

## **Welcome & Greetings,**

*Message from, Mahesh Makkar, Vice-Chairman of the Petroleum Society*

Welcome to the 15<sup>th</sup> annual Lloydminster Heavy Oil Technical Symposium.

Keeping in view the following facts about Lloydminster, the theme of the symposium, “Educating the world about Heavy Oil” seems justified to me.

- In Canada, heavy oil deposits straddle the Alberta/Saskatchewan border in the region surrounding the city of Lloydminster.
- One of the highest users of Progressing Cavity Pumps.
- Role model in producing heavy oil by CHOPS (Cold Heavy Oil Production with Sand).
- Many technocrats from Lloydminster applying their technical experience in Heavy Oil industry in Venezuela, Russia and USA.

In this symposium, seven speakers have about 110 years (combined) experience in heavy oil industry. These speakers, who generously have taken time from their busy schedules to be with us, are as distinguished and respected group as has ever been assembled at a forum of this size.

This symposium will provide you a great opportunity to share ideas and network with the technical professionals of our industry.

Once again, on behalf of the Petroleum Society, Lloydminster and District Heavy Oil Section, I welcome you all and thank you for being part of this symposium.

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## 2008-2009 Board of Directors Contact List Lloydminster & District Heavy Oil Section



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Dale Luedtke, Husky Energy

## 2008-2009 Lloydminster Technical Lunch 'n Learn Schedule Best Western Wayside – Crown Ballroom

Registration: 11:45a.m. Lunch: 12:00p.m. Speaker: 12:15p.m.

**All technical meetings are open to the general public.**

Sept 10-11th, 2008	<b>15<sup>th</sup> Annual Technical Symposium in conjunction with the OTS Heavy Oil Show</b> Stockade Convention Centre, Lloydminster, SK
October 15, 2008	<b>Derek Krilow, National Oilwell Varco</b> Sucker Rod Pumps for Heavy Oil & CBM Applications
November 12, 2008	<b>Speaker &amp; Topic</b> tba
January 14, 2009	<b>Brigida Meza Diaz, Alberta Research Council</b> Sand on Demand – An Approach to Improving Productivity in Horizontal Wells under Heavy Oil Primary Production
February 11, 2009	<b>Keith Richardson, Husky Energy</b> Challenges of Cold Heavy Oil Production in Western Canada
March 11, 2009	<b>Speaker &amp; Topic</b> tba
April 15, 2009	<b>Speaker &amp; Topic</b> tba
May 20, 2009	<b>Speaker &amp; Topic</b> tba
June 17, 2009	<b>Speaker &amp; Topic</b> tba
Sept 16-17, 2009	<b>16<sup>th</sup> Annual Technical Symposium</b> tba

**Please reserve your seat by calling Irene at (306) 825-1274. Tickets may be purchased at the door or by calling one of the executive members.**

## **2008-2009 Corporate Sponsors**

Advantage Products Inc.  
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IPS  
Kirby Hayes Incorporated  
Kenilworth Combustion Field Service.  
Kudu Industries Inc.  
LRI Perforating Systems Inc  
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Source Energy Tool Services Inc.  
Sure Flow Consulting & Oilfield Services Inc.  
Trican Partnership  
Tryton Tool Services Ltd.  
Universal Industries  
Volant Products Inc.  
Wavefront Sand Pumps & Rentals Ltd.  
Weatherford

**15<sup>th</sup> Annual Heavy Oil Technical Symposium**  
**September 10 & 11, 2008**  
**Stockade Convention Centre**  
**(Exhibition Grounds)**  
**5521 49 Avenue**  
**Lloydminster, Saskatchewan**

**GENERAL INFORMATION**

**Facilities:**

The symposium will be held at the Lloydminster Stockade Convention Centre (Exhibition Grounds), located at 5521 49 Avenue, Lloydminster, Saskatchewan.

**Registration/Sign In:**

All symposium delegates should be pre-registered with their conference fees paid in full. Registration packages will be handed out during the first day of our symposium at 8:00am on Wednesday September 10, 2008.

**Speaker Presentations:**

The presentations will begin on Day One at 9:00 am and on Day Two at 8:00am. Presentation time will be approximately twenty minutes in length followed by a ten-minute question period. Open discussion is encouraged.

We are planning refreshment breaks throughout the day with coffee/juice/water and snacks being served.

**Lunch:**

Lunch will not be provided.

**2008 Heavy Oil Technical Symposium Survey:**

Your comments and suggestions are valued and are always welcome. Please reference the survey, which is on pages 30-31 of this package. This year we are providing a CIM Business Card Holder to everyone who completes and hands in a survey. Please provide your feedback to one of the executive members.

Petroleum Society - Lloydminster Section  
15th Annual  
2008 Heavy Oil Technical Symposium  
September 10th & 11th, 2008  
Stockade Convention Centre, 5521 49 Avenue – Lloydminster, SK

**“Educating the World about Heavy Oil”**

**September 10, 2008**

- 8:00 am - Registration

- 8:30 am Welcome  
Mahesh Makkar

**Morning Session Chair – Ryan Rowan**

- 9:00 am  
ERIK HULM, BP Alaska  
“CHOPS Progress in Alaska”
- 10:00 am  
DAVID BEXTE, Schlumberger  
“Improved Cementing Practice  
Prevents Gas Migration and Surface  
Casing Vent Flow”
- 11:00 am  
KARL MILLER, Husky Energy  
“Successful Cold Production of Peace  
River Area Heavy Oil”

**September 11, 2008**

**Morning Session Chair – Bob Mottram & Murray Tluchak**

- 8:00 am  
JOSE ALVAREZ-MARTINE, Alberta  
Research Council  
“CSI Lloydminster – The Investigation  
continues .....
- 9:00 am  
DARRYL CORBIN, Enviroline Group  
“New Technology for Proactive  
Corrosion Management”
- 10:00 am  
JASON ABBATE, EnCana  
“SAGD Fundamentals & Future  
Growth”
- 11:00 am  
LAURENT SEINCE, Kudu Industries  
Inc.  
“The Next Generation of PC Pumps”
- 12:00 pm Closing Remarks  
Mahesh Makkar

**“Educating the World about Heavy Oil”**

**Wednesday September 10, 2008**  
**Time: 9:00 am**

**“CHOPS – Progress in Alaska”**  
**Erik Hulm, BP Alaska**



**BIOGRAPHY:**

'Erik Hulm is a geologist and subsurface team leader in BP Alaska's Heavy Oil team based in Anchorage. He has ten years of international and domestic experience spanning exploration, appraisal, and development. His area of expertise is integrated resource characterisation. He received a master's degree in geology from the University of Alaska Fairbanks.'

**ABSTRACT:**

The highly variable oil quality of the Alaska North Slope heavy oil resource will require a number of recovery techniques to be developed. As a baseline, we have commenced with an evaluation of cold recovery techniques, including primary recovery with horizontal wells and cold heavy oil production with sand (CHOPS). Although solution gas drive without sand production is relatively well understood, CHOPS development has been primarily empirical and has received less theoretical attention. In preparation for the application of CHOPS to the North Slope, the Western Canadian CHOPS production data base was examined to understand the recovery mechanisms. Though deliberate sand production activates a multitude of recovery mechanisms, it appears that solution gas drive and water drive predominate, and are readily discernable.

Numerical simulations using dynamic wellbores to represent 'wormholes' capture many of the features of the empirical observations, and suggest that optimal performance requires a balancing of the mechanisms. Continuation of sand production after water drive commencement may not be optimal. The dynamic wellbore model can be applied to evaluate commercial questions relating to well spacing and infill drilling. Some of the operational details of the first CHOPS well in Alaska will be reported.

**“Educating the World about Heavy Oil”**



Wednesday September 10, 2008

Time: 10:00 am

**“Improved Cementing Practice Prevents Gas Migration and Surface Casing Vent Flow”  
DAVID BEXTE, Schlumberger**



**BIOGRAPHY:**

David Bexte graduated from the Southern Alberta Institute of Technology in 1990 with a Diploma in Petroleum Technology, Reservoir. For 17 years, David has held a variety of positions with Schlumberger Canada based in Calgary, Red Deer, Norman Wells NWT, and Fort St. John BC. Currently, he is the Canadian Sales Manager for Schlumberger Heavy Oil, located in Calgary. David's experience includes product development and research, field operations, operations management, and technical sales in Cementing, Reservoir Stimulation and Coiled Tubing. David's role is to actively implement solutions for the developing Heavy Oil industry offered by the diverse resources of Schlumberger.

Within his current role, David is helping clients maximize their heavy oil projects by actively implementing Schlumberger technology and solutions.

**ABSTRACT:**

Gas migration (GM) and Surface Casing Vent Flows (SCVF) have plagued industry for decades. Remediation costs, increased abandonment costs, environmental damage and impairment of production are just some of the potential impacts. A recent project was undertaken where the prevention of Gas Migration and Surface Casing Vent Flows was identified as a key performance criterion. The target was “0” flow on all wells. The drilling area has historically been prone to severe cases of this phenomenon. At the onset of project planning, a process was developed and followed to quickly and methodically employ best practices to prevent the occurrence of GM and SCVF. The historical rate of occurrence was evaluated and several strategies were immediately employed. Progress was measured and additional steps were taken to further reduce the instances. This paper will describe some basic mechanisms of gas migration. We will discuss the process employed to prevent the occurrence of GM and SCVF. We will discuss some of the technologies and techniques used to improve performance and finally present the results of the progression of success.

**“Educating the World about Heavy Oil”**

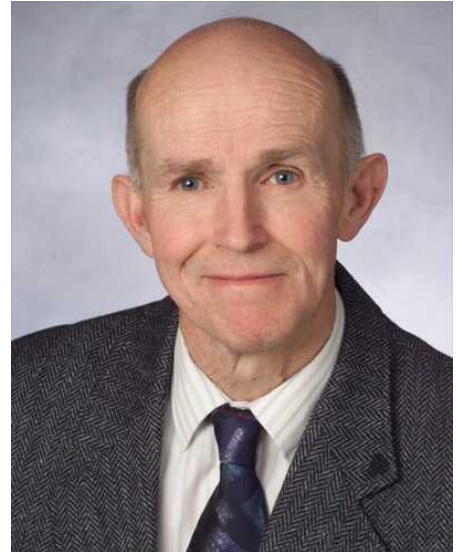


**Wednesday September 10, 2008**

**Time: 11:00 am**

**“Successful Cold Production of Peace River Area Heavy Oil”**

**Karl Miller, Husky Energy**



**BIOGRAPHY:**

Karl Miller earned B.E.S. and Ph. D. degrees in Chemical Engineering before starting his career in diverse areas such as diamond synthesis, explosives research, and manufacture of glass containers.

For the last 27 years he has worked on improving heavy oil and bitumen recovery, including assignments in Canada, the U.S., Argentina, Columbia, and Brasil. His areas of work have included cold production, post cold production using solvent processes and in situ combustion, and steam processes using combinations of vertical and horizontal wells. His papers and publications have emphasized either discussion of field results or new applications of existing technology.

**ABSTRACT:**

Exploitation of the Bluesky formation heavy oil in the Peace River area was first attempted in the 1960's, and greatly expanded in 1979 onward. For the first thirty years recovery efforts were thermally based, and mostly run by Shell, the largest holder of oil sands rights. Shell has field tested individual vertical well CSS, CSS well clusters using pressure cycling, SAGD, horizontal multilateral completions, single J-Wells, and most recently a proprietary downhole electrical heating process.

Beginning in 2003 BlackRock Ventures Inc. (BlackRock) began to successfully produce the Bluesky formation with cold production using horizontal wells. Initially little was known about Blackrock's non-thermal process, but over time more information became available and other operators, including Husky Energy, also began to successfully cold produce their Peace River area properties.

The successful cold production process in use is a remarkably simple method involving use of vertical profiles of the rock properties and the oil viscosity obtained from cores collected across the Bluesky formation to place the horizontal liner at a depth with the correct combination of depositional environment and oil viscosity for economic cold production. An important contributing factor to successful exploitation of the Peace River Bluesky formation is a combination of reservoir rock properties that results in minimal sand inflow into the horizontal liners.

**“Educating the World about Heavy Oil”**



**Thursday September 11, 2008**  
**Time: 8:00 am**

**“CSI – Cyclic Solvent Lab to Field”**  
**JOSE ALVAREZ-MARTINE, Alberta Research Council**

**Biography:**

Jose Alvarez holds M.Sc. and Ph.D. degrees, both in petroleum engineering, from the University of Texas at Austin. In July 2005 he joined the Heavy Oil & Oil Sands business unit at the Alberta Research Council (ARC) in Edmonton. At ARC, he has become a team leader for a group focused on developing and evaluating solvent-based heavy oil recovery processes. As well, he is the technical leader for an ARC effort to establish a research program aimed at accelerating the exploitation of Alberta's bitumen-bearing carbonates. Prior to joining ARC, he worked for about 20 years in Venezuela at PDVSA-INTEVEP on the development and adaptation of different EOR processes. Jose has more than 20 technical publications related to EOR methods.



**ABSTRACT:**

The cold production process has become the recovery technology of choice for most heavy oil fields in the Lloydminster area. Recovery factors for this process usually fall within a range of about 8 – 15% of the original oil in place (OOIP), leaving behind significant oil volumes in the reservoir for further exploitation. Further, while production levels from the cold production process have remained fairly stable over the past 15 years, these levels are forecast to decline substantially over the next decade. This has precipitated an increased awareness of the need for post cold production EOR technologies. Enter the CSI Lloydminster team. In order to recover additional heavy oil following cold production, some of the remaining oil needs to be re-mobilized and a drive needs to be re-established. Oil mobility could be increased by reducing oil viscosity and by redistributing the oil phase within the reservoir to increase its effective permeability. Solvent-based recovery processes could improve the oil mobility by reducing oil viscosity and/or swelling the oil phase, allowing oil redistribution to occur by means of gravity and capillary forces. CSI (Cyclic Solvent Injection) has shown potential as a post cold production EOR process in laboratory experiments. Recovery of up to 50% of the initial oil in place has been achieved in cyclic stimulation experiments under conditions representative of Lloydminster area reservoirs with the use of a suitable solvent blend. Solvent mixtures such as CO<sub>2</sub>/propane, methane/propane, CO<sub>2</sub>/ethane and methane/propane/butane have been evaluated. The experimental results indicate that CO<sub>2</sub>/propane mixtures yield superior performance. Following the encouraging results obtained from these experiments and associated numerical simulations, several CSI pilot tests have been carried out by heavy oil producers in the Lloydminster area. While the potential of the CSI process has been confirmed through these pilots, several field issues have emerged from the tests. Principal among them are the cost of solvent storage (and losses) in the reservoir, and optimal choices of solvent mixtures. It is clear that more research effort will be required to improve the CSI process. However, the corner stone has been laid for establishing the next generation of heavy oil recovery technologies in the Lloydminster area.

CSI Lloydminster – the investigation continues ...

**“Educating the World about Heavy Oil”**



**Thursday September 11, 2008**  
**Time: 9:00 am**

**“New Technology for Proactive Corrosion Management”**  
**DARRYL CORBIN, Enviroline Group**



**BIOGRAPHY:**

The presenter, Darryl Corbin, is Technical Manager for Enviroline Monitoring Systems and the inventor of the Enviroline Hydrogen Monitor. Darryl has more than 15 years experience in the Oil & Gas Industry, starting his career as a Laboratory Technician for Charter Coating Services, and later working for Canadian Environmental Coatings (now Cloverdale Paints) and Sigma Products in technical sales management positions. He holds a degree in Chemical Technology from Southern Alberta Institute of Technology.

**ABSTRACT:**

The corrosion industry has changed. Heavy oil production is increasing, creating more challenges for corrosion mitigation, including higher temperatures and pressure and more aggressive flow streams. Regulations worldwide, and headlines of devastating leaks, have made it more critical than ever for owners to proactively maintain their tanks and pipes, to avoid corrosion damage from ever occurring instead of reacting to damage or leaks after they have occurred. To do this, operators need accurate and more timely information.

Today, operators can retrieve corrosion data instantly and continuously via satellite, web & e-mail access. Corrosion monitoring technologies are becoming easier and less expensive to install and operate, and provide cost effective and accurate data for operators to rely on.

In this presentation, we will describe the corrosion process, how atomic hydrogen is formed and migrates along the grain boundaries and inclusions of the metal wall, and how the heavy oil environment affects this process. We will also describe how this migration can cause catastrophic failure of the tank or pipe through Hydrogen Embrittlement, Hydrogen Induced Cracking (HIC), Stress Corrosion Cracking (SCC) and Hydrogen Blistering.

Next, we will describe the monitoring technology that can detect this hydrogen formation, and track its changes. We will describe some additional benefits of this technology besides corrosion monitoring, such as process monitoring.

Lastly, we will provide a case study of an oil & gas company currently using this technology. We will describe their challenges that ultimately led them to choose this technology for their corrosion and process monitoring, and describe the impact this technology has had on their overall integrity management program.

**“Educating the World about Heavy Oil”**



**Thursday September 11, 2008**

**Time: 10:00 PM**

**“SAGD Fundamentals & Future Growth”**

**JASON ABBATE, EnCana**



**Biography:**

Graduated from the University of Calgary with a B. Sc. in

Chemical Engineering, 2006

3 Years of SAGD experience

Reservoir Simulation

Well Performance and Optimization

R&D initiatives

Well Completions

Currently a Production/Reservoir Engineer for EnCana’s Christina Lake Thermal Project – 2 years.  
With 1 year experience working for Suncor Energy Firebag.

**ABSTRACT:**

EnCana – SAGD Fundamentals and Future Growth

This presentation will provide a brief overview of SAGD technology utilized a Christina Lake and Foster Creek; including well completions, start-up and following phases of the SAGD process. The brief technical description of the SAGD process will be followed by information on future projected oil production from both projects.

**“Educating the World about Heavy Oil”**



**Thursday September 11, 2008**

**Time: 11:00 am**

**“The Next Generation of PC Pumps”**

**LAURENT SEINCE, Kudu Industries Inc.**

**BIOGRAPHY:**

Laurent SEINCE has been working with PCM for 12 years as research and development manager for the Oil and Gas division. MS specialized in mechanical engineering from the Ecole Nationale Supérieure de Mécanique et des Microtechniques – France, he spent 7 years in Alstom – fluid and mechanics division – as a mechanical engineer and project manager working for large pumping stations in nuclear power plants in France as well as industrial plants in Qatar and Jordan. He joined PCM and the Oil and Gas industry in 1996 to develop new products in artificial lift ranging from surface equipment to innovative downhole pumps such as the New Progressive Cavity Pump for multiphase flow and the PCM Vulcain TM for steam activation, always pushing the technical limits farther.

**ABSTRACT:**

Millions of research dollars are being spent on developing artificial lift equipment for the high temperatures found in CSS and SAGD. The paper discusses how PCPs, the worldwide standard in Heavy Oil artificial lift, are being advanced to next generation to be a viable choice for CSS and SAGD wells as well.

The paper will discuss results from various field pilots over the last 10 years – the perceived and realized benefits before and after the installation of the PCPs. Also included are the observations and key indicators for continuous improvement as well as current limitations in the system.

**“Educating the World about Heavy Oil”**



## 2008 Symposium Registration

	Last Name	First Name	Company	City	Prov
1	Abbate	Jason	EnCana	Calgary	AB
2	Alvarez	Jose	Alberta Research Council	Edmonton	AB
3	Axe	Tim	Husky Energy	Lloydminster	SK
4	Badura	Tom	Buffalo Resources	Calgary	AB
5	Bakker	Allan	Husky Energy	Lloydminster	SK
6	Beaumont	Greg	Penn West Petroleum	Lloydminster	AB
7	Bexte	David	Schlumberger	Calgary	AB
8	Bielesch	Trista	Husky Energy	Lloydminster	SK
9	Blair	Adam	Husky Energy	Lloydminster	SK
10	Brand	Steve	Husky Energy	Lloydminster	SK
11	Brandt	Rob	Husky Energy	Lloydminster	SK
12	Breen	Steven	Husky Energy	Lloydminster	SK
13	Brekko	Mitch	Buffalo Resources	Elk Point	AB
14	Brown	James	Husky Energy	Lloydminster	SK
15	Carlson	Brent	PFM Engineering	Lloydminster	AB
16	Chaisson	Terry	Nexen Inc.	Lloydminster	AB
17	Chang	Jeannine	Alberta Research Council	Edmonton	AB
18	Chappell	Barry	Sureflow Consulting & Oilfield	Bonnyville	AB

**“Educating the World about Heavy Oil”**

	Last Name	First Name	Company	City	Prov
19	Christie	Kevin	Husky Energy	Lloydminster	SK
20	Collinge	Brian	Nexen Inc.	Lloydminster	AB
21	Corbin	Darryl	Enviroline Monitoring Systems	Langdon	AB
22	Cornet	Justin	Sureflow Consulting & Oilfield	Bonnyville	AB
23	Craig	Ryan	Nexen Inc.	Lloydminster	AB
24	De Kock	Jodi	Nexen Inc.	Lloydminster	AB
25	Dodds	Adrian	EnCana	Calgary	AB
26	Ducherer	Davin	Weatherford PC Pump	Lloydminster	AB
27	Ducherer	Ashley	Husky Energy	Lloydminster	SK
28	Ens	Ron	Daylight Energy Trust	Calgary	AB
29	Fairburn	Reg	Nexen Inc.	Lloydminster	AB
30	Fisher	Blake	Hurricane Industries	Lloydminster	SK
31	Fraess	Mark	Kudu Industries	Macklin	SK
32	Franklin	Shawn	Nexen Inc.	Lloydminster	AB
33	Frauenfled	Ted	Alberta Research Council	Edmonton	AB
34	Freeson	Shane	Husky Energy	Lloydminster	SK
35	Fuller	Channce	Husky Energy	Lloydminster	SK
36	Geall	Brendon	Husky Energy	Lloydminster	SK
37	Gebhardt	Kara	Husky Energy	Lloydminster	SK

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	Last Name	First Name	Company	City	Prov
38	Gebhardt	Brent	PFM Engineering	Lloydminster	AB
39	Glover	David	Devon Canada	Lloydminster	AB
40	Godin	Marc	Sask Energy & Resources	Lloydminster	SK
41	Golbeck	Hart	Alberta Research Council	Edmonton	AB
42	Green	Roger	Koch Exploration	Calgary	AB
43	Grygar	Martin	Devon Canada	Bonnyville	AB
44	Gusnowski	Mackenzie	Pearl Exploration & Production	Calgary	AB
45	Hannah	Dan	Buffalo Resources	Calgary	AB
46	Hardes	Darrel	Devon Canada	Lloydminster	AB
47	Harland	Ted	Europump	Lloydminster	AB
48	Hayes	Kirby	KHI	Lloydminster	AB
49	He	Jun	Husky Energy	Lloydminster	SK
50	Heide	Curtis	Pearl Exploration & Production	Calgary	AB
51	Hickman	Chris	Caltex Energy	Lloydminster	AB
52	Hill	Patty	Husky Energy	Lloydminster	SK
53	Hiltz	Jamie	Husky Energy	Lloydminster	SK
54	Howard	Mike	Champion Technologies	Bonnyville	AB
55	Huhm	Erik	BP Alaska	Anchorage	Alaska
56	Hutchings	John	Husky Energy	Lloydminster	SK

**“Educating the World about Heavy Oil”**

	Last Name	First Name	Company	City	Prov
57	Ivory	John	Alberta Research Council	Edmonton	AB
58	Jahn	Sheldon	Al Khorayef Petroleum	Calgary	AB
59	Johnson	Les	Slumberger	Calgary	AB
60	Jossy	Chris	Alberta Research Council	Edmonton	AB
61	Jossy	Eddie	Alberta Research Council	Edmonton	AB
62	Jwad	Hassan	PFM Engineering	Lloydminster	AB
63	Kitchin	Andrew	Champion Technologies	Lloydminster	AB
64	Kivimaa	Shawn	Husky Energy	Lloydminster	SK
65	Klumpenhauer	John	Universal Industries	Lloydminster	AB
66	Knorr	Vern	Husky Energy	Lloydminster	SK
67	Korpany	Gerard	Alberta Research Council	Edmonton	AB
68	Kuntz	Darryl	Husky Energy	Lloydminster	SK
69	Kushniruk	Tyler	Husky Energy	Lloydminster	SK
70	Lackner	Gernot	CNRL	Calgary	AB
71	Landry	Gary	Husky Energy	Lloydminster	SK
72	Latos	Jeff	BJ Tool Services	Lloydminster	AB
73	Leach	Gary	Penn West Petroleum	Lloydminster	AB
74	London	Mike	Alberta Research Council	Toronto	ONT
75	Long	Glenn	Husky Energy	Cold Lake	AB

**“Educating the World about Heavy Oil”**

	Last Name	First Name	Company	City	Prov
76	Mahoney	Al	Penetrators Canada Inc.	Red Deer	AB
77	Mann	Lindsay	Husky Energy	Lloydminster	SK
78	Mannix	Craig	Pearl Exploration & Production	Calgary	AB
79	Manzo	David	Koch Exploration	Calgary	AB
80	Martin	Juan Pablo	Tenaris	Calgary	AB
81	Martinka	Glen	R&M Energy Systems	Lloydminster	AB
82	McKechnie	Kris	Koch Exploration	Calgary	AB
83	Miller	Karl	Husky Energy	Lloydminster	SK
84	Minish	Travis	Champion Technologies	Lloydminster	AB
85	Morrison	Fred	Baker Petrolite	Lloydminster	AB
86	Morton	Trevor	Husky Energy	Lloydminster	SK
87	Nelson	Lori	NorAlta Technologies Inc.	Lloydminster	AB
88	Newman	Dustin	Husky Energy	Lloydminster	SK
89	Oberg	Ken	Nexen Inc.	Lloydminster	AB
90	Offord	Gord	Gordine Supervisory Services	Blackfoot	AB
91	O'Hagan	Dermot	Husky Energy	Lloydminster	SK
92	O'How	Corey	Husky Energy	Lloydminster	SK
93	Osecki	Devon	Nexen Inc.	Lloydminster	AB
94	Payne	Ryan	Husky Energy	Lloydminster	SK

**“Educating the World about Heavy Oil”**

	Last Name	First Name	Company	City	Prov
95	Purdy	James	Devon Canada	Lloydminster	AB
96	Rathod	Rakesh	Husky Energy	Lloydminster	SK
97	Redhead	Lisa	Husky Energy	Lloydminster	SK
98	Repski	James	Nexen Inc.	Lloydminster	AB
99	Richardson	Keith	Husky Energy	Lloydminster	SK
100	Schmidt	Scott	Husky Energy	Lloydminster	SK
101	Schmidt	Murray	Nexen Inc.	Lloydminster	AB
102	Smith	Rodney	Husky Energy	Lloydminster	SK
103	Staniforth	Howard	Husky Energy	Lloydminster	SK
104	Steels	Tim	Sclumberger	Calgary	AB
105	Stephens	Rick	Grit Industries	Lloydminster	AB
106	Swatschina	Carl	Nexen Inc.	Lloydminster	AB
107	Telfer	Alberta	Foreign Affairs Canada	Edmonton	AB
108	Thompson	Chris	Nexen Inc.	Lloydminster	AB
109	Thronson	Dave	Baker Petrolite	Lloydminster	AB
110	Tryhuba	Ted	Kudu Industries	Macklin	SK
111	Utke	Jordan	Sask Energy & Resources	Lloydminster	SK
112	Werstiuk	Nicholas	Devon Canada	Bonnyville	AB
113	West	Dwayne	Penetrators Canada Inc.	Red Deer	AB

**“Educating the World about Heavy Oil”**

	Last Name	First Name	Company	City	Prov
114	Whitside	Chris	Nexen Inc.	Lloydminster	AB
115	Wilton	Michael	Koch Exploration	Calgary	AB
116	Zarowny	Cam	NorAlta Technologies Inc.	Lloydminster	AB
117	Zinchuk	Brian	Pipeline News	North Battleford	SK

**“Educating the World about Heavy Oil”**



# PETROLEUM SOCIETY

CANADIAN INSTITUTE OF MINING, METALLURGY & PETROLEUM

LLOYDMINSTER & DISTRICT HEAVY OIL SECTION

## 2008 Heavy Oil Technical Symposium Survey

### 1. What did you like most about the symposium this year? Why?

- |                                   |  |                                    |
|-----------------------------------|--|------------------------------------|
| <input type="checkbox"/> Speakers | <input type="checkbox"/> Fees          | <input type="checkbox"/> Reception |
| <input type="checkbox"/> Topics   | <input type="checkbox"/> Short Courses | <input type="checkbox"/> Banquet   |
| <input type="checkbox"/> Location | <input type="checkbox"/> Notice/Emails |                                    |
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### 2. What, if anything, should be changed?

- |                                   |  |                                    |
|-----------------------------------|--|------------------------------------|
| <input type="checkbox"/> Speakers | <input type="checkbox"/> Fees          | <input type="checkbox"/> Reception |
| <input type="checkbox"/> Topics   | <input type="checkbox"/> Short Courses | <input type="checkbox"/> Banquet   |
| <input type="checkbox"/> Location | <input type="checkbox"/> Notice/Emails |                                    |
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### 3. What topics or panel discussions would you like to hear presented at the next symposium?

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4. Do you have any speakers you would like to refer? Please provide name and contact information if available.

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5. How did you find out about us?

- |                                 |                                    |                                   |
|---------------------------------|------------------------------------|-----------------------------------|
| <input type="checkbox"/> Friend | <input type="checkbox"/> Newspaper | <input type="checkbox"/> Radio    |
| <input type="checkbox"/> E-mail | <input type="checkbox"/> Internet  | <input type="checkbox"/> Mailouts |
| <input type="checkbox"/> Other: |                                    |                                   |

5. Have you visited our website [www.petsocheavyoil.org](http://www.petsocheavyoil.org)?

- |                              |                             |
|------------------------------|-----------------------------|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No |
|------------------------------|-----------------------------|

6. So that we can better serve your needs, what would you like to see added or changed on our website?

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7. Do you have any other additional comments?

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Please return this survey to any CIM Executive Committee member or place on the CIM Registration Table.

If you would like to present a topic next year, please contact Irene Regner at 306-825-1274 or via email at [irene.regner@huskyenergy.ca](mailto:irene.regner@huskyenergy.ca)