

Message from the President

It has been a great year for our chapter; we have had a very successful conference in Edmonton and trained and certified more people than any other year. I would like to take this opportunity to thank our staff for all the hard work they put into our conference, as well as thank the staff of the City of Edmonton for their help. With respect to the e training program, I would also like to thank our staff and faculty for their efforts. Without our experienced and dedicated trainers our training would not be the great success that it is.

I also would like to take time to thank all the SWANA members from our chapter and SWANA International for their generous help and guidance to southern Alberta in dealing with the floods. It was great to see Jim Lapp, Tom Moore and Tammy Nygard helping out the Municipal District of Foothills Landfill dealing with the massive amounts of debris they were (and still are) receiving. Our chapter had started setting up a Disaster Response team consisting of all the members that had experienced a disaster in the past and this proved to be very helpful in southern Alberta.

I am looking forward to seeing all of you at our Conference in Regina in 2014, where we have partnered with the Saskatchewan Waste Reduction Council to "Solve the Puzzle Together".

Dick Ellis
President, SWANA NLC

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of North America

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Featured articles

Another Advanced Technology in Edmonton

The City of Edmonton was recently confirmed as recipient of a \$10M grant from the CCEMC towards the \$30M construction cost of a new organics processing facility to complement other technologies at the Edmonton Waste Management Centre.

The Edmonton High Solids Anaerobic Digestion Facility will process 40,000 tonnes per year of organic solid waste. Anaerobic digestion processes utilize microorganisms to break down biodegradable material in the absence of oxygen. The process produces biogas, which in its composition is quite similar to landfill gas.

Renewable energy can be produced with the biogas and greenhouse gas emissions are reduced by displacing fossil fuel sources for energy, and by avoiding landfill methane emissions. The Edmonton facility will be fully integrated into the existing facilities at the Edmonton Waste Management Centre.

The project was developed in a partnership between the City of Edmonton and the University of Alberta, which is also contributing almost \$800,000 to the total capital cost, and will focus on processing residential, industrial, commercial,

and institutional organic solid waste materials into renewable energy and value-added products.

The project is a good fit with the University's initiatives in responsible environmental programming and provides a value-added way to process the considerable volumes of organic wastes produced in food preparation at the various campuses.

Engine-generator sets will use produced biogas as fuel to produce electricity to be sold as "green power" into the utility power grid and produced heat will be beneficially used at the Edmonton Waste Management Centre within other processes and for space heating. The Edmonton High Solids Anaerobic Digestion Facility is expected to generate 8.6 million kWh of electrical and 34,300 Gigajoules (GJ) of thermal energy per year. In addition, on an annual basis, 16,000 tonnes of compost will be produced by further processing the solid organic residuals and greenhouse gas emissions will be reduced by approximately 40,000 tCO₂e.

Edmonton's Waste Management Services utility is currently evaluating technology providers and project delivery mechanisms for the construction of the High Solids Anaerobic Digestion Facility. The facility is expected to begin operations in 2016.

Bud Latta - SWANA NLC Treasurer

Solid Waste Industry Hazards put it in the top 6 in US for dangerous occupations.

Municipalities need to ensure that managers, supervisors, operators and folks on the ground have the training, skills, mindset and desire to leave the workplace after every shift free of pain, discomfort or injury.

How do we get such assurance? By recognizing that risks exist, and doing those things that will mediate risk to the fullest extent possible. By investing time and energy into awareness and training campaign and directing our focus toward making individuals competent in the work that they do.

This is a major undertaking. But the results will be worth the effort. Competent managers are in a position to give guidance to competent supervisors who in turn can direct competent staff and every one along the way has the confidence that their work can be achieved safely and with highly productive outcomes. And we all can go home in one piece to our families.

Oh, and by the way, if you haven't gotten your winter tires on. Now is the time.

Roland Rusnell - SWANA NLC Saskatchewan Director

Alberta Flood 2013

SWANA members often find themselves playing pivotal roles in dealing with crises that from time to time afflict the communities they live and work in. Below is a frank and personal account of one such incident from an active member of the SWANA Northern Lights Chapter. John Deagle did what needed to be done, with the help of his staff and the support of fellow SWANA members. If you've ever questioned the value of SWANA membership or the value of the relationships that membership leads to – read this experience from John Deagle, one of our board member.

June 20th - myself and Richard Lehouillier from Marcel Equipment were receiving awards at the 2013 SWANA Northern Lights convention in Edmonton. The Municipal District (MD) of Foothills declared a Local State of Emergency at 9:20 am. E-mails about the flood from Foothills MD employees stopped at 3:20 pm. I assumed the flood was under control. The late television news was disturbing with the filming of the Town of High River. Myself and our landfill assistant manager Joe Angevine left the SWANA convention in Edmonton early on June 21st. heading for our landfill located between Okotoks and High River. Other SWANA members left about the same time including Paul Ryan from Exshaw, and Dick Ellis from Vulcan. Each of us and Tom Moore from Slave Lake were offering support to each other and the promise of help where we could.

Joe and I reached Calgary and went as far as La Farge Industries on Deerfoot Trail before we were encountering flood water on the Deerfoot trail. We did not make it to the landfill that day. We discovered the MD e-mails stopped due to our IT department being under six feet of water at the administration office in High River with our IT manager in the administration building for forty-eight hours straight trying to keep communications going for the emergency crews.

Our Foothills Regional Services Commission consists of the Town of Okotoks, the Town of High River, the Town of Nanton, the Town of Black Diamond, the Town of Turner Valley and the MD of Foothills. Our landfill is operated by the Commission. The only Commission member not impacted by the flood was the Town of Nanton.

Flood related waste materials started arriving at the landfill June 22nd from the commission members with exception of Nanton and High River. We opened the landfill twelve hours a day seven days a week in anticipation of flood waste. Tom Moore from the town of Slave Lake was in communication daily offering advice and support. He also sent 3,000 Waste Management Bagsters to distribute. We offered them to our commission members as well as to Paul Ryan in Exshaw. Communication with officials and workers in the town of High River was inconsistent. Our telephone service was limited to two land lines and cell coverage was unreliable. The town was off limits to everyone but emergency crews, the Army and RCMP. We tried to enter the town to assess the waste types and volumes we were going to have to landfill. We were turned away by the RCMP.

June 30th the Alberta Emergency Services were now in charge and held the first meeting at the Emergency Operations Center (EOC) in High River at 11:00 am. We met at the EOC daily for the next 45 days. The EOC opened the town to the residents and commercial haulers working for the EOC in the NW Sector. The residents and commercial haulers caused a major traffic jam that first day. The commercial haulers could not place bins as they couldn't drive down the streets. The streets were plugged with vehicles and trailers trying to be loaded by the residents. We received a few half ton trucks and small trailers until 7:00 pm and the EOC shut down the commercial haulers for the night. The EOC learned from that first day and staged opening other sectors in the town by allowing the commercial haulers twelve hours advance access to set up front end bins and roll off bins in the streets before allowing the residents to return.

July 1st the day from hell. It was a holiday, limited communications, no traffic control, 320 C and we were open for 16 hours a day seven days a week. It was taking us 90 seconds plus to process a load coming across the scale both inbound and outbound. The EOC ordered us to open 24hrs a day seven days a week. This was unacceptable to us and we asked SWANA members for help. Safety was the big issue not only for our employees and customers but truckers were working over their hour limit. A request for help was extended by Sherri Praski to all SWANA Northern Lights members. The request resulted in a twofold benefit. Jim Lapp of the City of Edmonton was the first to

show up, Pat Silworsky from Mountain View came and operated an 826 compactor, Tammy Nygaard from Drumheller also showed up for a week. Dick Ellis was back and forth from Vulcan County bringing soup and sandwiches and Tom Moore was still calling in daily. Sherri's request hit the Premier's office and more reasonable hours were put in place. We adjusted our landfill hours to 12 hours a day (truckers limited to 13 hrs.). Most of our employees were also flood victims and some even today have not been able to, move back to their homes. We offered them 12 hrs. a day for three days straight with four days off to attend to their homes. Sunday was an optional overtime day. We contracted out traffic control and hired an ex- London bobby to manage the traffic controllers. Richard Lehouillier from Marcel Equipment was able to rent us an 836 compactor that solved our extra volume and compaction needs. Gerry Bourassa was brought out of retirement to become our "clerk of the works" looking after contractors, fridges, freezers, and freon removal.

We were able to develop new efficiencies to our systems and operations. We were able to reduce our time on the scale from 90 seconds to 14 seconds. This was a major development from a safety issue as well. At 90 seconds we had vehicles lined up on the highway for a kilometer. Volker Stevin was assisting in traffic control on the highway. Moving traffic off the scale quicker we were able to alleviate this problem.

One of our greatest challenges was the fridges. In the month of July we removed the Freon and recycled 7,358 fridges and freezers. Rob Arnold of K&K Recycling crushed and hauled over 800 tonnes of metal from the flood that included mainly fridges, freezers, furnaces, and duct work.

We were also pro-active in setting up air quality monitoring, soil sampling and analysis of sludge and silt, for the protection of our customers and employees. We handled over 50,000 tonnes of flood related materials in the month, 41,000 tonnes from the Town of High River. This resulted in the reduction of our airspace by one year.

The flood waste is still coming into the landfill with the demolition of uninhabitable homes containing asbestos about to start. We expect flood related materials to continue for at another six to nine months.

The Foothills Regional Services Commission owes a debt of gratitude to those individuals and municipalities that came to our aid in the hour of our need. Special thanks to SWANA Northern Lights Chapter and Sherri, Tom, Jim, Dick, Tammy and Pat and from Alberta Environment and Sustainable Resource Development Dave Whitfield, James Jorgensen and Giselle Beaudry, who were with us ready to help with any regulatory problems and advise on any environmental issues. Dave and I spent many late nights at the site and on the phone planning how to solve problems. Dave also brought Minister Diana McQueen to our facility to see for herself, the volume of waste being handled by our staff.

By John Deagle C. Tech. Sr. (2013), C.E.T. Sr. (2011)

Introduction of the New Board

Darryl Drohomerski is the Manager of Solid Waste Services for the City of Winnipeg, Darryl has worked in the Solid Waste Services Division since 2001. Prior to becoming Manager, Darryl was the line supervisor responsible for both recycling and diversion activities and garbage collection services. Before coming to Solid Waste Services, he worked on many exciting projects over 10 years in Engineering Services with the City's Water and Waste Department, including the design of the new drinking water treatment plant. Prior to joining the City of Winnipeg, Darryl worked for a private consulting firm managing large civil construction projects throughout Manitoba. Away from work, Darryl is a highly competitive racquetball player and completely uncompetitive golfer. Welcome Darryl as the new Manitoba director!

Carol Nelson is a Waste Management Specialist with the waste policy section of Alberta Environment and Sustainable Resource Development (ESRD); Carol has been working with the department since 2012. Since 1998 she has held many titles: scale clerk, surveyor, load inspector and Environmental Engineer. Carol has worked on waste acceptance protocols, hazardous waste identification, and leachate & gas management working with both industrial and MSW landfills. Carol holds a professional designation through APEGA, is an Alberta landfill certified operator, and is a member of SWANA. We look forward to having Carol involved in SWANA as our Alberta Government Advisory Director. Welcome Carol!

Rick Billington has been with the City of Calgary for 28 years. He started in 1984 as a summer job with roads and transferred to Waste & Recycling Services and became a foreman in 1989. In 2003 Rick became the Superintendent of Operations and was in charge of Commercial Operations from 2003 - 2005. In 2006, the City of Calgary split the duties of Collection and Disposal and Rick was put in charge of Spyhill Collection Operation. In 2009 he became Superintendent of Shepard Collection Operations.

Rick has been a SWANA member for a number of years and has wanted to get more involved and looks forward to working with SWANA as the Northwest Territories Director. Welcome Rick!

2013/2014 Board Structure

Executive

President – Dick Ellis
 Vice President – Susan Harty
 Past President – Ian Broome
 Treasurer – Bud Latta
 International Board Representative – Jim Lapp

Alberta

Alberta Director – John Deagle
 Alberta Director – Tom Moore
 Alberta Corporate Director – Lindsey Haag

Saskatchewan

Saskatchewan Director – Michele Lefebvre
 Saskatchewan Director – Roland Rusnell
 Saskatchewan Corporate Director – Bill Cummins

Manitoba

Manitoba Director – Jacques Trudeau
 Manitoba Director – Darryl Drohomerski
 Manitoba Corporate Director – Vacant

Northwest Territories

NWT Director – Rick Billington
 NWT Director – Dennis Althouse
 NWT Corporate Director – Paresh Thanawala

Regulatory Updates

Alberta Proposes Designated Materials Recycling Regulation

http://environment.alberta.ca/documents/Webpage_2013-09-11_FINAL_-_Proposed_Reg_Summary.pdf

The proposed changes are intended to reduce provincial waste, streamline our regulatory framework and shift end-of-life management costs from taxpayers to those that produce and use designated products (i.e., materials that are included under a recycling or stewardship program through regulation). The proposed new regulation – the Designated Materials Recycling Regulation – will advance initiatives outlined in Alberta’s Too Good to Waste strategy, better align our approach with neighbouring provinces, and support development of extended producer responsibility programs as outlined by the Canadian Council of Ministers for the Environment. Key features of the proposed regulation are:

- Consolidation of eight existing recycling regulations
- Removal of specified environmental fees
- Expand on electronics recycling
- Enable extended producers responsibility (EPR)
- Designate two materials that will require EPR (packaging and household hazardous waste)

Saskatchewan Environmental Code

<http://www.environment.gov.sk.ca/Default.aspx?DN=5747e3cd-9259-484a-9952-fob4cd5f12e3>

Comments from the public consultations workshops have been considered and the draft code is now going through the final regulatory approval process. The code is expected to be proclaimed shortly. The landfill and transfer station codes have been drafted for management of wastes. Input from the Saskatchewan Association of Rural Municipalities is being reviewed. A key requirement in the codes is to have design and environmental management plans reviewed by Qualified Persons”.

Summarized by Paresh Thanawala, Chair Marketing Committee

Scholarships

Grant H. Flint International Scholarship Awards In an effort to promote education and professional development, the Solid Waste Association of North America established the Grant H. Flint International Scholarship Awards Program. Eligible candidates must be sons, daughters, grandsons or granddaughters of a SWANA Member (sponsor) in good standing as of May 1st each year. SWANA Student Members in good standing are also eligible for Category II and The Robert P. Stearns/SCS Engineers Scholarship Award Category.

Your Northern Lights Chapter Awards Committee will make a selection from the submissions in Category I and Category II for the respective \$500 awards. Selected submissions will be forwarded to SWANA in consideration for the coveted Grant H. Flint International Scholarship Award(s).

Applications for 2014 are available at www.SWANA.org/awards/scholarships. You can reach the chair of the NLC Scholarship Committee by email roland.rusnell@swananorthernlights.org

Good luck and good learning!

Roland Rusnell

Training

Fall Training

Landfill Operator Basics (LOB)
November 19 - 20, 2013 – Fort McMurray, AB

Winter Training

- Manager of Landfill Operations (MOLO)
January 13 – 16, 2014—Saskatoon, SK
- Landfill Operator Basics (LOB)
February 1—2, 2014— Calgary
- Landfill Operator Basics (LOB)
February 3—4, 2014 – Calgary, AB
- Landfill Operator Basics (LOB)
Date TBA – Saskatoon
- Manager of Landfill Operations (MOLO)
Date TBA – Winnipeg

Alberta Landfill Facility Operator Exam Sitings

November 21, 2013—Fort McMurray, AB
February 5, 2014 – 2 sittings (9-12 & 1-4pm) - Calgary, AB

For more details including registration forms, course descriptions, pricing and location information please visit http://www.swananorthernlights.org/training_upcoming.html

New Member Recognition

For over 40 years, SWANA, The Solid Waste Association of North America, has been the leading professional association in the solid waste management field. SWANA's mission is "to advance the practice of environmentally and economically sound management of municipal solid waste." SWANA serves over 8,000 members and thousands more industry professionals with technical conferences, certifications, publications and a large offering of technical training courses.

SWANA Northern Lights would like to recognize our newest members:

Babajide	Ladipo-Ajayi	
Brie	Bennett	City of Regina
Lee	Chambers	Regional Municipality of Wood Buffalo
Shane	Chrapko	Himark BioGas
Kim	Craig	Southern Alberta Energy-from-Waste Association
Kenneth	Crerar	Town of Banff
Bill	Cummins	Nortrux Inc.
Roberta	Engel	City of Regina
Curtis	Faucher	University of Alberta
Mara Jean (Molly)	Fyten	Lac La Biche
Jamie	Garland	Town of Redcliff
Becci	Garrick	Envirocon Environmental Services
Matthew	Grant	Enerkem
Mary	Hughes	DBS Environmental
Ron	Knoedler	Southern Alberta Energy-from-Waste Association
Jason	Kruczko	Quantum Murray
Rich	Lagani	City of Regina
Tammy	MacCormack	City of North Battleford
Tiarra	McNutt	Rocky Mountain Regional
Johnny	Michasiw	Municipality of Shoal Lake
Robert	Pohl PLAP	Regional Landfill Authority
Ed	Rowinski	City of Winnipeg
Paul	Ryan	Southern Alberta Energy-from-Waste Association
Shaun	Salmon	Ecowaste Industries
Doug	Skriver	Town of Redcliff
Bob	Soltesz	City of Medicine Hat
Matthew	Steele	CH2M Hill
Cyril	Wilson	CUPE Local 37
Kentson	Yan	University of Alberta

Upcoming Events

Canadian Waste & Recycling Expo	November 20-21, 2013—Palais de Congr�s, Montreal, QC contact: 403.589.4832 www.cwre.ca
"Compost: Nature's Way to Grow!" 22nd Annual Conference and Tradeshow of the US Composting Council	January 26-29, 2014—Oakland, CA contact: 301.897.2715 www.compostingcouncil.org
"Agricultural Plastics Recycling" , 14th Annual TPSA Conference, hosted by The Pesticide Stewardship Alliance	February 4-6, 2014—San Diego, CA contact: 314.849.9137 tpsalliance.org
29th International Conference on Solid Waste Technology and Management	March 30 - April 2, 2014—Philadelphia, PA contact: 610.499.4042 www.solid-waste.org
Southeast Recycling Conference & Trade Show (SERC 2014)	March 9-12, 2014—Destin, FL contact: 1.800.441.7947 southeastrecyclingtradeshow.com
2014 Plastics Recycling Conference , presented by Resource Recycling	March 11-12, 2014—Orlando, FL contact: 503.233.1305 Ext. 117 www.plasticsrecycling.com
2014 SWANA Landfill Symposium and Landfill Gas Symposium	March 24-27, 2014—Monterey, CA contact: 301.585.2898 www.swana.org
"Resourceful Solutions from Sea to Sea" , SWANA's 7th Canadian Waste Resource Symposium	April 2-4, 2014—Richmond, BC contact: 301.585.2898 www.swanabc.org
SWANA / SWRC Waste RE2014 Forum Co-Conference	May 7-9, 2014 – Regina, SK www.swananorthernlights.org office@swananorthernlights.org
"Closing the Loop: Preventing Waste Through Sustainable Enterprise" , 2014 Recycling Council of BC Conference	May 28-30, 2014—Whistler, BC contact: ben@rcbc.ca www.rcbc.ca
International Bioenergy Conference and Exhibition	June 11 - 13, 2014—Prince George Civic Ctr, Prince George, BC Ph: 250-961-6611 Email: info@bioenergyconference.org
2014 Recycling Council of Alberta Waste Reduction Conference	October 1-3, 2014—Lake Louise, AB contact: 403.843.6563 info@recycle.ab.ca



SWANA's Northern Lights Chapter and Saskatchewan Waste Reduction Council are hosting a joint conference May 7-9, 2014, at the newly-renovated Hilton DoubleTree in Regina, Saskatchewan. Participants are expected from across Canada and the United States. Come to Regina to join your SWANA Chapter and the Saskatchewan Waste Reduction Council as they team up to find solutions to today's waste management and recycling puzzles. Exciting keynote speakers and engaging presentations in three streams of sessions plus face time with industry representatives at the large tradeshow ensures there is something for everyone. Two technical tours, a workshop or a round of golf; you choose the way you want to start your week with us in Regina.

For more information on the conference, visit www.swananorthernlights.org or www.saskwastereduction.ca.

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 (SWANA NLC)