

<b>SWANA Day November 29 2010</b>		
<b>Sheraton Vancouver Airport, Westminster Highway Richmond BC</b>		
<b>The Overview</b>		
<b>Time</b>	<b>Topic</b>	<b>Notes</b>
0800-0900	Individual Networking Options	
0830 0900	Registration and Coffee	
0900-0915	Welcome and Overview <ul style="list-style-type: none"> <li>▪ First SWANA Day New Name and Mandate</li> </ul>	
0915-0930	Ministry of Environment Industry Product Stewardship Update	
0930-1030	Session 1 - Models and Planning "Making it More Than: 'It seemed Like a Great Idea at The Time' "	
	<ul style="list-style-type: none"> <li>▪ Financial Modelling</li> <li>▪ Top 10 Myths of Changing Behaviour</li> <li>▪ Vancouver's Greenest City Zero Waste Action Plan</li> <li>▪ The Behind the Scenes of a Plan</li> </ul>	City of Kelowna/ Mark Watt Metro/ Ruben Anderson CoV/ Monica Kosmak Metro/ Dennis Ranahan
1030-1045	Coffee Break AND Community Award Presentations	
	<ul style="list-style-type: none"> <li>▪ The Local Bard</li> <li>▪ Trashy Shorts - City of Port Moody</li> <li>▪ Crystal Moose - Sperling Hansen</li> </ul>	
1045-1130	Session 2 - Organics Programs "Redefining Green Collection"	
	Listen and get questions ready for the folks who are among the first in BC to roll out carts and integrate food waste plans	CRD/Anke Bergner Metro/ Andrew Marr RDN/Jeff Ainge
1130-1215	Session 3 - Community Needs "One size does NOT fit all- Small and Rural Communities and Events Experience"	
	<ul style="list-style-type: none"> <li>▪ SSI Community Depot</li> <li>▪ SMALL Rural Landfill</li> <li>▪ Sporting and Large Community Events</li> </ul>	Salt Spring Island /Peter Grant SHA/ Dr. Tony Sperling Metro/ Dan Hajdukovic and Carrie Hightower CVRD/ Bob Macdonald
	<ul style="list-style-type: none"> <li>▪ Diverse Community Needs</li> </ul>	
1215-1330	Plenary and AGM <ul style="list-style-type: none"> <li>▪ Presentation by Mayor Greg Moore Chairperson of Metro Vancouver Waste Management Committee – What Metro's Solid Waste Management Will Mean to the Community</li> <li>▪ AGM Agenda including 5 Scholarship awards</li> </ul>	

1330-1530	<b>MoE Consultation Workshop</b> <b>LFG Management Facilities Design Guidelines</b>  Presentation by Ministry of Environment Staff – Natalia Kukleva Deacon Liddy CRA Panellists and Round Table	Panel Peer Review Group and Practitioners  RDN/Helmut Blanken and Michel Lefebvre CRD/Tom Watkins City of Vancouver/Lynn Belanger SHA/ Dr.Tony Sperling GNH Engineering/ Greg Huculak CH2M Hill/ Chuck Smith SCS / Eric M. Sonsthagen.
1530-1600	<b>Wrap-up Networking Session</b> Coffee, Tea, Fruit and No Host Bar	
1600-1700	<b>Yukon Delegates Meeting</b>	

## SWANA Day - The Details

### Presentations

#### Dennis Ranahan - Metro Vancouver

Dennis has been involved with Solid Waste Management in Metro Vancouver for 14 years, the last two years of which have focused on the development of their Solid Waste Management Plan

On September 1, 2010, Metro Vancouver submitted its Integrated Solid Waste and Resource Management Plan to the Ministry of Environment. In support of the 40 page plan, an additional 8,000 pages of documentation was submitted outlining the results of the most comprehensive consultation program ever conducted by Metro Vancouver and the technical studies that were used in the development of the plan. This presentation will look behind the 40 pages of the plan and provide some insight into the plan development and consultation processes.

#### Monica Kosmak - City of Vancouver

Monica is Program Manager, Zero Waste Planning for the City of Vancouver. Monica has worked in the area of waste reduction since the 1990's in the Metro Vancouver area.

Vancouver's Greenest City Zero Waste Action Plan .Create zero waste. Eliminate dependence on fossil fuels. These are just two of the City of Vancouver's ten goals for becoming the world's greenest city by 2020. This presentation will give a taste of waste reduction initiatives proposed in Vancouver's draft Greenest City Action Plan

### **Rueben Anderson- Metro Vancouver**

Ruben is a Communications Specialist at Metro Vancouver, focussing on Behaviour Change. He has worked on food scraps recycling, developing new cognitive frames for wasting, the Zero Waste Action Plan, and building a pumpkin-recycling catapult--but he is most proud of the 250% increase in recycling at a 200 unit Multi Family pilot project site.

Presentation "The Ten Myths of Behaviour Change" will quickly touch on common misconceptions about how to change behaviour, why these ideas are wrong, and present a framework for effectively changing behaviour

### **Jeff Ainge - Regional District of Nanaimo**

Jeff is the Zero Waste Coordinator with the Solid Waste Department of the Regional District of Nanaimo (RDN), situated on the east coast of Vancouver Island, BC. Jeff joined the Solid Waste Department in 2007 after 10 years in the RDN parks department.

A New Zealander by birth, Jeff is reasonably new to the solid waste field. He has worked in the transportation field, as well as spending many years in various parks, outdoor recreation and wildlife conservation positions. Jeff studied Parks and Recreation Management at Lincoln University (NZ).

Jeff is responsible for coordinating the residential curbside collection programs for the Regional District, and took a leading role in the planning and implementation of the new curbside food waste collection service recently launched to over 25,000 households.

He is a seasoned traveler who spends his spare time dreaming up trips to new destinations and his current passion includes trekking in Nepal, which he occasionally gets to make reality. Jeff is a director on the board of the Coast Waste Management Association and is enjoying coming to grips with the various complexities of solid waste management.

### **Anke Bergner – Capital Regional District**

Introduction Bio Pending

### **Andrew Marr – Metro Vancouver**

Andrew is a Senior Engineer in the Integrated Planning Division at Metro Vancouver. His background is in Chemical Engineering from the University of BC. He's worked for the private sector in the fields of rechargeable battery research & development, and in hazardous waste management before joining Metro Vancouver in 1991. Over 19 years with Metro Vancouver, he has worked primarily in Solid Waste, including the 1995 Solid Waste Management Plan and has specialized in waste reduction and recycling. He has also worked in the areas of Water demand reduction, and environmental monitoring and management programs for liquid waste.

Presentation- Organic waste diversion, and particularly food waste diversion, is a key part of Metro Vancouver's new Solid Waste Plan. Since the City of Port Coquitlam started single family food scraps collection in 2008, other municipalities have been anxious to start. To help design those new programs, Metro Vancouver carried out a Food Scraps Recycling Demonstration Program with several member municipalities. The program tested different communications materials, participation, collection methods and frequencies, to develop guidelines that other municipalities could adopt and implement.

### **Peter Grant - Salt Spring Island Recycling**

Peter was born in Oslo, Norway and was raised in Montreal, where he attended McGill University. Upon graduating (BA - major in English) , he moved to Calgary. He has been involved in the hospitality industry owning hotels and restaurants both in Alberta and British Columbia. He worked in the oil patch in Alberta for a decade and operated his own business, PDQ Services LTD. which supplied well testing data analysis for

oil companies. He has retired several times but it has never lasted too long.

He moved to Salt Spring Island in 1984 and has been with Salt Spring Island Community Services Society for 18 years as Manager of the Recycling Depot.

Presentation Small Community Recycling Centre

**Dr. Tony Sperling, P.Eng. Sperling Hansen Associates**

Dr Sperling is the President of Sperling Hansen Associates, a well established solid waste engineering services consultancy in North Vancouver, British Columbia. Leading a team of sixteen skilled and enthusiastic design professionals, he has been involved in more than 1,000 landfill and solid waste planning projects in B.C. during the past 20 years. Landmark projects completed under his direction include the \$11 million Phase 1 Closure Project at Vancouver Landfill, Nanaimo's Geogrid Berm expansion and Hartland's innovative leachate collection system, amongst many others. Dr. Sperling was selected by Environment Canada (in partnership with SLR) to develop new Best Management Practices for Landfills in Canada. As well, Dr. Sperling is currently working with the B.C. MOE to update the B.C. Landfill Criteria

SELF MANAGED CONSTRUCTION APPROACH – A Better Way to Deliver Landfill Infrastructure Projects Using practical examples from recently completed projects at 7-Mile Landfill in Port McNeill, Salmon Arm Landfill and Islands Landfill in Haida Gwaii, this presentation showcases some of the significant benefits that have been realized by Regional Districts in adopting the Self Managed Construction Approach (SMCA), rather than the more traditional Tendered Contract. In the SMCA, a dedicated Contract Manager coordinates project execution. Supported by the Engineer, the Contract Manager then hires local equipment and labour together with specialized sub-contractors for critical elements such as geomembrane installation and pipe fusing to deliver the project.

The Self Managed approach allows for maximum utilization of local resources, with a large portion of tax dollars staying right in the community. As well, this approach allowed tapping into the provincial Job Opportunities Program for displaced forest workers (JOP) on two of the projects. Flexibility in making design changes on the fly is another key benefit of SMCA, increasing the likelihood that a project is going to be delivered on schedule and on budget.

**Bob McDonald - Cowichan Valley Regional District**

Diverse Community Needs  
Introduction Bio Pending

**Dan Hajdukovic and Carrie Hightower – Metro Vancouver**

Sporting and Large Community Events  
Introduction Bios Pending

## Plenary Session Speaker



# Mayor Greg Moore



- Elected as Port Coquitlam's 15<sup>th</sup> Mayor in November 2008
- First elected to Council in November 2002 and re-elected in 2005
- Director, Metro Vancouver Board of Directors
- Chair, Metro Vancouver Waste Management Committee
- Committee Member, Metro Vancouver Finance, Intergovernmental, Policing Issues, and Regional Planning Committees
- Chair, Finance and Intergovernmental Committee
- Over 10 years municipal government experience as a Port Coquitlam City employee in Parks & Recreation and Development Services Departments
- Lifelong resident of Port Coquitlam
- Married to Erin with one daughter, Madison

### *Volunteer Activities*

- Board Member, HR MacMillan Space Centre Board of Directors
- Co-Chair, Capital Fundraising Task Force, New View Society
- Past Board Member, Port Coquitlam Heritage and Cultural Society
- Past Chairperson, Terry Fox Hometown Run
- Past Chairperson, North East Sector Stream Stewardship Committee

### *Education*

- Masters of Business Administration (with emphasis in Digital Technology), Royal Roads University
- Bachelor Degree in Urban Geography/Planning, Simon Fraser University

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

## **MoE Consultation Workshop**

### **Deacon Liddy, P.Eng. MBA – CRA**

Deacon is a professional engineer and project manager based out of CRA's Vancouver office. Mr. Liddy works with municipalities and other owners of solid waste management systems in British Columbia to design, operate and maintain solid waste infrastructure and environmental controls to meet regulatory requirements cost effectively.

Presentation -The recently released the LFG Management Facilities Design Guidelines. This presentation will present a framework for designing a landfill gas collection and combustion system that meets the design, operation and performance standards presented in the Guidelines. The presentation will walk through the conceptual design of a landfill gas collection system from base survey and landfill gas generation curve to obtaining carbon credits.

### **Natalia Kukleva**

Natalia Kukleva, M.Eng., P.Eng. – Mrs. Kukleva is a professional engineer working for BC Ministry of Environment. Mrs. Kukleva provides legislation development and policy review for ensuring sustainable solid waste management in BC. She works on the development of standards and long-term goals pertinent to management of solid waste and GHG reduction from this sector. She is a team lead on Landfill Gas Management Regulation development and implementation.

Presentation - The Landfill Gas Management Regulation which establishes province-wide criteria for landfill gas capture from municipal solid waste landfills. The ministry committed to the development of guidance documents for all aspects of the new regulation such as the assessment procedures for LFG generation, the design of landfill gas management facilities and their operation and best management practices for further GHG emissions reductions. Recently MOE completed and posted on the Ministry website the LFG Management Facilities Design Guidelines. Presentation will highlight the major requirements and recommendations for the design and operation of LFG Management Facilities and performance standards ensuring to implement high-efficiency and safe LFG Management systems

## **Panelists**

### **Dr. Tony Sperling, P.Eng. Sperling Hansen Associates**

Tony is the President of Sperling Hansen Associates, a well established solid waste engineering services consultancy in North Vancouver, British Columbia. Leading a team of sixteen skilled and enthusiastic design professionals, he has been involved in more than 1,000 landfill and solid waste planning projects in B.C. during the past 20 years. Landmark projects completed under his direction include the \$11 million Phase 1 Closure Project at Vancouver Landfill, Nanaimo's Geogrid Berm expansion and Hartland's innovative leachate collection system, amongst many others. Dr. Sperling was selected by Environment Canada (in partnership with SLR) to develop new Best Management Practices for Landfills in Canada. As well, Dr. Sperling is currently working with the B.C. MOE to update the B.C. Landfill Criteria.

Tony is passionate about landfills and training operators to run first class facilities is high on his priority list. Years ago Tony developed the B.C. Qualified Landfill Operator Course, a course that has since become a Certification Program managed by SWANA B.C. Yukon Chapter. Each year Tony also partners with SWANA Silver Spring to deliver courses on Landfill Fire Risk Management and the coveted MOLO Course. In recognition of his efforts, SWANA recently honoured Tony with the On-Line Trainer Excellence Award for 2010.

### **Chuck Smith P.Eng - CH2M Hill**

Chuck is a professional engineer registered in Alberta & B.C. and a senior project manager/technical lead with CH2M HILL Canada Limited in Calgary. He is part of CH2M HILL's global Integrated Waste Solutions group and specializes in Landfill Gas Management and LFG-to-Energy (LFGTE) project development. Chuck provides professional consulting services within the waste management industry for both the public and private sectors with over 20 years of hands-on experience in LFG assessment, control, processing, and utilization system design. One of Chuck's career highlights includes development of the first commercial scale LFGTE facilities in China

He has been involved in design and operations of LFG management systems in Calgary, Edmonton, Vancouver, and Kelowna, including numerous international projects.

Chuck was a member of the Landfill Gas Working Group established by Alberta Environment in developing the Technical Guidance for the Quantification of Specified Gas Emissions from Landfills document under the Specified Gas Emitters Regulation in Alberta.

Long time active member of SWANA and the LFG Technical Division, and has served as a Director with the SWANA-Northern Lights Chapter.

#### **Eric Sonsthagen PE SCS Engineers**

Eric joined SCS Engineers in 2006 and has been working in the environmental and solid waste engineering field since 2003. Mr. Sonsthagen's experience includes landfill gas collection and monitoring well design, installation, and monitoring; permitting; and environmental site assessments.

#### **Greg Huculak - GNH Engineering**

Introduction Bio Pending

#### **Helmut Blanken – Regional District of Nanaimo**

Superintendent, Engineering & Disposal Operations- Regional District of Nanaimo

Graduated from University in 1980 in Germany, worked in the waste management, landfill construction and operation since then. Project Manager for design, construction and operation of LFG systems since 1985. Managed landfill with LFG collection system and LFG utilization from 1985 to 2001 in Germany. Member of advisory board for Safety Regulations for Landfill Construction and Operation in Germany.

Worked with UMA (AECOM), Edmonton as design engineer from 2005 to 2008 and now working with the Regional District of Nanaimo as Superintendent Engineering and Disposal Operations since February 2008

#### **Lynn Belanger P.Eng - City of Vancouver**

Introduction Bio Pending

#### **Tom Watkins – Capital Regional District**

Introduction Bio Pending