrate possibilities and inspire sustainability leaders. They are based on experiences with Whistler, a new international Master's Program in Sweden ('Strategic Leadership towards Sustainability') and the progressive practices of some European cities.*



Thursday, November 22<sup>nd</sup>, 2007

## ***What Does the Public Really Think About Sustainability?***



**James Hogan**  
*James Hogan & Associates*

James is the president of the award-winning public relations firm James Hoggan & Associates. In addition to offering communications advice to public institutions and to local, national, and international corporate clients, he serves as chair of the David Suzuki Foundation, a trustee of the Dalai Lama Center for Peace and Education, and a board member of Future Generations Canada and Future Generations International.

In addition to having led the largest-ever research project on sustainability in Canada, James also chairs a sustainable development project in the Four Great Rivers region, an environmentally pristine but endangered corner of Eastern Tibet. Also, he is the founder of [www.DeSmogBlog.com](http://www.DeSmogBlog.com), a weblog dedicated to exposing the public relations tactics being used to confuse the public about climate change.

*'Communicating Sustainability' is the most comprehensive research initiative ever undertaken on the views and values of Canadians on the issue of sustainability. Led by James Hoggan and Associates in partnership with the Globe Foundation, research firms McAllister Opinion Research, StoryTellings™, and ViewPoint Learning, the initiative investigated how members of the public and opinion leaders think about sustainability. James will present the findings and discuss what they mean for municipalities in BC.*

## ***From Red Tape to Green Development: Making Sustainable Development Standard Practice***



**David Reid (BLA, FCSLA)**  
*Lanarc Consultants Ltd.*

David's 32 years in landscape architecture started with graduation from the University of Guelph in 1975. David, at the old age of 22, agreed to man Landplan's Vancouver office for three months in 1976. The three months grew to five years in Vancouver and a practice of ten professionals. In 1981, David convinced Landplan to let him start a branch office on Vancouver Island. There were no landscape architects north of Victoria at the time, and David moved to Nanaimo to fill that niche. When Landplan pulled back to Ontario, David stayed on the Island, by that time happily married. The descendant firm, Lanarc Consultants, is now a diversified consultancy of

fifteen, with partners Doug Backhouse and Don Crockett, and offices in Nanaimo and the Lower Mainland BC. Many projects have included waterfront improvements or watercourse conservation or restoration. Lanarc is also heavily involved in Community Planning and Environmental Design – with a specialty in incorporating environmental policies into community plans, and in integrating environmental solutions into development. Current clients include Simon Fraser UniverCity, Malaspina University/College, and many local governments in the Lower Mainland and Vancouver Island, including Coquitlam, Burnaby, Esquimalt, Nanaimo, and Campbell River.

David practices as both a land use planner and a landscape architect, and is also heavily involved in site and stormwater engineering. Among many awards, he was nominated 'Fellow' of the Canadian Society of Landscape Architects' in 2003 – the highest honour that the society can bestow. David's passion is to 'make sustainable development standard practice'. His clients are proceeding rapidly toward that goal.

*Local governments and the development community will almost universally express support for sustainable development. Each may place a different emphasis on one of economic, social or environmental goals, but they all support the principle. Most are also frustrated by the barriers that delay implementation of sustainable development. The barriers may be economic. They may be time or effort. They may be lack of understanding. They are, far too often, regulatory barriers.*

*David Reid and Lanarc Consultants have been working for a good part of their 25-year history to not just talk about, but to implement, sustainable development. The effort has ranged through:*

- *'Smart Growth' neighbourhood plans for up to 10,000 people.*
- *A myriad of ambitious park, trail and habitat restoration projects – both strategies and those that have been constructed.*
- *Regional scale transportation strategies for rail, rails with trails, and related real estate assets.*
- *Financing and fund-raising strategies to support sustainable projects.*
- *'Environmental programs' for local governments that integrate habitat, stormwater, energy and other initiatives into a cohesive and affordable strategy. Drinking water protection programs. Stewardship programs. Water conservation strategies.*
- *Visualizations, life-cycle analysis and other techniques that increase understanding of alternatives.*
- *Web and special event outreach to public and stakeholders – including lighthearted and successful approaches.*
- *Design and technical guidelines in magazine, video, and web formats – including educational posters that we think of as 'bathroom art' for planning and engineering offices.*
- *Many 'get-it-built' projects that include real innovation and monitoring of BMPs.*
- *Worldwide research on current practices in water conservation and in stormwater management.*
- *Writing new and flexible design standards and specifications for local government engineers – that appeal to both small and large developers, and that integrate planning, engineering, parks, and environmental objectives.*
- *Installation auditing and contractor training.*

*This presentation will summarize key principles, from this wide experience, that are removing barriers to sustainable development, and that are seeing its application expand very rapidly in BC. Most important, the talk will reveal the power of acting at a wide variety of scales, and cutting through the 'stove pipes' of bureaucracies, professional disciplines and construction trades to gain truly integrated solutions.*

*Participants will come away with renewed commitment to making a difference, and will be armed with many real-life precedents and techniques for 'making sustainable development standard practice'.*

## **Award-Winning Sustainability Successes in Port Moody**



**Gaëtan Royer (BArch, MPI, MILE)**  
*City of Port Moody*

Gaëtan joined the City of Port Moody, City of the Arts, as its city manager in 2000, and is proud of his team's achievements. They include a first place at the 2004 International Awards for Liveable communities, a 2004 Fraser Basin Council Sustainability Award, a 2003 BC Medical Association Excellence in Health Promotion Award, a 2003 BC Recreation & Parks Association Excellence Award, and the 2001 International Mountain Biking Association (IMBA) award, among others.

Gaëtan's municipal career includes the positions of director of community services for the City of Whitehorse, where he was co-chair of the Whitehorse International Airport Development Plan Committee, and manager of planning, research and development for the City of Surrey, where he received the 1998 Consulting Engineers of BC (CEBC) Award for Excellence for the Green Timbers Artificial Lake project.

Prior to his successful career in municipal management, Gaëtan enjoyed a 22-year military career that included an appointment as base engineer at CFB Cold Lake, Canada's largest Air Force Base, and tours as a peacekeeper in Croatia and Bosnia. For his humanitarian work in Sarajevo, Bosnia, Mr. Royer was awarded the Governor-General's Meritorious Service Medal. He is a military engineer and holds a degree in architecture from Laval University and a masters in urban planning from Queen's University. Mr. Royer volunteers with various organizations such as Crossroads Hospice, Rotary Club, and the Terry Fox Run.

Gaëtan's prior speaking engagements include the United Nations Conference for the Restoration of Sarajevo in Vienna, the Governor General's Canadian Studies Conference, and the Federation of Canadian Municipalities.

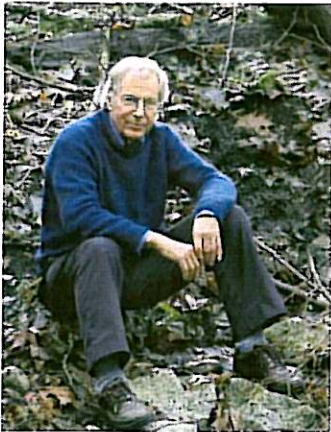
*Port Moody has accumulated a series of sustainability "firsts" over the past seven years: First western-Canadian community to adopt a pesticide ban; first place in the "Planning for the Future" category in the 2004 International Liveable Communities Awards (IALC); first in BC with a Naturescape policy; first in the Lower Mainland with an approved Energy Plan. This session will focus on how Port Moody's integrated strategic planning system contributed to a series of award winning projects and programs.*

*The system was described by the IALC's panel of international judges as a uniquely integrated tool kit for Planning for the Future and a remarkable achievement. Port Moody's competition at the IALC included Seattle, Honolulu, Prague, and 70 other finalists. The speaker will share innovative visual tools to manage an organization's development and the implementation of its strategic plan. Practical and unique interactive-government public consultation tools will also be discussed.*

*This small suburban municipality is a rare example of successful combination of eco-density, unparalleled economic vitality, and a vibrant artistic community. The city has been tracking the reductions of its greenhouse gas emissions for several years, and just completed the construction of a new police building, complete with geothermal heating. Port Moody recently completed Milestone 3 in the nation-wide Partners for Climate Protection program. A retrofit of its Recreation Centre reduced GHG emissions by 45 tons, an achievement recognized by the 2005 award from the Illuminating Engineering Society of North America (IESNA). The community has a "growing" number of green roofs under its belt, both city-owned and built by private developers. Port Moody was honoured with the 2004 Fraser Basin Council sustainability award.*

*The session will also cover key ideas from Time for Cities, currently in its final editing stage. Sub-titled Canadian cities are running out of time, Time for Cities is a timely advocacy book about the re-distribution of responsibilities, powers and revenues among levels of government.*

## **Innovative Water Resources Management**



**Hans Schreier (PhD)**  
*Professor Emeritus, University of British Columbia*

Dr. Schreier is a professor at UBC's Institute for Resources and Environment. His research focuses on watershed management, land-water interactions, soil and water pollution, and GIS. He has worked extensively in watershed studies in the Himalayan and Andean regions, as well as in British Columbia. He was recognized by the International Development Research Centre (IDRC) in 1996 for his contribution to development. He received the 1999 Manaaki Whenua Fellowship Award by Landcare Research in New Zealand. He completed the Himalayan-Andean Watershed Project, which compared watersheds in Bolivia, Peru, Ecuador, Bhutan, Nepal, and China. Currently he is co-leader of the Watershed Program of the Canadian Water Network NCE, and is a member of the Water Advisory Panel for the Columbia Basin Trust.

In 2004, he received the "Science in Action" Award from The United Nations International Year of Fresh Water, Science and Education Program for outstanding work in making watershed management knowledge and innovative, cost-effective applications possible in Canada and developing countries. He also created the distance learning-based Watershed Management Certificate Program that consists of five graduate courses in watershed management. More than 700 students and professionals from 38 different countries have so far participated in the program. For more details visit <http://www.ires.ubc.ca/personal/schreier/>

*Given the increased climatic variability and the rapid expansion of urban areas, many communities need to drastically change the way they manage their water resources. There are three major challenges: How to initiate water conservation, how to integrate water resources management in a watershed context, and how to introduce innovations into new development.*

*There is a wide range of conservation measures that have been proven to be effective in many communities and these will be highlighted. This includes not only the management of surface and groundwater, but also the management of rainwater. Very large savings can be made in terms of outdoor water use and stormwater reduction by a range of rainwater harvesting and detention techniques. Integrated watershed management will facilitate source water protection but requires that all aspects of water and land management that affect the quality and quantity of water be considered. Finally, innovative approaches are well developed and have proven to be effective, but bridging the barriers between traditional approaches and innovative approaches is difficult.*

*The presentation will highlight some of the new and innovative approaches that reduce water use, prevent water pollution, reduce the risk of flooding, and conserve aquatic resources, particularly in view of increased climatic variability. The focus will be on blue, green, and virtual water management, and arriving at a water footprint for each household and neighbourhood.*

## **Built Green™ BC Setting Sustainability Standards**



**Jennifer Shaw (BBA)**  
*Canadian Homebuilders' Association of BC*

A graduate of the University of New Brunswick with a Bachelor of Business Administration, Jennifer is the program director for Built Green™ British Columbia, a program of the Canadian Home Builders' Association of British Columbia (CHBA BC). Since 2001, Jennifer has been the driving force behind all of CHBA BC's residential

energy-efficiency programs, including R2000, EnerGuide for New Houses, and Built Green™ BC.

In 2005, Jennifer played an instrumental role in bringing Built Green™ to BC and participates in the Built Green™ BC Management Committee. She organized the successful launch of Built Green™ BC and Canada's first Built Green™ community to the public in June 2006. Jennifer also participates in the Built Green™ Society of Canada's board of directors. In addition to Jennifer's administrative role within Built Green™ BC, she also makes presentations at industry conferences, home shows, related industry associations, and to government officials.

Jennifer organizes and facilitates all Built Green™ BC training workshops, including builder and energy-advisor training courses and sales-team training.

*Built Green™ BC is a sustainability program setting standards for new homes in BC. It promotes the construction of homes that reflect the homeowners' and homebuilders' commitment to the environment, future generations, and improving the way we live. These homes are more energy efficient with improved indoor air quality. They use fewer resources and reduce the home's overall environmental impact.*

*Built Green™ BC is administered by the Canadian Home Builder's Association of BC (CHBA BC) and owned by the Built Green™ Society of Canada. It is voluntary and accessible to all members in good standing of the CHBA BC, including builders, suppliers, service providers, and developers. Only certified Built Green™ builder members can build a Built Green™ home.*

*The Built Green™ Checklist provides the program's criteria for achieving each of the three certification levels: Bronze, Silver and Gold. Builders and consumers have the flexibility to choose which checklist features or level works for them. Because of the range and number of options available under the checklist, each builder and consumer can choose to build green somewhat differently. Currently, there are:*

- 70 certified Built Green™ members in BC
- 828 Built Green™ homes in BC (400 Built Green™ homes were built in 2006 alone, which is expected to triple in 2007)
- Canada's first Built Green™ community was developed by Morningstar Homes Ltd. in the Township of Langley in 2006 (Yorkson Village — 55 homes at Built Green™ Gold standard).

## ***From Silos to Systems: An Integrated Approach to Addressing Climate Change***



**Jodi Mucha (MEM)**  
*Director, BC Healthy Communities*

Jodi brings a broad range of expertise to her position including a Masters in Environment and Management, years of experience working overseas on sustainable development projects in West Africa, New Zealand, and Egypt, and a passion for healthy active lifestyles. Her Masters thesis focused on the connections between spirituality and sustainable development and ways to mobilize them. She has a strong background in public policy research and has spent the past three years developing the e-Dialogues for Sustainable Development with Dr. Ann Dale of Royal Roads University.

**Jackie Tegart**  
*Facilitator, Interior Region*

Jackie has spent the last nine years working in community economic development and business development. She brings years of public service experience to her role as a regional facilitator, having served both as a publicly elected school trustee and municipal councillor. Working with individuals, First Nations, educators, non-profit groups, and government has reinforced her belief in the importance of holistic and inclusive decision



making. Community leadership and capacity building have been the cornerstones of her work. She is committed to healthy communities and looks forward to working with the people in her region to build on the work that has already been started.



**Kerri Klein**  
*Facilitator, Vancouver Island Region*

Over the last eight years, Kerri has been engaged in a diverse range of community development projects that aim to assess and integrate social, environmental, and economic determinants of well-being. She has extensive experience in Canada's national campus sustainability movement, working both at an institutional and organizational level to develop and implement planning and management systems for healthy campus communities. Kerri's unique background has focused around program development and facilitation that mobilizes citizens to create solutions for community resilience. She is currently working on launching the Vancouver Island Social Purchasing Portal, a community economic development tool that encourages local purchasing and increased opportunities for those facing barriers to employment.

*There is no "one-size-fits-all" approach to building sustainable, healthy communities. As communities are learning about, responding to, and adapting to climate change, they are also seeking ways to include the multiple viewpoints, perspectives, and assets that can build a shared understanding of the problem and the best direction forward.*

*"We can't solve our problems at the same level of thinking which created them"....so what will help us take our thinking and actions to the next level? Developing sustainable communities that can address climate change is not merely a scientific or technical challenge, although we still have much to learn about the impact of human activity on ecosystems. Addressing climate change will also require communities to deal with diverse interests, priorities, and needs. It will require communities to develop the capacity for meaningful dialogue, collaboration, learning, and action across disciplines and sectors. It will require a commitment to an integrated approach.*

*BC Healthy Communities (BCHC) is a provincial organization that supports communities to enhance social, environmental, economic, physical, psychological, spiritual, and cultural capacity to address the potential of the whole person within the whole community. This workshop will explore community response to climate change through the BCHC Capacity Building Framework, which focuses on community learning, community engagement, expanding community assets, and community collaboration for sustainability.*

## **Local Government Policy Tools for Energy Efficiency**



**Michael Wilson (P.Eng)**  
*Senior Energy Planner, Community Energy Association*

Michael Wilson joined the Community Energy Association in late 2005 as senior energy planner. His diverse experience ideally positions him to help local governments incorporate energy efficiency and renewable energy into land-use, transportation, buildings, infrastructure, and energy-supply decisions. Michael has been involved in the field of energy management since completing a degree in Mechanical Engineering at UBC. His experience includes commercial HVAC design, energy-efficiency engineering, demand-side management, and community energy planning. He's worked for BC Hydro, Tesco Energy Services (now Ameresco Canada), and as a principal of Enerficiency Consulting.

Notable achievements include working on some of the largest and most high-profile energy efficiency projects in Western Canada, including several C2000 projects, the Yukon Energy Centre (winner of the Canadian Energy Efficiency award for 1999), and Pacific Centre (one of the largest DOE2 computer energy simulations ever performed). He was a committee member on the BC Task Force for the Review of the National Energy Code and of ASHRAE Guideline 18P - Design Guidance for Energy Efficient Buildings, and a member of the working group for the Review of Energy Performance Measures For

Buildings In British Columbia. Michael is a registered professional engineer in British Columbia and Alberta, and is a LEED-accredited professional.



**Taylor Zeeg**  
*Community Action on Energy Efficiency*

Taylor is a project consultant for the Community Action on Energy Efficiency initiative (CAEE), an initiative managed by the Fraser Basin Council on behalf of the BC Ministry of Energy, Mines and Petroleum Resources and its partners. In this role, he conducts local government policy research for 30 local governments participating in the CAEE initiative. Taylor has done consulting work for the Canadian Geoechange Coalition on policy analysis, Parks Canada on community outreach, Natural Resources Canada on urban energy indicators, and the Sheltair Group on local government policy related to energy efficiency. He is currently completing a master's degree at UBC's School of Community and Regional Planning.

*Under the Local Government Act, municipalities and regional districts in British Columbia are unable to directly implement energy codes for buildings. Yet there are many ways in which local governments can encourage, facilitate, or even require improvements in energy efficiency and environmental sustainability. These include checklists, development permit area guidelines, district service areas, revitalization tax exemptions, and many others. An overview of these strategies will be provided, with examples of where they are being applied in BC jurisdictions. Many of these examples are a result of work by participating communities in the Community Action on Energy Efficiency program. Although initially targeted at energy efficiency, most of the tools can also be used to promote other aspects of green buildings.*

### ***Shifting Sustainability Values: Perceiving Land as a Resource***



**Dave Smith (MCIP, PIBC)**  
*Director of Planning and Development, District of Peachland*

Dave obtained his Master of Planning from the University of Manitoba, and also holds a Diploma in Public Administration from the University of Western Ontario. He has been a public-sector planner for 28 years. He worked for 12 years as Director of Planning and Economic Development in Moose Jaw, Saskatchewan, contributing to the development of a community plan and zoning, innovative floodplain management program, and downtown revitalization. He spent a further eight years in Port Alberni, BC as the City Planner, preparing an innovative new Official Community Plan, community diversification planning, housing development, design guidelines, and a Waterfront Master Plan.

Later he served as the Director of Planning for the Alberni Clayoquot Regional District. Dave also served as Director of Planning & Engineering in Fort St John, BC and as Planning Coordinator near Edmonton, where issues of rapid growth were significant. As Director of Development Services in Sioux Lookout Ontario, he assisted in the transformation of this center into a major health center for northern Ontario, including development of an \$88 million new hospital, a \$12.5 million airport expansion and planning for 750 new housing units. He is a member of the Planning Institute of BC, the Canadian Institute of Planners, and the BC Sustainable Energy Association.

*This presentation will focus on our perception of land as a commodity, and how we need to look at land as a resource. For the most part, water and air are perceived and regulated as resources, as they are necessary to sustain life. Land — also essential for life on the planet — however, is bought and sold as a common commodity. The presentation will explore how we manage and regulate land, and how our stewardship falls far short of treating land as a resource. The presentation will also revive discussions on failures of the land-development industry, imperfections in the land market, and the current crisis in affordable housing today.*

*Changes in how we do things are necessary to achieve a sustainable environment — changes in how we perceive, manage, and regulate land use and tenure must be part of that equation. Land, like air and water, is a resource: we must complete the sustainability circle. This presentation will postulate a “brave new world”; positive change and perhaps the final major leap in addressing sustainability.”*

## **Working Together For Conservation in the Okanagan**



**Tasha Sargent**  
*Grasslands Conservation Council of BC*

Tasha Sargent has a degree in Wildlife Management from the University of Northern British Columbia, and has worked in the field of non-profit environmental conservation for more than five years. She is the Stewardship Planner for the Grasslands Conservation Council of British Columbia, and is working to protect BC's endangered grasslands by working with various levels of government to incorporate grasslands stewardship into planning practices and policy changes. She is also a co-facilitator of the Okanagan Collaborative Conservation Program.

*Rapid urbanization and development of the Okanagan is creating an emerging crisis as natural habitats are reduced and fragmented in this environmentally critical area. To meet this emerging environmental crisis, more than 30 conservation organizations and government agencies have joined to form the Okanagan Collaborative Conservation Program (OCCP).*

*The OCCP aims to maintain the rich biodiversity of the area, including species at risk, and maintain a viable ecological corridor between the deserts to the south and the grasslands to the north. The OCCP will expand community involvement, promote ecological sustainable land use, enhance stewardship on private and Crown land, and negotiate acquisition of key habitats.*

*Modelled after the successful South Okanagan Similkameen Conservation Program, the OCCP will also seek strong community support and involvement to help find a balance between ecosystem requirements and human needs and aspirations. The OCCP approach is through facilitation, education, and provision of information rather than advocacy or regulation. Tasha Sargent of the Grasslands Conservation Council of BC, one of the founding partners, will speak on why the need for this important collaborative arose, the work the OCCP is and will be doing in the north and central Okanagan, and how other organizations can assist the OCCP to reach some very important goals.*

## ***Political Realities and Potential Synergies: Setting the Course for a Sustainable Future***



**Hon. Tom Siddon, P.C. (PEng, PhD)**

Dr. Siddon graduated with distinction from the University of Alberta in 1963, winning the Gold Medal in Mechanical Engineering. He went on to earn an MA Sc and a PhD at the University of Toronto. He was recently awarded an Honorary Doctor of Laws Degree from UBC Okanagan (June 8, 2007).

From 1969 to 1978, Dr. Siddon was a full-time faculty member at the University of British Columbia. He taught and directed research projects in acoustics and noise control. He also founded two engineering companies during this period, and served as a research consultant on aerodynamic noise for several U.S. and Canadian corporations.

In 1975, Dr. Siddon was elected to the city council in Richmond, BC. In 1978, he became the federal Member of Parliament for Richmond, a position to which he was re-elected in five successive federal elections between 1978 and 1993. Dr. Siddon was appointed to the federal cabinet by Prime Minister Brian Mulroney in September 1984. He served as Minister of Science and Technology (1984-1985), Fisheries and Oceans (1985-1990), Indian Affairs and Northern Development (1990-1993) and National Defence (1993).

Currently, Dr. Siddon serves as an executive member of the Okanagan Partnership and was recently elected chair of the Okanagan Water Stewardship Council. He is a director of the Okanagan Basin Water Board and alternate director (Area D) for the Regional District of Okanagan-Similkameen. He lives with his family in Kaleden, BC.

*The word "sustainability" first gained international prominence in 1987, with the publication of the Brundtland Commission Report, titled 'Our Common Future'. Faced with a rapidly expanding world population, depletion of earth's resources, and the goal of equal prosperity for all peoples, the United Nations established the World Commission on Environment and Development, in 1983. The commission was chaired by Norway's Prime Minister Gro Harlem Brundtland.*

*The Brundtland Commission proposed a 'Global Agenda for Change', predicated on an expanding and sustainable economy, producing equitable benefits for all nations, while protecting and preserving a sustainable environment. Was the Brundtland Agenda an impossible dream, or the dawn of a new awakening?*

*Some 20 years later, the problems perceived by the commission have worsened. Global warming and climate change, the depletion of earth's resources, destruction of species and their habitat, inequality, increasing poverty, and the spread of infectious diseases all pose serious threats to political stability. All demand bold political leadership. But how can a self-centred world be awakened to these undeniable new realities?*

*A major oversight of the Brundtland report was its failure to understand and address the importance of political empowerment. Governments and leaders can only be sustained if they are perceived to be doing what is right and necessary to serve the individual human needs of the societies they serve. Ample food, good health, clean water, and a safe place to live all come at the top of this list. Well-intentioned social or environmental programs do not generally lead at the polls.*

*In his remarks, Dr. Siddon will address a number of important questions. How can governments say "no" to further growth in the developed world, while promoting economic equity and prosperity in the under-developed world? How can we continue to offer a spirit of hope and optimism to emerging generations unless we sustain thousands of jobs in the energy, construction, and automotive sectors? How can we move to a less energy-dependent, more conservation-minded world without governments being thrown out of office for doing so?*

*The best remedy to these serious looming issues, short of crisis-driven solutions, is to equip our politicians and political institutions with "people power". An enlightened, participating, and informed public will support difficult political choices. But effective communication is key to enlisting public support. And successful leadership must inspire a sense of hope and self-confidence, and an awareness of new opportunities along the road to a green sustainable future.*

*Dr. Siddon will offer interesting commentary on these timely questions.*

## *The Sectoral Approach to Sustainability*

### The Public Sector's Role in Setting the Stage for Sustainability



**Don Degen**  
*Water and Drainage Manager, City of Kelowna*

Don has been with the City of Kelowna since 1990, and is currently the water and drainage manager. He is responsible for all water and drainage management functions including continuous improvement programs, long-range planning, engineering, operations, water conservation, and water quality programs.

Don is a recent past president of the BC Water and Waste Association and currently sits on the board of directors for the American Water Works Association. He has been involved in a number of collaborative water quality improvement projects and initiatives with the Ministry of Health Services, Interior Health, and the Kelowna Joint Water Committee.

Don currently chairs the City of Kelowna Energy Management Committee and is an active participant in the development of Kelowna's Community Sustainability Action Plan.

*The City of Kelowna is among the most proactive municipalities in B.C. with respect to water sustainability. Its WaterSmart program, which was introduced in 1996, has resulted in a 20 percent reduction in average water consumption. In addition, maximum-day demand hasn't increased during the same period, even though there's been a 25 percent increase in the number of customers. But given Kelowna's semi-arid climate and growing population, the city recognizes that continued diligence is required. In keeping with its commitment to being a leader in community sustainability, city council recently endorsed a plan that challenges all residents to reduce their water consumption a further 15 percent by the year 2012.*

*Because the utility is trying to reduce peak demand, the easiest way to meet this goal of 15 percent by 2012 is to enable and encourage all residents to reduce outdoor water use. This can be achieved by their applying water-wise landscape design, planting, and irrigation practices.*

*For its part, the city is developing landscape and irrigation standards for all city-owned properties and for all new residential, industrial, commercial, and institutional construction. By involving city staff, key developers, and landscape experts in facilitated discussion about the benefits of and barriers to workable standards, the utility has developed a program that meets a wide range of social, environmental, and economic needs while achieving council's consumption reduction targets.*

### The Private Sector's Role in Emerging Sustainability Practices and Partnerships



**Barry Milner**  
*Marketing Director, Geotility*

A long-time advocate for the transition to the "New Energy Era", Barry is the marketing director for GeoTility Systems Corporation, the largest comprehensive geexchange contractor in Canada. Prior to working for GeoTility, Barry owned a marketing and consulting company called Alternergy Systems, which specialized in environmentally sustainable technologies such as wind, solar, microhydro, and geexchange.

Through his position at GeoTility, Barry is engaged in many projects throughout the province that are leading the way by incorporating multiple aspects of sustainable technologies and renewable energy development. As education and exposure are critical to the successful adoption of these new (and old) technologies, Barry is constantly creating and participating in venues that promote sustainability and renewable energy.

Barry founded the Okanagan Chapter of the BC Sustainable Energy Association and presently sits on the board of directors for the Okanagan Branch of the Cascadia Chapter of the Green Building Council. As a regular guest on the Phil Johnson radio show, Barry champions the sustainability movement in the Okanagan in a weekly environmental feature "How Green is our Valley". Barry has also been appointed to an advisory committee on the environment for the City of Richmond.

*GeoTility Systems Corp. is a leader in the geoexchange industry (geothermal heating and cooling) with a head office in Kelowna and a branch office in Richmond serving the lower mainland and Vancouver Island. GSC provides a comprehensive array of services including design, engineering and installations, contract drilling, service/maintenance and a utility model financing option.*

*GSC has designed and installed geoexchange systems in communities throughout the Province of BC. The company specializes in single residential, large master planned communities, multifamily, commercial, government and industrial projects.*

*GSC has established several partnerships with other sectors including a strategic alliance with Corix Utility Services and Terasen Energy Services, sponsorship of education/training programs and facilities (Okanagan College, BCIT), design consultation with local and provincial governments, design collaboration with manufacturers of drill rigs and heat exchanger components.*

*In the future, GSC looks forward to partnering with other renewable energy and sustainable technology contractors, local governments, developers, manufacturers and suppliers to accelerate the advancement of sustainable communities.*

## The Civic Sector's Role: Smart Growth BC Advisory Services at Work in Vernon



**Jodie Sui (MUPP)**

*Manager of Advisory Services, Smart Growth BC*

Jodie is an urban planner with a focus on public outreach and implementation. She is the manager of Advisory Services at Smart Growth BC, and also directs the work of SGBC in the Smart Growth on the Ground partnership. Prior to joining the Smart Growth BC team, Jodie was a senior associate at a Chicago-area planning consulting firm. She holds a Masters in Urban Planning and Policy from the University of Illinois at Chicago, and a BComm in Urban Land Economics from UBC.

*The City of Vernon is creating a new Official Community Plan to guide it toward a sustainable future. With the help of Smart Growth Advisory Services, the city has embarked on a truly innovative OCP process, which has been designed to bring together the government, industry, citizen, and non-profit sectors for meaningful dialogue, effective communication, and informed decision-making.*

*Learn about the innovations in this OCP process, including extensive use of progressive tools such as video productions, web-based input and dialogue tools, research and key issues, and CommunityViz — a computer-based land-use modelling tool that includes exciting visual and data outputs.*

## The Academic/Innovation Sector's Role: Introducing the Okanagan Sustainability Institute

TBD

### *Indicators: A Tool to Measure and Advance Sustainability*



**Steve Litke (MRE)**  
*Program Manager, Fraser Basin Council*

Steve graduated from Simon Fraser University in 1995 with a master's degree in Resource and Environmental Management. He has worked with the Fraser Basin Council since 1998. Steve is program manager for the Fraser Basin Council's Sustainability Indicators Program. He is responsible for the preparation of the council's *Sustainability Snapshot* reports, which were released in January 2003, November 2004, and November 2006. He also contributed to the June 2005 Thompson Region indicator report, the council's first regional *Sustainability Snapshot*.

Steve collaborates with, and advises on, several indicator networks and initiatives. Some current examples include the Canadian Sustainability Indicators Network, Regional Vancouver Urban Observatory, Genuine Progress Index – Pacific, Vancouver Foundations' Vital Signs report, Columbia Basin Trust, Sustainable Region Initiative's Social Action Team, Vancouver Organizing Committee for the 2010 Olympic and Paralympic Winter Games and others.

Steve is currently working on the Fraser Basin Council's Regional Snapshots in the Upper Fraser and Lower Fraser regions, as well as the Sustainability Snapshot 4, which will be released in February 2009 at the Council's State of the Fraser Basin Conference.

*Indicators are increasingly being used by many organizations and communities as an information tool to help measure and advance sustainability. The Fraser Basin Council established its Indicators Program in 2001 to report on the state of sustainability within the Fraser River Basin and five sub-regions. Since the inception of this program, the Council has issued three basin-wide Sustainability Snapshot reports and one regional report for the Thompson Region. The purpose is to raise public awareness and to inform and influence decisions and strategies to advance sustainability.*

*This session will profile the process that the Council used to develop indicators as well as some of the unique features of the Council's Snapshot reports. Results and key findings from the most recent indicator report will be highlighted along with a discussion about how indicators can be used by a wide variety of audiences to advance community sustainability. Some of the challenges will be identified as well as lessons learned. Session participants will also learn about the council's future plans for measuring and reporting on sustainability.*

### *Toward Sustainability: Strategies for Change Within Your Organization*



**Thomas Osdoba (MA, BSc)**  
*Executive director, Canada Carbon Trust*

Prior to becoming executive director of Canada Carbon Trust, Thomas was manager of Vancouver's Sustainability Office. Prior to coming to Vancouver, he was a founding principal with E4 Partners, an environmental strategy firm focused on eco-industrial development, sustainable building design, product stewardship programs, and recycling and resource efficiency consulting.

During the 1990s, Thomas served the state of Minnesota in several capacities, from policy analyst to a strategic manager for the Office of Environmental Assistance, and helped to create Minnesota's sustainable communities program. He also served as president and treasurer for the Green Institute, and helped contribute to the development of the Phillips Eco-Enterprise Center.

He also has more than 15 years experience in environmental policy development, including seven years developing policy initiatives to promote and support sustainable development. He has extensive training and experience in process design and facilitation, as well as strategic planning and systems analysis. He grew up on a small dairy farm in rural Minnesota, has a master's degree in public policy from the Humphrey Institute at the University of Minnesota, and a degree in economics from St. John's University, Collegeville, Minnesota.

*Our cities in the 21st century must learn how to create multiple, small-scale systems to deliver ecosystem services. To do this will require just as much institutional innovation as ecological innovation. Departmental fragmentation, political and managerial culture, and the particular nature of rapid yet systemic change present tremendous barriers to local government, from political leaders through managers, and down to staff. We need to think about the 'design' of organizations as much as the infrastructure and buildings we spend so much time trying to advance.*

*And what if every neighbourhood needed no outside energy for heating and cooling buildings, produced a significant share of its electricity and fresh water, managed all of its organic waste and sewage, and produced a substantial share of its fresh food? Leading-edge planners and developers have begun to embrace this vision, which would involve nothing less than decentralizing local government services, with compelling directions to reduce our ecological impacts and improve overall performance.*

*Our future demands that we all begin to do this today.*