

# CAER

WINTER  
2005

community awareness emergency response

# NEWS

See us at the  
**Sherwood Park  
Safety Fair**  
Saturday,  
January 21<sup>st</sup>, 2006  
Sherwood Park Mall

## Season's Greetings

### Message from the SIA President

Welcome to the final edition of CAER News for 2005. As the year draws to a close, the SIA Board members and I would like to extend to you our very best wishes for a happy and safe holiday season.

My term as the Association's president is coming to an end and I would like to take this opportunity to tell you that it has been a privilege to lead the SIA board for the past two years. Our accomplishments have been many, and I am reminded of how effective we can be when we work together. 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 meets its mission of working with the community and government to promote a safe and healthy working and living environment.

As we move into 2006, we will say goodbye to two long time members – Celanese Canada and EPCOR. I would like to recognize these members for the major contributions they have made to the Association over the years.

My sincere appreciation goes to current and previous SIA board and committee members who have brought their collective talents to the Association. It is because of their efforts that we continue to build and strengthen the relationships we have with the community and government. We look forward to the future and building on our success for the benefit of our employees and the surrounding community.

I extend my sincerest best wishes to you, your families and friends for a healthy, happy and prosperous New Year.



Tom Day, SIA President

General Manager, Petro-Canada Edmonton Refinery

[www.sia.ab.ca](http://www.sia.ab.ca)



# Safety Achievement

On October 6<sup>th</sup>, the facilities planning and engineering construction group at Imperial Oil's Strathcona refinery reached an amazing milestone of 19 years without a lost time incident (an injury that requires medical attention and results in the worker being absent from work). In addition, it has been just over four years since the last recordable incident (any injury requiring medical attention). This milestone represents more than three million work hours in construction activity and well over one million work hours of engineering.

"This outstanding achievement is achieved through the day to day focus on safety fundamentals and the belief that no one needs to get hurt to get a job done" says Dave Barrett, refinery manager. "It is only by everyone believing and working this way that such accomplishments are realized."

As part of the celebration, employees and contractors proudly presented a cheque to STARS. In the past 6 years this group has donated \$13,000 to STARS as part of safety milestone celebrations.

# Petro-Canada Refinery Project Reaches Safety Milestones

Petro-Canada's Edmonton refinery Diesel Desulphurization project marked a significant milestone this fall – three million hours without a lost time incident. The same project also achieved one million hours without a recordable incident.

At Petro-Canada, a recordable incident is an occurrence which requires the consultation of a doctor, in addition to on-site first-aid treatment. A lost time incident is an injury resulting in work days missed.

Hal Middlemiss, advisor with the oil sands construction management team, calls the milestone an outstanding achievement in safety. He attributes the success to Petro-Canada's corporate commitment to Zero Harm, teamwork, and the modeling of a site-specific safety plan that integrates refinery safety standards with corporate Total Loss Management standards as well as Occupational Health and Safety standards and contractor safety standards.

The Edmonton Diesel Desulphurization project will enable Petro-Canada to meet federal requirements to reduce tailpipe emissions in 2006. Roger Ellenberger, Project Manager, says as the project moves ahead, the focus on safety needs to be maintained. "At the end of the day, it's not about statistics. You have to look at safety on the individual level. We simply don't want anyone on our site getting hurt."

# Sherwood Park CAER Fair October 1<sup>st</sup>

Cold and rainy weather didn't stop some 1200 Sherwood Park residents from enjoying pancakes and learning about industry safety and County emergency services at the CAER Fair on October 1<sup>st</sup>. Displays from heavy industry and community safety agencies, a petting zoo and the breakfast were among the activities at the annual SIA sponsored event.



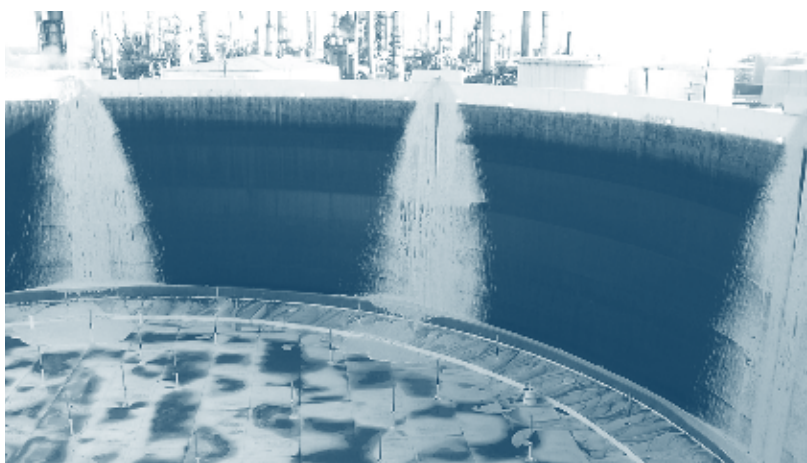


## Preparation depends on Practice

### SDMAP Exercise

On September 27<sup>th</sup>, Enbridge hosted the Strathcona District Mutual Assistance Program (SDMAP) emergency exercise. The scenario involved a lightning strike which caused a tank seal to catch fire. "This scenario, although unlikely, is what may be possible and then we escalate the situation to test our overall response capability, ensuring public safety is maintained" says Ralph Friesen of Enbridge. "The primary objective is to test the joint response plan working with our SDMAP partners. This exercise met that objective, and went very well for all of our responders."

Participating in the simulation were Enbridge, Strathcona County Emergency Services, Petro-Canada, Terasen Pipelines and Firemaster Oilfield Services. SDMAP is a partnership of more than 30 industrial and community agencies dedicated to emergency response planning in east Edmonton and Strathcona County. All SIA companies are members of SDMAP.



## Petro-Canada's Recycled Water Line Receives Fred Heal Award

On November 3<sup>rd</sup>, 2005 Petro-Canada's newly constructed recycled water line was recognized for the collaborative initiative of utilizing city wastewater for industrial purposes to decrease the direct withdrawal of water from the North Saskatchewan River. The award was presented by the Partners for the Saskatchewan River Basin (PFSRB).

The Fred Heal Conservation Award is given annually to recognize a community, organization or business that has taken direct initiative in preserving and/or enhancing the health of the Saskatchewan River Basin.

Since 1993, the PFSRB has promoted stewardship and sustainability of the Saskatchewan River Basin, an international watershed stretching over the three Prairie Provinces and a portion of Montana. More than three million people live within the basin which includes the North Saskatchewan, Red Deer, Bow, Highwood, St. Mary, Old Man, South Saskatchewan, Battle, Saskatchewan, and Carrot Rivers.

The award itself is in memory of Mr. Fred Heal, a man of vision, whose energy and commitment led to the establishment of the PFSRB. Fred was heavily involved in environmental projects and issues throughout his career. He last served as the executive director of the Meewasin Valley Authority, a river conservation agency established by provincial statute and based in Saskatoon, Saskatchewan.



Accepting on behalf of Petro-Canada are Tom Day, Edmonton Refinery General Manager; Greta Raymond, Vice President of Environment Health and Safety; Frank Vagi, Sean Mac Gregor; Ed Wittstock; Giorgio Grappolini; and Lynelle Crone.

# FOCUS ON



**Gold Bar Wastewater  
Treatment Plant**

## Gold Bar Wastewater Treatment Plant **On Line With Nature**

For nearly 50 years the Gold Bar Wastewater Treatment Plant has been a fixture on the south bank of the North Saskatchewan River at 50<sup>th</sup> street. Obscured from view by the maturing vegetation in its river park setting, the plant has emerged in recent years as a model of modern wastewater treatment practices.

In its beginnings, back in 1956, the Gold Bar Plant was a mere shadow of the large, modern wastewater facility it is today. Designed for a population of 250,000, the plant today serves in excess of 720,000 from Edmonton and surrounding communities. Undergoing some of the most rigorous treatment, the quality of its treated effluent, or water being discharged to the river, consistently places it among Canada's top three plants.

In June 2005, the plant's new ten-year licence officially confirmed Gold Bar's status as a tertiary treatment facility. That means that in addition to removing over 96% of all solids from the wastewater stream, it also removes nutrients – phosphorus and ammonia. This is done *biologically*, without the aid of any chemical additives. And to keep the treated effluent safe, the more than 95,000 megalitres per year returned to the river is disinfected using high intensity UV light.

Gold Bar will open the first membrane treatment facility for producing high-grade utility water for industrial use in January, 2006. Funded by Petro-Canada, the facility will take a portion of the

plant's treated effluent and put it through a micro-filtration process. The finished product, a step below drinking water, will supply the large refinery for years to come, reducing their impact on the river at the same time. In addition to the refinery, water will be available for parks and other users in Strathcona County.

To ensure that the local citizenry benefit from advancements in wastewater treatment technology, the plant is home to the country's only applied wastewater research and training facility. Opened in 2004, the Waste Management Centre of Excellence ([www.ewmce.com](http://www.ewmce.com)) is rapidly becoming the hub for wastewater research, technology demonstration, and training. Already, the leading-edge research conducted at this facility is making news across the continent. The U of A's fish biomonitoring assay study is evaluating the public health risk of reusable water, just one of many research initiatives at the Centre.

To learn more about the Gold Bar Plant and these various initiatives, call 496-8972. Plant tours are available by calling 496-4322.

### QUICK FACTS

**Plant opened:** 1956

**Process capacity expansions:**  
1969 & 1980

**Employees:** 111  
(permanent & casual)

**Average daily treated volume:** 275 million litres, enough to fill Kinsmen swimming pool 100 times/day

Tertiary treatment upgrade completed – 2003

ISO 14001 Certified – 2004

19,000 dry tonnes of biosolids (sludge) produced and then re-used through land application/ co-composting

Over 1.75 kilometres of utility tunnels

Entire plant and tunnel network heated with biogas (a by-product from the treatment process); saves over \$1.2 million annually

Plant Laboratory analyzes 25,000 samples/year

985 school students visited plant in October 2005 alone





# Aware Bear safety corner



## Winter Fun!

### Cold Weather Safety Word Find Puzzle

T O B O G G A N I N G I M I J  
H H J E Z I J S E L C G O O Q  
Z E I N K F O M N E A S U X M  
V L L N X A Y E S O J N T M F  
Q M E M K I L K B I O O H K H  
M X F L E F A F Q U V S G Y R  
X X D E P T I J W D W S U D W  
N C F F E B D R Q O I E A N R  
Y G U S P F U O S P N L R N S  
D R A O B W O N S T T S D E F  
F V L V S T T K X O E D L D H  
Z O A P L Y I M I I R G R T N  
T J U I B Q X J X M G E L J H  
L S N Z C X X I U O S W R R T  
S N O W M A N E G T M J G X I

### Cold Weather Safety Word Find Clues

GOGGLES

ICE SKATES

MOUTH GUARD

SNOWBOARD

SNOWMAN

TOBOGGANING

HELMET

LESSONS

SKI

SNOWFLAKE

THINKFIRST

WINTER

### Tobogganing Safety Tips

- Toboggan on designated sliding hills. Stay away from roads, rivers, railways and parking lots.
- Wear a bike or ski helmet to reduce the risk of serious head injury.
- Prevent strangulation by wearing neck warmers instead of scarves and avoiding outer clothing with drawstrings.
- Only sled in the daylight or on well-lit hills.
- Go down the hill sitting up or kneeling on the sled. Never slide down headfirst or standing up.
- Be sure your path is clear of obstacles and people right down to the bottom of the hill.
- Stay in control of your sled. Avoid inner tubes and snow discs that are difficult to control.
- If you fall off or stop unexpectedly, quickly move out of the way of other sledders.
- Walk back up the side of the hill, away from other sledders.

Source: KidSafe Connection, Capital Health

# 2005 Sherwood Park Chamber Awards

Two SIA members were recognized at the recent Sherwood Park Chamber Business Awards in October:

**Alberta EnviroFuels** - Environmental Protection & Occupational Safety Award

**Petro-Canada** – Innovation: New Business, Product, Service or Work System Award

Congratulations!

## Report to Community Available

Imperial Oil Strathcona refinery publishes an annual safety, health and environment report to the community. If you would like to receive a copy, please call the refinery community relations office at **449-8571** and provide your mailing information or make your request by email to [imperial.strathcona@esso.ca](mailto:imperial.strathcona@esso.ca)



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

### COMMENTS:

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

### 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.**



CAER News is a quarterly publication of  
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