



**Strathcona
Industrial
Association**

CAER

WINTER
2007

community awareness emergency response

NEWS

Join us for:
Sherwood Park Safety Fair
Sherwood Park Mall
Saturday, January 19th

www.sia.ab.ca

Message from the SIA President



Chris Jager

Welcome to the winter edition of CAER News. As 2007 draws to a close, the SIA Board members and I extend to you our very best wishes for a safe and happy holiday season.

The SIA has had many successes in 2007. Our members are participating in and promoting the UPDATEline

1-866-653-9959, a 24 hour information line to communicate non-routine activities at our members' sites that the community may be curious about.

Our work continues with the Clean Air Strategic Alliance, Alberta Environment, area municipalities and a number of other stakeholders on development of the Alberta Central Airshed Society for the capital region. While this new multi-stakeholder group develops, the SIA continues to operate our established air monitoring network. The annual public report of this air monitoring program will be available in early spring.

We hosted three CAER Fairs this year. Nearly 3000 people attended these events, learned about industry and enjoyed breakfast with the SIA. Please watch future editions of CAER News for dates and locations of CAER Fairs in 2008.

CONTINUED INSIDE

2006 Annual Summary available at www.sia.ab.ca or call 429-CAER (2237).



Curious about industry activity?



UPDATEline

1-866-653-9959

Message from the SIA President (Continued)

My sincere appreciation goes to the SIA board, committee members, and our community partners who bring their collective talents to the Association. Initiatives like Strathcona District Mutual Assistance Program (SDMAP), the Ambient Air Monitoring Network and the Community Awareness Emergency Response (CAER) program, all demonstrate how the SIA strives to meet its mission of working with the community and government to promote a safe and healthy working and living environment for all of us.

Have a healthy, happy and prosperous New Year.

Chris Jager, Scaw Metals, Alta Steel
President, Strathcona Industrial Association

Do You Hear **What I Hear?**

SIA members have comprehensive programs at their operations to ensure employee safety. An integral component of these programs includes on-site alarms, used to alert workers to a process change or an activity on the work site which may impact their work. All industrial facilities test their alarm systems, usually on a weekly basis. Alarm systems are effective and have been in place for several years.

Although not intended, these alarms can occasionally be heard in the community. A few residents have called to say they have heard alarms, and wonder if there is some action for them to take. The answer is no, but we're glad you asked.

How does sound travel?

Sound is produced by vibrating objects. When an object vibrates, it causes slight changes in air pressure. These air pressure changes travel as waves through the air and produce sound.

If the alarm systems have been in place a long time, why can I hear it now?

While nothing has changed at the site, changes in the community do occur – a tree is removed, a house is built – which can cause sound to bounce (or not

bounce) and be heard in places it wasn't before. Sometimes the seasons also contribute to audibility of alarms. In spring and summer, leaves provide a type of dampening effect. In autumn, the leaves come down, and sound is better able to travel. Wind direction can also be a factor in how sound travels.

If not by alarms, how is the community notified?

SIA members work together with both Strathcona County Emergency Services, and City of Edmonton Fire/Rescue. Should the community need to take action, our members contact the municipal fire department who then get messages or instructions out to the community.

Where else can the community get information? 1-866-653-9959

Since 2006, SIA members have been posting messages to the UPDATEline. The UPDATEline is a 24 hour telephone information line with recorded messages about non-routine activities on member sites for the community to access.

If you would like to discuss this, or any other matter related to industrial operations in the community, please call the CAER line at 429-CAER (2237).

Strathcona **CAER Fair**

Around 1000 residents in Strathcona County joined the SIA and Strathcona County Emergency Services for the Community Awareness Emergency Response (CAER) Fair on September 29th. "CAER Fairs provide an opportunity for the community to learn about industry, our safety practices, and how we work together for emergency response planning and air quality monitoring," says Brenda Gheran, CAER Program Manager.



FOCUS ON



Petro-Canada Edmonton Refinery

Petro-Canada is an international oil and gas company with large Canadian holdings and a strong reputation for environmental stewardship and corporate responsibility. It's one of the country's leading refiners and marketers of petroleum products and operates refineries in Quebec and Alberta, as well as a lubricants plant in Ontario.

Petro-Canada's Edmonton refinery sits on 247 hectares in Strathcona County, east of Edmonton, Alberta. The plant is located at the hub of several pipeline systems, which link Edmonton to Eastern Canada, the prairie provinces, British Columbia and the United States. The refinery employs approximately 450 permanent staff in production, maintenance, engineering, accounting and administration. In addition, it offers local employment to as many as 200 contract workers.

A refinery has been at the site since 1951, when the British American Oil Company constructed a 1,900 cubic meter per day plant.

In 1971, Gulf Canada commissioned its new fully integrated 13,000 cubic meter per day flagship refinery in Strathcona County.

With another expansion in 1983, the refinery became the first in Canada to refine upgraded synthetic crude from Alberta's oil sands. Upon the elimination of lead from all automotive gasoline, the Edmonton refinery expanded once again in 1988, adding a 1,590 cubic meter per day isomerisation unit to upgrade low-octane gasoline components. These, and further minor expansions, have raised the refinery's nameplate capacity to its current 20,000 cubic meters per day of conventional and synthetic crude.

To achieve low sulphur in gas and low sulphur in diesel, the Edmonton Refinery had two additional units added to the plant between 2001-2006. These new units did not increase capacity, but enabled the refinery to produce gasoline with no more than 30 parts per million (ppm) of sulphur and diesel fuel with no more than 15 ppm sulphur to meet new federal standards.

In December 2003, Petro-Canada announced its plans to convert the Edmonton Refinery to process feedstocks sourced solely from the oil sands of northeastern Alberta. Construction on this project began in 2006 and will be completed in fourth quarter 2008. The conversion project will take advantage of Western Canada's plentiful supply of bitumen as conventional light crude oil production declines.

Environmental Responsibility

At the Edmonton refinery, all employees are partners in environmental protection, and understand that environmental responsibility is expected by the community. Being ISO14001 certified, Petro-Canada is committed to continuous improvement, pollution prevention and regulatory compliance in environmental performance and reporting.

In 2005, Petro-Canada, the City of Edmonton and Strathcona County partnered in a project to reuse city wastewater for refinery process use. Recycled water from this process eliminates the need for direct river withdrawal and supplies water for Petro-Canada's Refinery Conversion Project, and neighbouring Air Products plant, which provides hydrogen and steam to Petro-Canada's Edmonton

Refinery. As an added benefit, the city uses this water to recharge lagoons in Rundle Park and the cross-country ski club uses the recycled water for snow making. The project has won a number of awards including the Emerald Award and the Canadian Council for Ministers of the Environment award for its innovative design.

QUICK FACTS

Plant Opened: 1951

Location: Hwy 16 A East and Petroleum Way/17th Street

Employees: 450

Production: 20 000 cubic meters per day conventional and synthetic crude

Products: Gasoline (premium and regular unleaded automobile gasoline), Diesel fuels (all grades to meet various specs for diesel engines including Arctic, winter and summer fuels), Aviation and Jet fuels, Heating fuels (Kerosene and stove oil), Liquid petroleum gases (butane and propane) and by-products (Coke, which serves as an electrode material in the manufacture of aluminum and Sulphur, a component of fertilizer).

24-hour information UPDATEline:
1-866-653-9959

General Inquiry Line: 780-410-5610





SAFETY COLOURING FUN with Aware Bear

COMMUNITY AWARENESS EMERGENCY RESPONSE



Obey all signs near outdoor ice



Strathcona Industrial Association

Community Awareness Emergency Response (CAER)
connected to our community since 1974

“ALWAYS PLAY SAFE AND KNOW WHAT TO DO!”

For More Safety Tips Check 'Safety Corner' on Our Web Site www.sia.ab.ca

Careers INdustry

Searching for a career? Ever wondered what's available in your own neighbourhood? In this series, explore careers that are commonly found at industrial sites, and what it takes to get them.

SAFETY ADVISOR

Safety advisors promote positive safety attitudes, along with safe work practices and environments in their organizations. They play a very important role on any work site and organization. Duties and responsibilities vary depending on their location, but in general, safety advisors educate, train, and reinforce safety principles and practices with many groups, from trades people to senior management levels.

Safety advisors require a working knowledge of legislation, regulations and best practices in their chosen industry and are responsible for a wide range of activities at their respective work sites. These could include evaluating work procedures and providing hazard assessments; safety training; participating in and initiating safety meetings; conducting incident investigations and performing inspections; creating campaigns to promote safe work practices and reduce injuries. In some organizations, safety advisors have additional responsibilities related to workers compensation, environmental protection, risk management and plant security.

Education:

There is no standard education or training requirements, according to the alis.gov.ab.ca website; however, employers look for candidates with computer skills and a combination of relevant on the job experience and education. Education could include an Occupational Health and Safety (OH&S) Certificate available from NAIT or the UofA, as well as a Construction Safety Officer (CSO) designation obtained from the Alberta Construction Safety Association. A Certified Registered Safety Professional (CRSP) designation is the professional safety designation and is available through the Board of Canadian Registered Safety Professionals (BCRSP).

Salary:

Salaries for safety advisors vary depending on the individual's qualifications and responsibilities, but according to the 2005 Alberta Wage and Salary survey, Albertans in the safety professional grouping working part time or full time earned between \$18,300 and \$172,300 per year. The average salary was \$62,500 a year.

Alberta Envirofuels Hosts Simulated Emergency

As part of its emergency response strategy, Alberta Envirofuels (AEF) partners with industry and Strathcona County Emergency Services in the Strathcona District Mutual Assistance Program (SDMAP). Through this program, members have a plan to assist each other in the event of a natural disaster or a large-scale emergency. Simulations allow testing of the plan in advance, as well as provide an opportunity to improve skills in responding to such events.

On October 12th, employees from the AEF plant on 17th Street hosted a mock emergency, which simulated a spill from a tanker. In order to test the SDMAP mutual aid plan, the scenario involved joint response from Strathcona Emergency Services and SDMAP member organizations along with AEF personnel. The response consisted of controlling and extinguishing the tanker fire and grass fires; containment and control of the product spill; a search and rescue; and activation of the Emergency Operations Centre.

The simulated emergency and the co-ordinated response provided a valuable opportunity for testing and improving response to potential emergency situations.



Imperial Oil Foundation donates \$1 million to NAIT



The Imperial Oil Foundation recently donated \$1,000,000 to the Northern Alberta Institute of Technology (NAIT). The funds, payable over five years, will go towards expanding the NAIT Spartan Centre for Instrumentation Technology and aboriginal education initiatives.

NAIT is the largest apprenticeship trainer in Canada, responsible for training over 50 percent of Alberta's tradespeople, and almost 20 percent of all tradespeople in Canada. The donation will increase training capacity by 50 percent at the Spartan Centre which provides students with hands-on training, using equipment they would find in refineries.

Imperial has a strong connection to NAIT. Over 20 percent of Strathcona refinery workers are NAIT grads, and numerous others work in operations at Bonnie Glen, Cold Lake and other upstream sites. Countless others have gone to NAIT for specialized training, and a number of employees serve as technical advisors to NAIT.



We would like to HEAR FROM YOU!

COMMENTS:

Send to:
Strathcona Industrial Association, P.O. Box 3374,
Sherwood Park MPO Sherwood Park, AB T8H 2T3
or visit www.sia.ab.ca

SDMAP Strathcona District Mutual Assistance Program

SIA members are proud to be part of SDMAP, a partnership of more than 30 industrial and community agencies dedicated to emergency response planning in east Edmonton and Strathcona County. Since 1979, SDMAP members have been sharing best practices for industrial incident planning and response.

Check out the new SDMAP website: www.sdmap.ca

SHELTER-IN-PLACE

In Case of a Chemical Emergency

1. Go inside. Turn on local radio/TV.
2. Close all windows and doors.
3. Turn off exhaust fans.
4. Listen to radio or TV for further instructions. Keep phone lines free.
5. If odour is strong, seal an inside room with wet towels at base of door. Breathe through a damp towel to filter air.



911 should be called only for emergencies.



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