



Strathcona
Industrial
Association

CAER

FALL
2004

community awareness emergency response

NEWS



www.sia.ab.ca

It's **CAER** Fair season!

Join the Strathcona Industrial Association and our community partners at one of our two upcoming Fall CAER Fairs. The Fairs start off with a pancake breakfast, courtesy of the SIA, and include member displays, tours of emergency response vehicles and air monitoring equipment, games, clowns and entertainment for the whole family.

Saturday, September 11th, 8 a.m. – noon
East Side Soccer Centre, 12720 Victoria Trail

Saturday, October 2nd, 8 a.m. – noon
Strathcona County Fire Station No. 1,
1933 Sherwood Drive, Sherwood Park

For more info, call 429-CAER (2237)

- Focus On: Alcan turns 30
- Aware Bear: Great Escape
- Edmonton Wastewater to Help in Sulphur Removal



Message from **SIA 2004 President**

Welcome to the Fall 2004 edition of CAER News. Inside, you will find a feature article on the Alcan, Strathcona Works plant. This year, the company celebrates 30 years of operation in the Edmonton area, and the SIA congratulates them on their milestone anniversary.

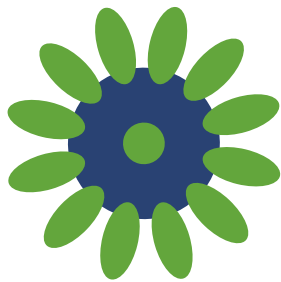
This time of year often signals maintenance activities for many of our members, as they prepare for the winter months. Although many of these activities are routine, we treat each job as if it is the first time. This keeps

safety of people, property and the environment at the forefront.

Fall also means back to school. Please take care in driving, especially in and around schools and playgrounds and choose safety first.

Sincerely,


Tom Day, SIA President
*General Manager, Petro-Canada
Edmonton Refinery*



ENBRIDGE

Enbridge takes a very hands-on approach to environment, health and safety. On site, they have a recycling program which includes materials such as cans, juice boxes, bottles, paper, plastics, cardboard and metal. They also adopted three kilometres of highway along the north side of Baseline Road to the corner of 17th Street in the "Adopt-a-Highway" program. About 30 employees participate in the "Walking the Pipeline" fitness challenge which includes any activity involving moving forward such as golf, walking or biking. To improve safety, Enbridge has implemented a "driver observations" program that evaluates driver habits and attitude, resulting in constructive feedback to the driver. Edmonton area employees are also getting ready for their annual United Way campaign.



FOCUS ON



Alcan turns **30!**

Alcan is celebrating 30 years of operations in 2004. The Strathcona Works plant is located just off 17th Street and Petroleum Way. Alcan and Alcoa, world leaders in the production of primary aluminum, aluminum products and packaging and aluminum recycling, own the facility jointly. Alcan manages the operation.

"As an early birthday present in 2003, both of the plant scrubbers were replaced at a cost of \$16 million," says Doug Burton, plant manager. "This reinvestment means that the plant can continue to operate successfully for another 30 years, and has reduced particulate emissions to less than 50% of current permit levels. It's very good news as the reinvestment was crucial to our continued success."

At the Strathcona Works site, green petroleum coke, a waste

product from the refining of crude oil, is heated to over 1300°C, then cooled. The result of this process is calcined petroleum coke, vital in the production of aluminum.

The green petroleum coke is dried and heated to over 1300°C in a rotary kiln 11 feet in diameter and 175 feet long. Residual volatile material in the green coke is burned as the fuel source and the temperature is controlled by adjusting the air combustion. The material is then quenched in a cooler – which is a second rotating drum that is 80 feet long and eight feet in diameter. This cooler consumes 50 gallons of water per minute.

Each year, the plant receives more than 250,000 metric tons of green coke from suppliers such as Petro-Canada (Strathcona County), Husky (Lloydminster), Co-op (Regina) and Shell (Washington State). In turn,

Alcan produces 180,000 metric tons of calcined product and ships by rail to Alcan plants in BC and Quebec, as well as Alcoa plants in Washington State, Quebec and New York State.

Plant start-up: September, 1974

Product: Calcined petroleum coke for use in aluminum products

Employees: 18

Customers: Alcan in British Columbia, Quebec, and Alcoa in Washington and New York States

www.alcan.com

Alcan employees also have reason to be proud. In August, they reached 14 years without a lost time injury. The plant is ISO 14001 certified for environmental management and OHSAS 18001 certified for safety.





Aware Bear safety corner

Making Your Great Escape

This fall, make a home fire escape plan with your family! Sit down with everyone who lives in your home and draw a floor plan of your house. While every home is different, there are **FOUR** important things that all escape plans need to show:

- 1. Two ways out of every room.** Your first way out would be the door and your second way out may be a window. Live on the second floor? Find a window that leads to a porch, roof, or balcony, or use a sturdy escape ladder.
- 2. At least one smoke alarm on each floor of your home.** Make sure you can hear the smoke alarm if your bedroom door is closed.
- 3. A family meeting place outside the home where everyone will go after escaping.** How about a tree, a telephone pole, or a neighbour's home? Once everyone's out, call the fire department from an outside phone. Never go back inside a burning building.
- 4. The number to your local fire department** (may be 911 or another number).



Practice makes perfect!

Practice your home fire escape plan at least twice a year. Have a grown-up push the "test" button on one of your smoke alarms to start the fire drill. And here's where the fun comes in!

Fun Idea #1 When you practice your home fire escape plan, pretend smoke is blocking your bedroom door. How will you get out?

Fun Idea #2 Practice crawling low under smoke. Ask two grown-ups to hold a sheet or blanket two feet (60 centimetres) above the floor and pretend that it's a layer of smoke. Crawl on your hands and knees under the smoke to escape.

Fun Idea #3 How long does it take your family to escape your home? Use a stopwatch to see how long it takes for everyone to get to your family meeting place. Does it take longer to escape if you must crawl low under the "smoke"?

Fun Idea #4 Use colored paper, crayons, and markers to make a sign that says "Family Meeting Place." Tape or tack the sign to your meeting place so that everyone remembers where it is.

Be safe and know what to do!



Edmonton Wastewater to Help in Sulphur Removal



Gold Bar Wastewater
Treatment Plant



The new hydrogen plant being built at the Petro-Canada refinery by Air Products Canada Inc. may soon be using treated wastewater to produce the hydrogen that removes sulphur from diesel to meet new federal regulatory requirements.

Petro-Canada has proposed construction of a 5.5-kilometre water line to transport treated wastewater from the City of Edmonton's Gold Bar Wastewater Treatment Plant to the Edmonton refinery property.

Construction of the water line would start in early 2005, supplying 5,000 cubic metres of treated water per day to the hydrogen plant by 2006. An additional 10,000 cubic metres per day of treated wastewater will be needed for hydrogen production and for the refinery in order to process sour synthetic crude oil as per a previously announced agreement between Petro-Canada and Suncor.

As part of the overall project, the City of Edmonton will construct state-of-the-art membrane filtration facilities to meet the necessary water quality specifications. "The City has been investigating ways to effectively recycle treated wastewater from its plant and the Petro-Canada proposal fits their objectives extremely well," says Ed Wittstock of Petro-Canada. "Using treated wastewater means the

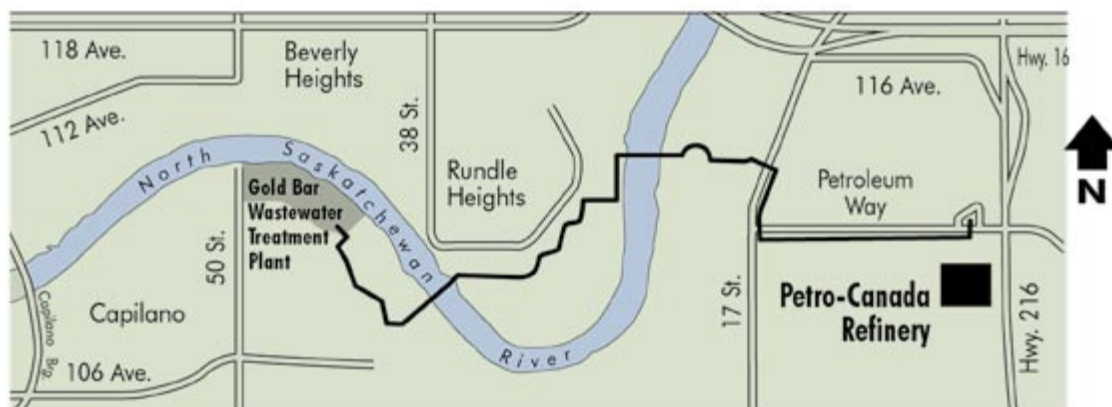
plant won't need to draw additional water from the North Saskatchewan River. As well, the proposed path of the water line goes through a number of parks and recreation areas providing a potential new source of water for irrigation and lagoons. A cross-country ski club is even looking at using some of the water to make snow."

The water line would be built on both City of Edmonton and Strathcona County lands crossing the North Saskatchewan River twice, as well as traversing three park areas. "By attaching the line to existing pedestrian bridges, there is no need to enter the river or disturb the river environment. We're also working closely with the City to minimize any disruption to park users," Wittstock says. "

Petro-Canada has prepared an Environmental Impact Assessment for the project and will seek approval from the City of Edmonton Council, Strathcona County and other regulatory bodies.

Two open houses were held in June to consult with the public, recreation groups and other interested parties. The majority of attendees were supportive of the initiative. The company expects to know whether the proposal will proceed this fall.

Recycled Waterline Route



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.



We would like to **HEAR FROM YOU!**



COMMENTS:

When completed, please mail to: Strathcona Industrial Association 10160-112 Street, Edmonton, AB T5K 2L6 or email your comments to: info@sia.ab.ca

In Case of a Chemical Emergency: Shelter-In-Place

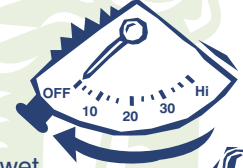
1. Go inside. Turn on local radio/TV.



2. Close all windows and doors.



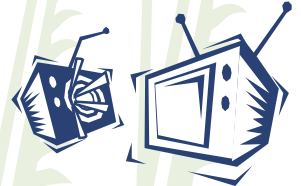
3. Turn off furnace/air conditioner/exhaust fans.



4. Seal a room using wet towels at base of door. Breathe through a damp towel to filter air.



5. Continue to listen to radio or TV for further instructions. Keep phone lines free.



Unless told to do so by authorities:

- DO NOT** evacuate or travel.
- DO NOT** bring home children from school, or other family members from work.
- DO NOT** call 911 or any other authority for information.

Safety is our priority, make it yours!



CAER News is a quarterly publication of the Strathcona Industrial Association. If you have any comments on information in this issue, or questions regarding your industrial neighbours, please call 429-CAER (2237) or e-mail us at: info@sia.ab.ca or view our web site at www.sia.ab.ca.

