PETROLEUM TECHNOLOGY ALLIANCE CANADA

ANNUAL REPORT

2006

... facilitating a valuable future
Mission

Facilitating innovation, collaborative research and technology development, demonstration and deployment for a responsible Canadian hydrocarbon energy industry.

PTAC Technical Areas

- CO2 Enhanced Hydrocarbon Recovery
- Coalbed Methane / Unconventional Gas
- Drilling
- E-Business
- Emission Reduction / Eco-Efficiency
- Energy Efficiency
- Environment
  - Air
  - Ecological
  - Soil and Groundwater
  - Water
- Fundamental Research
- Geomatics
- Health and Safety
- Heavy Oil
- Hydrogen / Hydrocarbon Upgrading
- Inactive Wells
- Innovation
- Instrumentation / Measurement
- Natural Gas Production
- Oil Production
- Oil Sands
- Pipelines
- R&D Funding
- Reservoir / Geoscience
- Resource Access
- Telecommunications
- Well Completion
2006 Key Accomplishments

In 2006, PTAC facilitated thirteen new projects or project phases, sixteen technology information sessions, seven forums, and two workshops, bringing together members from industry, government, and academia. Over the past year, we have focused our activities on continuing to provide our members with the very best facilitation services for research and technology development, while taking steps to ensure sustained value into the future.

In May 2006, PTAC entered into a Memorandum of Understanding (MOU) on Research and Innovation with the Canadian Association of Petroleum Producers (CAPP) and the Small Explorers and Producers Association of Canada (SEPAC). This MOU is expected to result in improved identification of industry research and technology development needs, more effective communication with government on research and technology development needs and opportunities, a new mechanism for funding research and technology development projects, improved association communication on research and technology development and greater long-term financial stability for PTAC.

PTAC built a stronger relationship with EnergyNet by jointly contracting a Director of Increased Recovery focused on unconventional gas and conventional oil and gas research and technology development for both organizations. To streamline this portfolio, PTAC also re-organized the three increased recovery committees to address Viscous Oil, Unconventional Gas, and Conventional Oil and Gas respectively.

Within the Increased Recovery portfolio, PTAC facilitated the completion of the British Columbia and Saskatchewan portions of the EnergyNet Increased Recovery of Oil and Gas Business Case Project. This project, valued in its entirety at $978 thousand, was developed to provide a detailed business case for increasing recovery factors in reserves of oil and gas in the Western Canadian Sedimentary Basin. This endeavor has yielded valuable information for project participants, identifying pools in which they could deploy both existing and new technology to effectively increase oil and gas production and recoverable reserves. The results of this project are slated for public release in May 2008, and are expected to be of significant value to industry as a whole.

In other technical areas, PTAC also completed the Unconventional Gas Technology Roadmap and the Expanding Heavy Oil and Bitumen Resources While Mitigating Greenhouse Gas (GHG) Emissions and Increasing Sustainability Technologies Roadmap. PTAC also completed the British Columbia and Saskatchewan portions of the EnergyNet Increased Recovery of Oil and Gas Business Case Project.

Facilitated thirteen new projects or project phases, sixteen technology information sessions, seven forums, and two workshops.

Message from the Board of Directors

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In other technical areas, PTAC also completed the Unconventional Gas Technology Roadmap and the Expanding Heavy Oil and Bitumen Resources While Mitigating Greenhouse Gas (GHG) Emissions and Increasing Sustainability Technologies Roadmap in 2006. These publications provide guidance on future research and technology needs of the industry.

Following through on the success of Phase 1, PTAC proceeded with Phase 2 of the Technology for Emission Reduction and Eco-Efficiency (TEREE) initiative with funding from Western Diversification, the Alberta Government, Environment Canada and industry. Six new TEREE projects valued at $1.5 million were launched in 2006.

In total, PTAC facilitated the launch of thirteen projects or new project phases valued at $4.5 million during 2006, bringing the total number of projects launched since inception in 1996 to 213 with a value of $127.7 million.

During the past year, PTAC facilitated the communication of new research and technology development activities and the sharing of ideas through forums and workshops on Air Issues Research, CO2 Enhanced Hydrocarbon Recovery, Driving Safety Technology, Ecological Issues Research, Resource Access Technology, Shallow Gas Technology, Soil and Groundwater Research, and Water Efficiency and Innovation.

PTAC embraced changes in 2006 with the selection of a new president to replace Eric Lloyd, who will be retiring in April 2007 after eleven years at the helm of PTAC. The organization is pleased to welcome Soheil Asgarpour as the new President effective April 10, 2007. In addition, a move to new office space on the fourth floor of the Chevron Building has ensured PTAC’s office needs are met for the next five years, while remaining in the Calgary downtown core and in close proximity to most of our industry contacts.

2006 has been a year of growth and change for PTAC as we continued to seek out new opportunities and meet new challenges. On behalf of the Board, we would like to express our appreciation to PTAC staff and volunteers for their contributions to our success. We look forward to continued collaboration.
PTAC Petroleum Technology Alliance Canada, the Canadian Association of Petroleum Producers (CAPP), and the Small Explorers and Producers Association of Canada (SEPAC) each play a unique role in serving the petroleum industry, while their membership collectively includes industry partners representing the majority of Canada’s oil and gas activity. In October 2006, these three organizations made the bold move to leverage their resources and officially work together to elevate research and technology development in Canada’s petroleum sector with the signing of a Memorandum of Understanding (MOU) on Research and Innovation.

Since its inception in 1996, PTAC has collaborated with members from all sectors of the oil and gas industry to increase research and development aimed at achieving cost-effective, socially responsible, and environmentally sound development of Canada’s petroleum resources. This Memorandum of Understanding between PTAC, CAPP, and SEPAC is expected to result in:

- improved identification of industry research and technology development needs;
- more effective communication with government on research and technology development needs and opportunities;
- new mechanisms for funding research and technology development projects;
- improved association communication on research and technology development; and
- greater long-term financial stability for PTAC.

The PTAC Research and Innovation Committee, which is comprised of members from each of the stakeholder organizations, oversees the implementation of collaborative research and innovation strategies and activities flowing from the MOU. In working together with these industry partners to promote new technology research and advance innovative solutions, PTAC is striving to facilitate a valuable future for all Canadians.

Technology roadmaps have proven to be an excellent method to bring industry, government, and non-government stakeholders together to examine issues and map out solutions through collaboration. PTAC is proud of the publication of both the Expanding Heavy Oil and Bitumen Resources While Mitigating GHG Emissions and Increasing Sustainability Roadmap which was released in May 2006, and Filling the Gap – Unconventional Gas Technology Roadmap which was released in June 2006. These two publications provide insight into the current status of these resources, and offer a potential plan to move these resources ahead for a successful future.

Developed under the guidance of the multi-stakeholder PTAC Unconventional Heavy Oil Technology Roadmap Steering Committee, Expanding Heavy Oil and Bitumen Resources While Mitigating GHG Emissions and Increasing Sustainability was prepared with support from Natural Resources Canada (NRCan) and the Climate Change Technology Innovation Initiative (CCTII). This report developed an initial listing of over eighty research and development needs which will have to be addressed over the next ten to twenty years to allow development of currently “inaccessible” resources, while identifying technologies to lower greenhouse gas emissions associated with development of these resources. The resources targeted include the 26% of the “oil sands” that is contained in carbonate formations and the 24% that is too thin to recover with existing thermal methods. Needs identified in the roadmap include the development of methods to build barriers to ensure containment of the bitumen zones, exploration methods to assess oil sands characteristics without extensive drilling, access methods such as subsurface mining techniques, development of alternate recovery processes, and methods to mitigate environmental impacts.

The creation of Filling the Gap – Unconventional Gas Technology Roadmap was a collaborative effort supported by thirty-five stakeholders including government departments, producers, service and supply companies, and industry associations looking to the future of Unconventional Gas in Western Canada. This roadmap highlights areas where new technologies will be required to address the challenges of producing natural gas from shallow and tight formations, as well as natural gas from coal, gas shales, and gas hydrates – all of which it predicts will be required to continue to supply natural gas to meet growing downstream demands. Key technology development needs were identified for reservoir characterization and modeling, drilling and completions, lift and surface infrastructure, and addressing sustainable development priorities.

The recommendations and vision proposed in these roadmaps have spurred PTAC Technical Steering Committees to develop future initiatives under the direction of the Increased Recovery Director.
PTAC Launches TEREE Phase II

New Phases in Emission Reduction and Eco-Efficiency

With climate change grabbing headlines across the nation and throughout the world, the PTAC-facilitated Technology for Emission Reduction and Eco-Efficiency initiative (TEREE) continues to champion research and development of technologies to reduce emissions and improve eco-efficiency of the oil and gas industry. PTAC launched the TEREE Phase I initiative in 2003 with funding from Western Economic Diversification Canada (WD). 2006 marked a renewed commitment to continuing environmental responsibility with the announcement of WD support for implementing TEREE Phase II. The overarching goal of the TEREE initiative is to provide the energy industry with more efficient and environmentally friendly equipment and processes in order to reduce emissions on a wide scale. To that end, this phase of the initiative will direct the selection and verification of environmental technologies in which industry expresses interest, and will facilitate funding to adapt or develop these technologies to a commercial stage.

Through extensive consultation with industry stakeholders, PTAC has identified the five priority areas on which TEREE Phase II will focus: venting, including storage; reciprocating engines; heaters and boilers; flaring and incineration; and fugitive equipment leaks. The goal of TEREE Phase II is to provide industry with specification for more efficient equipment and processes that can be written into new design and retrofit situations to improve overall efficiencies and emission reductions on a wide scale.

PTAC’s TEREE initiative embarks on Phase II based upon a solid history of successful collaboration with producers, industry, non-governmental organizations, and government. We are pleased to continue working together towards a common goal – facilitating an environmentally responsible, sustainable future.

Outlook for 2007

An Exciting Plan for the Future

2007 is expected to be a year of accelerated opportunities for PTAC. As we continue to work with industry, academia, governments and collaborating associations as the preferred vehicle for facilitation of hydrocarbon energy research and development (R&D), our organization will experience a change in leadership when we welcome Soheil Asgarpour as our new President in April 2007. His background and expertise in oil sands and reservoir recovery is expected to enable PTAC to facilitate new collaborative research and technology initiatives in this high priority area.

PTAC expects to fully implement the Memorandum of Understanding (MOU) on Research and Innovation with the Canadian Association of Petroleum Producers (CAPP) and the Small Explorers and Producers Association of Canada (SEPAC) in 2007. In conjunction with these and other key collaborating organizations, PTAC plans to facilitate new oil sands technology roadmaps and projects. We believe there are many challenges and opportunities in this area that need to be addressed with new R&D in an integrated fashion with other organizations such as the Alberta Department of Energy, Alberta Chamber of Resources, Canadian Oil Sands Network for Research and Development (CONRAD), and the United States Department of Energy (US DOE).

Building upon the success of our 2006 roadmap projects, PTAC plans to hold workshops on both Unconventional Gas and Heavy Oil and Bitumen with the ultimate intent of formulating and launching new joint industry projects in these two important areas. Our highly successful annual Shallow Gas Production Technology Forum held in March 2007 preceded these workshops.

PTAC will enhance our Environmental portfolio by contracting a part-time Director of Water Use to focus on new oil and gas industry water technology projects. Two water use projects on a potential SAGD technology demonstration facility and beneficial reuse of produced water will be completed in 2007.

Several new technology projects under TEREE are expected to be completed in the coming year, including an Energy Efficiency Technology Database, an Electric Power Generation from Waste Heat Recovery project, and a project exploring Nodal Analysis.

In addition, PTAC will continue to facilitate the CAPP/SEPAC Environmental Research Advisory Council (ERAC) process in 2007, including facilitating twelve research projects. PTAC will also assist CAPP with Caribou Research facilitation on a cost recovery basis. PTAC expects to host a number of workshops and technical meetings in the environmental area to communicate this valuable research to interested members of industry, government, and the public. Four research forums will address water, air, soil, and ecological issues.

PTAC’s other technical areas are also expected to remain very active under the direction of their respective Technical Steering Committees, proposing and launching projects and hosting information sessions, workshops, and forums to bring the latest technology information to the industry.

Our members form the very foundation of our organization, and PTAC will continue to ensure we offer superior facilitation services and benefits to our members in 2007. We will strive to increase our membership to include more stakeholders from all points along the hydrocarbon energy continuum, such as emerging production, oil sands, pipeline, and service and supply companies, as well as royalty trusts.

As we survey the horizon of 2007, we stand upon a solid reputation as the preferred vehicle for facilitating hydrocarbon energy collaborative research and technology development. PTAC will continue this tradition of excellence as the future unfolds.
PTAC offers a variety of services to its members, and provides opportunities to benefit the Canadian hydrocarbon energy industry. For more information on the many benefits of PTAC membership please visit our website at www.ptac.org.

**Facilitating Projects**

PTAC facilitated thirteen research and development projects or new project phases during the course of 2006. PTAC provides industry with a neutral forum to work in collaboration, leveraging collective experience and expertise to identify opportunities, challenges, and potential solutions that require research or technology development. These discussions can lead to joint-industry projects where PTAC, as a neutral facilitator, assists with soliciting proposals and launching projects through a fair and balanced process. PTAC also identifies existing research and development to raise industry awareness and minimize duplication.

**networking**

**Technology Information Sessions**

In 2006, PTAC facilitated sixteen Technology Information Sessions (TIS) attended by over five hundred and thirty participants. As one of our services to members, PTAC facilitates TISs for interested members, providing benefits to both the presenting company and the members in attendance. The company presenting is provided a forum to solicit interest, feedback, participation or potential funding for new research and development projects; find industry partners to complete proposed research or technology development such as field tests or pilot sites; report on field test or pilot results; provide information on technology-related services; and market new technology to the Canadian oil and gas industry. Those in attendance have the opportunity to be exposed to these new projects and ideas through a targeted, facilitated presentation.

**engaging**

**Forums and Workshops**

Over six hundred and sixty participants attended the seven forums and two workshops hosted by PTAC throughout 2006. These events provide industry members with an opportunity to gather with others to share ideas, opinions, and learning on a specific technical subject.

PTAC forums focus on broader needs or technical areas. These events are comprised of presentations detailing new technologies, case studies, and the objectives and results of current research, as well as providing opportunities for questions and answers. The goal of PTAC forums is to bring together the most up to date information from across the industry into an enriching learning experience.

PTAC workshops provide opportunities for participants to work collaboratively in focused groups to clearly define research and development issues, identify potential solutions, and select the best approach to move forward. Industry members are provided an opportunity to share their needs, and R&D providers are given an opportunity to hear about issues firsthand. Solutions are formed by leveraging the collective expertise and ideas of all participants, while protecting proprietary interests. PTAC hosts the workshops and is pleased to provide the necessary facilitation, administrative support, and coordination to launch projects once identified.
ntration and deployment for a responsible Canadian hydrocarbon energy industry.

. . . informing

PTAC Knowledge Centre

The PTAC Knowledge Centre provides public access to non-proprietary technical information on commercially available oil-and-gas-related technologies pertinent to the hydrocarbon energy industry. The collection, which is updated on an ongoing basis, focuses on including sustainable, eco-efficient, energy-efficient, and GHG-reducing technologies.

The Knowledge Centre offers access to thirteen core energy and premier technical databases. The Knowledge Centre Manager provides literature searches and documents to technical steering committees, project performers, researchers, and others to help identify technologies and research needs, avoid duplicate research, and monitor industry trends.

Knowledge Centre Services for PTAC members include literature searches, search alerts, contact information for subject experts in industry, government, and academia, and information on local, national, and international events. PTAC members are invited to provide non-proprietary technical information, in electronic or hard copy, to PTAC for display in the Knowledge Centre. Relevant materials are accepted on an ongoing basis.

. . . delivering

Program Facilitation

On behalf of Natural Resources Canada’s Office of Energy Efficiency, PTAC continued to deliver the energy and emission audit incentive in 2006. This program provides incentives to industry to identify energy and emission reduction opportunities and provides access to information to encourage implementation of recommendations to reduce energy use.

PTAC also continued to facilitate the Environmental Research Advisory Council (ERAC) funding program on behalf of CAPP. ERAC projects are collaboratively funded and managed by PTAC technical steering committees. Fifteen ERAC projects were approved for 2006 with ERAC funding of $1.1 million. These projects provide science-based solutions to current and emerging environmental issues that are critical to the industry.

. . . collaborating

Technical Steering Committees

PTAC Technical Steering Committees (TSC) consist of PTAC members representing various industry sectors, governments, and non-governmental associations. These technical steering committees help to identify opportunities for collaborative research and technology development, raise awareness of existing research and technology through planning events, find solutions to challenges through the process of soliciting proposals and launching new projects, and promote involvement by informing appropriate colleagues of TSC activities.

. . . communicating

Member Communications

PTAC is committed to ensuring effective communication with our members. The PTAC website provides members with access to the most up-to-date information on PTAC projects, events, and activities as well as an extensive archive. Our bi-weekly newsletter, e-talk, delivers all the latest information on upcoming events and opportunities directly to members through email.
Innovative R&D Technology Development

Projects or New Project Phases
Launched in 2006

PTAC facilitated thirteen research and development projects or new project phases during the course of 2006.

Environment
- Quantification of Soot Emissions from Flares
- Numerical Simulation of a Sour Gas Flare
- Validation of Toxicology Test Methods for Assessing Petroleum Hydrocarbon and Brine Spills in Boreal Forest and Taiga Eco-Zone Soils
- Assessment and Refinement of Ecotoxicity Methods for Development of Tier 2 Soil Eco-contact Standards and Application to Site Specific Risk Assessments
- Putting Grizzly Bear Research Results into Today’s Land Management and Planning
- Identifying Key Native Species and Efficient Strategies for Revegetating Sensitive Landscapes

Heavy Oil
- Carbonate Triangle and Conventional Heavy Oil – Lowest GHG Production Scenario – An Exploratory Study

Technology for Emission Reduction and Eco-Efficiency
- Review and Update of Methods Used for Air Emissions Leak Detection and Quantification
- REMVue Slipstream Pilot Installation with BP Canada
- Zero Emissions Wellsite – BP Canada Validation of Sun Pumper versus Tex Steam Units
- Airdar Phase I
- LDAR (Leak Detection and Repair) – Optimizing Leak Detection Methods
- Fixed Orifice Steam Traps

Strategies for Results

Technical Steering Committees

In 2006, PTAC facilitated 15 Technical Steering Committees, and four subcommittees:
- Air Issues Research Planning Committee
- CO2 Enhanced Hydrocarbon Recovery Steering Committee
- CO2 Project Steering Committee
- Drilling Innovators Advisory Group
- Driving Safety Working Group
- Ecological Research Planning Committee
- Heavy Oil Transportation Committee
- Hydrogen and Hydrocarbon Upgrading Planning Committee
- Increased Recovery Steering Committee
- Resource Access Technology Committee
- Soil Research Planning Committee
- Salinity Working Group
- Technology for Emission Reduction and Eco-Efficiency (TEREE) Steering Committee
  - TEREE Marketing Subcommittee
  - TEREE Project Evaluation Subcommittee
- Unconventional Gas Technology Committee
- Viscous Oil Recovery Steering Committee
- Water Innovation Planning Committee
- Wireless and Telecommunications Planning Committee
Auditor’s Report

To the Members of
PTAC Petroleum Technology Alliance Canada,

We have audited the statement of financial position of PTAC Petroleum Technology Alliance Canada as at December 31, 2006 and the statements of operations and changes in net assets, and cash flow for the year then ended. These financial statements are the responsibility of the organization’s management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Canadian generally accepted auditing standards. These standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In common with many not-for-profit organizations, the organization derives revenue from events and other sources, the completeness of which is not susceptible to satisfactory audit verification. Accordingly, our verification of these revenues was limited to the amounts recorded in the records of the organization and we were not able to determine whether any adjustments might be necessary to revenue, excess of revenue over expenditures, assets and surplus.

In our opinion, except for the effects of adjustments, if any, which might have been determined to be necessary had we been able to satisfy ourselves concerning the completeness of the revenue referred to in the preceding paragraph, these financial statements present fairly, in all material respects, the financial position of the organization as at December 31, 2006 and the results of its operations and its cash flow for the year then ended in accordance with Canadian generally accepted accounting principles.

Lo Porter Hetu
Certified General Accountants
Calgary, Alberta,
February 26, 2007

Summarized Balance Sheet
As at December 31, 2006, with comparative figures for 2005:

<table>
<thead>
<tr>
<th>ASSETS</th>
<th>2006</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>$79,239</td>
<td>$51,617</td>
</tr>
<tr>
<td>Marketable securities</td>
<td>406,482</td>
<td>349,375</td>
</tr>
<tr>
<td>(market value 2006 - $406,482; 2005 - $349,375)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>470,212</td>
<td>673,546</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>68,738</td>
<td>50,266</td>
</tr>
<tr>
<td>1,024,671</td>
<td>1,124,804</td>
<td></td>
</tr>
<tr>
<td>Property and Equipment</td>
<td>93,921</td>
<td>40,299</td>
</tr>
<tr>
<td>$1,118,592</td>
<td>$1,165,103</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
</tr>
<tr>
<td>Accounts payable, accrued liabilities</td>
</tr>
<tr>
<td>Deferred revenue</td>
</tr>
<tr>
<td>625,394</td>
</tr>
<tr>
<td>Deferred Contributions Related to Operations</td>
</tr>
<tr>
<td>Net Assets</td>
</tr>
<tr>
<td>Invested in property and equipment</td>
</tr>
<tr>
<td>Unrestricted</td>
</tr>
<tr>
<td>493,198</td>
</tr>
<tr>
<td>$1,118,592</td>
</tr>
</tbody>
</table>

Summarized Statement of Operations
_expenses and surplus for the year ended December 31, 2006, with comparative figures for 2005:

<table>
<thead>
<tr>
<th>Revenues</th>
<th>2006</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project and service revenue</td>
<td>$860,934</td>
<td>$1,701,560</td>
</tr>
<tr>
<td>Canadian Association of Petroleum Producers (CAPP) - R &amp; I MOU</td>
<td>200,000</td>
<td>–</td>
</tr>
<tr>
<td>Membership revenues</td>
<td>578,090</td>
<td>467,339</td>
</tr>
<tr>
<td>Event revenues</td>
<td>245,373</td>
<td>816,809</td>
</tr>
<tr>
<td>Interest income</td>
<td>7,139</td>
<td>9,443</td>
</tr>
<tr>
<td>$1,891,536</td>
<td>$2,995,151</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct project and service costs</td>
</tr>
<tr>
<td>Salaries and benefits</td>
</tr>
<tr>
<td>Direct event costs</td>
</tr>
<tr>
<td>Rent</td>
</tr>
<tr>
<td>Office and equipment leases</td>
</tr>
<tr>
<td>Marketing</td>
</tr>
<tr>
<td>Computer and web site</td>
</tr>
<tr>
<td>Printing and publications</td>
</tr>
<tr>
<td>Amortization</td>
</tr>
<tr>
<td>Bad debts</td>
</tr>
<tr>
<td>Professional fees and bookkeeping services</td>
</tr>
<tr>
<td>Insurance</td>
</tr>
<tr>
<td>Bank charges and credit card discounts</td>
</tr>
<tr>
<td>$1,786,080</td>
</tr>
</tbody>
</table>

| Excess of revenues over expenses related to operations | $105,456 | $118,034 |

| Other |
| Loss on write-off of leasehold improvements | (2,331) | – |

| Excess of Revenues over Expenses | $103,125 | $118,034 |

The complete audited financial statements of PTAC for the year ended December 31, 2006 are available from PTAC offices upon request.
Unparalleled Value – Our People

Board of Directors
As of March 15, 2007
Lorraine Whale, Chair, PTAC
Manager, In Situ Oil Sands Research, Shell Canada Limited
Rich Kerr, Past Chair, PTAC
Chief Engineer, Nexen Inc.
Eric Lloyd, President, PTAC
Petroleum Technology Alliance Canada
Grant Arnold
Gas Systems Manager, Suncor Energy Inc.
Doug Cault
Assistant Deputy Minister, Oil and Gas Division, BC Ministry of Energy, Mines and Petroleum Resources
Claude Durocher
President, Schlumberger of Canada
Dale Dusterhoft
Vice President, Technical Services, Trican Well Service Ltd.
Cal Fairbanks
Vice President, Canada HSE Inc.
Michael Gatens
CEO, Unconventional Gas Resources Canada
Thomas G. Harding
Professor and Head of the Department of Chemical and Petroleum Engineering, University of Calgary
Fred Hutchings
Chairman, VaporTech Energy Services Inc.
Eddy Isaacs
Managing Director, AERI Alberta Energy Research Institute
Pam Lulman
Manager, ExplorationTechnical Excellence, ConocoPhillips Canada Limited
Ernie Pappas
Vice President, Energy, Saskatchewan Research Council
Susan Payne
Manager, Engineering and Project Management, Husky Energy Inc.
Ian Potter
Vice President Energy, Alberta Research Council
Ken Putt
Independent Board Member
Randy Rudolph
Manager, Air Quality Services, AMEC Earth and Environmental
Dave Rushford
Vice President, Business Services, Canadian Plains Division, EnCana Corporation
Earle Shirley
Executive Manager, Applications Branch, Alberta Energy and Utilities Board
Rolf Stokhuizen
Industrial Technology Advisor, Alberta/NWT, National Research Council’s Industrial Research Assistance Program
Chuck Szmurlo
Vice-President, Enbridge Pipelines Inc.
Murray Todd
President, Tod Resources

Membership Revenue by Category
PTAC was pleased to increase our organization to 234 members grossing $578,090 revenue at year-end 2006. PTAC provides a variety of services and benefits to its members including collaborative research and technology development project facilitation services, event coordination, event registration discounts, access to the knowledge centre, opportunities to serve on technical steering committees, and a complimentary bi-weekly newsletter.

Project Expenditure by Technical Area
Since our inception in 1996, PTAC has facilitated the launch of 213 projects or new project phases valued at $127.7 million. Of those, PTAC facilitated the launch of thirteen new projects or project phases valued at $4.5 million in 2006.
A Strong Commitment to R&D

PTAC Members

232 members as of March 15, 2007

Producers – 33
ARC Resources Ltd.
BiP Energy Corp.
Boxley Energy Trust
Canadian Natural Resources Ltd.
Chevron/Beaver
ConocoPhillips Canada
Devon Energy Corporation
Dominion Exploration Canada Ltd.
EnCana Corporation
EnMark Inc.
Enhance Energy Inc.
Husky Energy Inc.
IPF Technologies (Canada) Inc.
Imperial Oil Limited
Kenect Energy Ltd.
Laricina Energy Ltd.
Nexen Inc.
Norsk Hydro Canada Oil & Gas Ltd.
North American Oil Sands Corporation
Paramount Resources Ltd.
Pengrowth Management Limited
Penn West Petroleum Ltd.
Petra-Canada Resources
Pioneer Natural Resources Canada Inc.
Point Energy Ltd.
PrimeWest Energy Inc.
Qcri/Quiskriver Resources Canada Inc.
Shell Canada Resources Ltd.
Suncor Inc. – Resources Group
Talisman Energy Inc.
Total Exploration and Production Ltd.
Trident Exploration Corporation
Westcom Gas Resources Canada Company

Transporters / Midstream Processors – 6
ATCO Pipelines
Duke Energy Gas Transmission
Enbridge Inc.
Kayers Energy Ltd.
Kinder Morgan CO2 Company L.P.
TransCanada Pipelines Ltd.

Venture Capital – 1
Carr Therapeutics

Research Providers – 8
Alberta Research Council
Alberta Sulphur Research Ltd.
BlackQuest Laboratories Inc.
Natural Resources Canada (CANMET)
Petroleum Technology Research Centre
Saskatchewan Research Council
TIPM Laboratory (Perm Inst.)
University of Ottawa – Department of Chemical Engineering

Learning Institutions – 8
Lakeland College – Institute for Innovation Skills
Mount Royal College.
Institute of Applied Research and Innovation
Southern Alberta Institute of Technology
University of Alberta
University of Calgary
University of Northern British Columbia
University of Regina, Faculty of Engineering
University of Saskatchewan

Government – 5
ALRI Alberta Energy Research Institute
Canadain Revenue Agency
Government of Yukon – Oil & Gas Management Branch
Provincial Government of British Columbia
Saskatchewan Industry and Resources

Individuals – 7
Blair, Jim
Flin, Len
Hooper, Dewyer
Kenny, James
Par, Ken
Todd, Murray
Weir, Robert

Service and Supply Companies – 164

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3M Canada – Oil and Gas Division
Abandonite
Accurate Inc.
Advanced Geoscience Inc.
Advanced Measurements Inc. – Oil and Gas Division
AGAT Laboratories Ltd. – Hydrocarbon Division
Air Liquide Canada Inc.
Alberta-Pacific Forest Industries, Inc. – Woodlands Division
Alfa Laval – Process Technology Oilfield Market Unit
ALS Environmental
AMEC Earth & Environmental
Ametek Aeronautical Limited
APL Petroleum Engineering Inc.
Aquapure Ventures
AquaSynergy LLC
ARCADIS Canada
Atrix Enterprises
Aviron Industries
Blast Ltd.
Brenntag Sinus Logistics
Brine-Add Fluids Ltd.
C5 Oilfield Enterprises Ltd.
Canada Tech Corp
Canadian Fertilizers Limited
Canadian HSC Registry
Candeal Water Systems
Cartron Systems Inc.
Carviso Environmental Inc.
Century Freo Services
Clearenergies Engineering Ltd.
CO2Scan Ltd.
Combo Energy Services Inc.
Computer Modelling Group Ltd.
Crase Geometrics Limited
Custom Environmental Services Ltd.
Daily Oil Bulletin
DAUKA Canada
Data/Drill Communications
D.E. Towan and Associates Inc.
Decision Dynamics Technology, Ltd.
Deloitte – Research and Development, Tax
DHV Canada Inc.
DFP Prince Consulting Ltd.
IBA Engineering Consultants Ltd. – Research Department
EcoMax Energy Services
EcoRoads Ltd.
Emission Process Management – Copeland Scroll
ENEFEN Energy Efficiency Engineering
Energy Navigator Inc.
Enhanced Recovery Services Inc.
Envirosound Controls
Environ Products Inc.
EnvironTech Engineering
Epix Consulting Services Ltd.
Ernst & Young Chartered Accountants LLP
Eski Environmental Sensors Inc.
Extreme Telecommunications Corp.
Fekete Associates Inc.
Ferox Gas Industries
Fiber Optic Systems Technology Inc. [PECTEK]
Flex Safety International Corp.
Flashnet
Flashwater Technologies – a Division of Westcor Energy
Gonnelle Ltd.
Golix Liquids Engineering Ltd.
G-Chem Environmental Ltd.
geoLOGIC systems Ltd.
Golden Eddy Solutions Ltd.
Gowling Lafley Henderson LLP
[Intellectual Property Development]
Green Imaging Technologies
GoldOne, Inc.
Hatch Optimas Ltd.
Highway Safety Group
Imricor Completion Systems
Innovative Chemical Technologies Canada Ltd.
Innovative Chemical Technologies Canada Ltd.
Internet.com Technologies Canada – Western Division

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John Zink Canada
Kaiser Environmental Services Inc.
Katch Kan Limited
KPMG High Technology Practice Group
Kudus Industries
Little Guy Oilfield Rentals Inc.
Lulule Inc.
Lunar Services Ltd. – Technology Department
LRI Performing Systems Inc.
LDX Photonics Inc.
MacLeod Dixon (Technology Enterprise Group)
Mactronic Energy
Matrix Solutions Inc.
MCI Resources
Meridian Environmental Inc.
Millennium EMS Solutions Ltd.
MRCan Services Ltd.
National Slicettes – Drilling Fluids Group
New Paradigm Engineering Ltd.
Nexfra
Noetic Engineering Inc.
Norwest Corporation
Oasis Emission Consultants Inc.
OMAT Technologies – North America Waste Heat Recovery Group
Outland Technologies Inc.
P.C. Services International
Panasonic Toughbook
Randall Technology Corporation
Ramos Systems Inc.
Pathcom Wireless Inc.
Petrofac
ProCan Technology Inc.
PCL Technologies Inc.
Pmaline Marketing Canada, L.P.1
PointCross, Inc.
Pollteck Associates Inc.
Power Optimization Inc.
Prairie Mobile Communications
Pulsera Canada Inc.
PresSol Ltd.
PriscewaterhouseCoopers LLP Technology (TICE) Practice
Primrose Drilling Ventures Ltd.
Process Ecology Inc.
Pro-EnviroCore Consulting Inc.
Pulsetech
PPI Premium Camp Services
Q2Max Solutions Inc.
Quadriise Canada Fuel System Inc.
Rapid Technology Corporation
Reaper Pumps Inc.
REM Technology Inc.
Regator Communications Inc.
Ruol Enterprises Ltd.
RWK Air Inc.
SAC Canada
Sclair of Canada
Schluumberger of Canada
Scientific Drilling International (Canada) Inc.
SNC Lavallin Marine Environmental
Spruce Associates Ltd.
Stantec Consulting
Storm Cat Energy Corporation
Tandem Associates Environmental Sciences
TELUS Business Solutions, Energy Vertical
The Moorhead Group LLC
T.I. Watson & Associates Inc.
TOCOR Canada Inc.
Total Combustion Inc.
TPI International
Triac Well Service Ltd.
Triple D Technologies Inc.
Turbo Controls Ltd.
UNICO Inc.
UTI Limited Partnership
VaporTech Energy Services
VECO Canada Ltd. – Alliance Group
Waideo Inc.
WellDrill Consulting
Western Corrosion Technologies Inc.
WellParnas Komex
XEROX Processing Inc.
xe solutions – Marketing and Sales Department
Ziko

Founding Supporter
Canadian Business Networks Coalition (CBNC)
Supporting the Mission

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