

THE OFFICIAL PUBLICATION OF THE CANADIAN ASSOCIATION OF DRILLING ENGINEERS

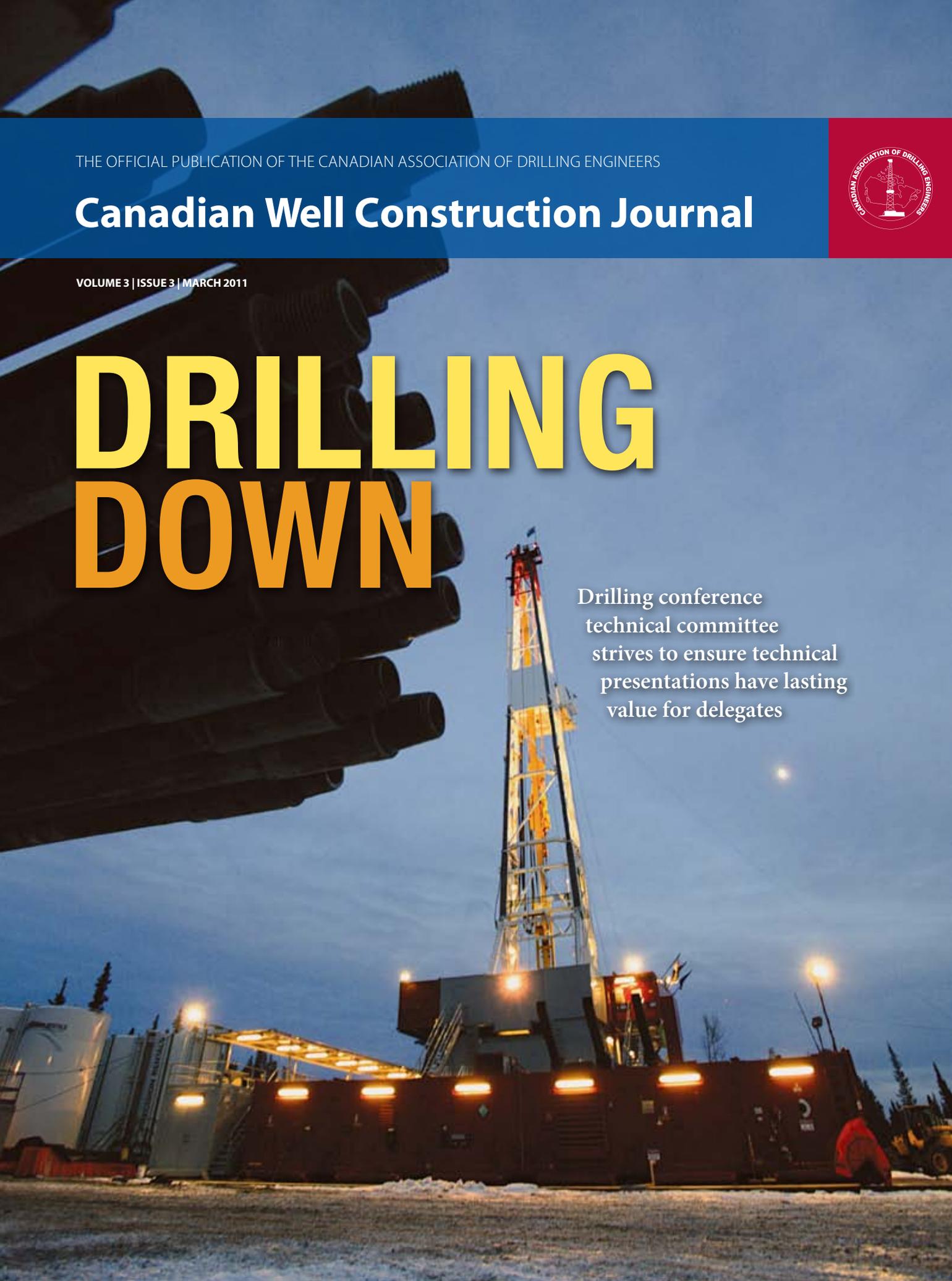
Canadian Well Construction Journal



VOLUME 3 | ISSUE 3 | MARCH 2011

DRILLING DOWN

Drilling conference
technical committee
strives to ensure technical
presentations have lasting
value for delegates



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President's Message

I started in the patch in 1978 as a yardman with Air Drilling Services in Nisku, working for Tom Ramsay. I wrote a grade 12 final exam in the morning, was in the shop by 2 p.m. and by late afternoon was on the way to Cantex Drilling's Rig 12 in Bearberry, Alta., to help rig out a compressor package. Dave Kostura was the supervisor and I'll never forget my first exposure to a rig; I knew right away that's where I wanted to be.

The late 1970s prior to the National Energy Program were busy. I ended up cementing for BJ Hughes in 1979 in Nisku. My station manager was Jim Stevens and my first supervisor was Chris Miko (by the way, Chris now works for Kaiser in Calgary and is my son's godfather). I was a kid of 19, Chris was 20, and this was a lot of responsibility; I always remember the old wellsite supervisors (guys like Harry Meraw, Moon Marcino, Fred Langevin, Dave Shanks, Carl Shane) telling us how things were when they were in the patch. Always tougher, more dangerous; men were men.

I worked my way up the ladder in the 1980s, from equipment operator to field sales to station manager. I called on field offices (new grad engineers and technologists at Gulf, Amoco, Chevron, Suncor, Norcen and Imperial) and drilling and service rigs in the field (new grad engineers and technologists at Saskoil, Home Oil, Imperial and Gulf). All of us were trying hard to make our way in a tough business, and you had better be prepared to learn, as again, the older, experienced field people let you know exactly what you knew.

Continuing on the service side, from time to time I would end up out of the field and in Calgary with downtown salesmen from BJ (Gord Poulton, Ted Madro), Fracmaster (Lorne Bartley, Don Bruce, Doug Ramsay) and Jani International (Al Guske). Again, I was the young guy in the big city, with all the old guys telling me exactly what I knew and me just trying to keep up.

Through all the years, we have all been told to pay our dues and learn the job. Every step of the way when we stubbed our toes, the older, experienced people we ran into would roll their eyes, smile a smile (we'd hope), and have a sarcastic word or two; but to a person, they would pick us up, dust us off, share their experiences and pass along their knowledge and wisdom. Everyone in the field would embrace the newest and latest, but kept an eye on the past to make sure the same mistakes weren't made. If I told Moon Marcino or Fred Langevin that they were mentoring me, they would probably smile and roll their eyes.

So, where am I going? A while back I got on an elevator and had a shock when I saw my Dad in the mirror. It was then I realized I have turned into one of the old salty dogs of the oilpatch. Since then, I have caught myself smiling, rolling my eyes and telling some of our young talent, "what are you possibly thinking?"

So not only have I turned in to my Dad, I have turned into Moon, Fred and Dave. A piece of every one of my mentors has taken me here, plenty I have not mentioned, as the oil industry has been so good to me and my family.

On January 27, CADE, along with the University of Calgary (U of C) and SAIT, co-sponsored a student-industry mixer night. Fifty U of C and an equal number of SAIT students and 40 industry representatives attended, with financial contributions from XI Technologies, BakerHughes, Calfrac, ARC Resources, Nexen, APEGGA, the Energy Resources Conservation Board (ERCB), Pengrowth, Pason and BOS Solutions. Eight presentations were given by industry professionals to introduce new graduates to drilling, completions, regulatory, marketing and facilities. Thanks to Terry Elliott, Darryl Firmaniuk and Leslie May (Baker Hughes); Luisine Jatem (Suncor), Glenn Leroux (BOS Solutions), Carol Crowfoot (ERCB), Hassan Malik (Conoco) and Ron Bietz (Encana).

This event was well-organized (by the students), well-received and well-attended. When this sort of event can attract leaders of industry and academia (Gordon Moore and Raj Mehta from U of C and Faramarz Azar-Nejad from SAIT), something was done right. Thanks to Ramez Hanna Alla.

What I discovered is this: there is a young crop of engineers and technologists coming out of our institutions that are well worth our time. They are smart, quick to learn, business-savvy individuals who thrive in a team atmosphere. Long and short, our industry is in great hands and I can't wait to see where they take us.

I'm still going to smile and roll my eyes, though I'm sure the old boys thought the same thing when we were young.

John Garden, P.Eng.
President, Canadian Association of Drilling Engineers

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Cover photo: Joey Podlubny

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Managing Editor: Christian Gillis

Advertising Sales: Nick Drinkwater

Published by: JuneWarren-Nickle's Energy Group

CADE's mandate is to provide high-quality technical meetings to promote awareness of the drilling & well servicing industry. Through CADE, members and the public can learn about the technical challenges and experience gained from our speakers, who are most often CADE members themselves. We invite you to join CADE and further your professional development.

Past issues of CADENews are available online.

Current issues of Canadian Well Construction Journal are available via email, to CADE members only. CADE is not responsible for any opinion or statement expressed in this publication.



Association/Membership News

Editor's Note

Welcome to the March issue of the *Canadian Well Construction Journal*. The winter season doesn't seem to want to start winding down at all, but instead for most people the frost can't stay in the ground long enough. The industry seems to be full of hustle and bustle and people seem to be excited about the opportunities upcoming in 2011. The peak in activity, however, doesn't have everyone excited. Many operators are scrambling to find equipment to finish or start their winter programs and service companies are in the all too-familiar position of being short on equipment and personnel.

Our feature story this issue is on the upcoming 2011 Drilling Conference. Aimée Barnabé has been working at keeping us informed about what to expect at this year's drilling conference.

The February technical luncheon featured a presentation on multistage fracturing technology presented by Eric G. Schmelzl, P.Eng. completions and production technology manager for Halliburton Canada. The upcoming March technical luncheon features a presentation by John Ravensbergen of Baker Hughes Inc. on pressure pumping.

We are continuing to review ideas for the 2011 technical luncheon presentations as well as story ideas for the journal. Please don't hesitate to contact us if you have any ideas for upcoming topics or issues you'd like to see presented at the luncheons or in print. We hope you, the membership, will participate and continue to make these events interesting and successful. If you have any issues you'd like to see covered, please email me and we will do our best to get the story.

Don't forget, we would like to publish any of your information and announcements on new products, new technologies and senior personnel changes for publication each month. Please forward any announcements to us, as we would be excited to run them in our new features section.

We appreciate your continued support and look forward to seeing you at the upcoming luncheons and the conference.

Christian Gillis, Managing Editor, Canadian Well Construction Journal

christiang@deadeye.ca | phone: (403) 265-4973

CADE Technical Luncheon

Date	Speaker: John Ravensbergen
Wednesday, March 9, 2011	Baker Hughes - Pressure Pumping
Place	Topic: Cased-Hole Multistage Fracturing: A New Coiled Tubing-Enabled Completion
The Westin, Calgary	Multistage proppant fracturing of horizontal wells has changed the economic landscape of the North American oil and gas industry. Open-hole ball drop completion systems are an economic solution for many operators, however alternative completions systems are emerging into the marketplace. This presentation will describe a novel coiled-tubing (CT) actuated, predominantly cased hole, CT Frac Sleeve completion.
Time	
11:30 a.m.—Reception	
12:00 noon—Luncheon	
12:30 p.m.—Presentation	

This presentation will explain how it works and how operators are taking advantage of several new capabilities not available in other completion systems. The new capabilities that will be described include better placement control of each treatment and an unlimited number of treatment stages resulting in better drainage of the reservoir.

John Ravensbergen is a professional engineer and a member of the Society of Petroleum Engineers (SPE) and the Association of Professional Engineers Geologists and Geophysicists of Alberta. He is a University of Calgary graduate with 21 years' experience in the oil and gas industry. The majority of his career has been spent working in research and development, first with Nowasco Well Service Ltd., then with BJ Services Company as a design manager. In the last four to five years his focus has been on multi-zone fracturing systems and processes using coiled tubing. John has authored several SPE papers and is an inventor with 15 patents.

CADE Technical Luncheon Ticket Price Increase

Effective September 1, 2010, the following ticket price increases will take effect (prices include GST):

Visit cade.ca for all ticket purchases

Members: \$45

Full tables of 10: \$450

Walk-up: \$55

Non-members: \$55

Student: \$15

GST Registration #R123175036

Upcoming Events

CAODC Annual Luncheon & Ball

Friday, March 4, 2011

Calgary TELUS Convention Centre

CADE Technical Luncheon

Wednesday, March 16, 2011

The Westin, Calgary

CADE Technical Luncheon

Wednesday, April 6, 2011

The Westin, Calgary

Association/Membership News

Welcome New Members

NAME	COMPANY	TELEPHONE	EMAIL
Catherine Allen	Canadian Discovery Ltd.	403-269-3644	callen@canadiandiscovery.com
Allen Bekolay	Komat Drilling Ltd.	403-875-5580	allenb@komatdrilling.com
Diane Chua	Boyden Global Executive Search	403-267-6603	dchua@boyden.com
Shawn Emran	University of Calgary	403-606-3436	shawn.emran@gmail.com
Scott Godlien	1548048 Alberta Ltd.	403-851-0043	sgodlien@shaw.ca
Al Guske	Peak Completions Technologies Inc.	403-705-8558	al.guske@peakcompletions.com
Tezla Hayduk	Canadian Discovery Ltd.	403-269-3644	thayduk@canadiandiscovery.com
Mike Lawson	Superior Coring Systems Inc.	403-241-2780	mlawson@superiorcoring.ca
Rob Lougheed	Energy Resources Conservation Board	403-297-8769	rob.lougheed@ercb.ca
Chris MacQueen	Waterford Energy Services Inc.	902-861-1964	c.macqueen@wesi.ca
Adam Marsh	University of Saskatchewan	403-232-4171	awm951@mail.usask.ca
John McEvoy	Canadian Discovery Ltd.	403-269-3644	jmcevoy@canadiandiscovery.com
Ken McInnis	Horizon North Camps & Catering	403-517-4671	kenm@horizonnorth.ca
Chris Miko	Kaiser Exploration Ltd.	403-231-8026	chrismiko@kfoc.net
Calum Neff	Xact Downhole Telemetry Inc.	403-568-6010	cneff@xactinc.com
Randy Nicklom	Behr Energy Services Ltd.	403-444-6940	randy.nicklom@behrenergy.com
Charles Nwaoji	University Of Calgary	403-210-9803	conwaoji@ucalgary.ca
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Zenon Pylypec	Pace Oil & Gas Ltd.	403-705-8528	zpylypec@paceoil.ca
Muhammad Qamar	Dalhousie University	403-813-6298	ali_qamar@hotmail.com
Awais Rasool	Husky Energy Inc.	403-513-7729	awais.rasool@huskyenergy.ca
Dave Rowley	Divestco Inc. Drilling Records	403-219-7253	dave.rowley@divestco.com
Pablo Toy	TenarisAlgoMaTubes Canada	403-767-0209	ptoy@tenaris.com
Susan Warren	Shell Canada Energy	403-691-3391	susan.warren@shell.com
Jonathan Yung	Apache Canada Ltd.	403-531-6541	jonathan.yung@apachecorp.com
Myles Zimmer	Crescent Point Energy Corp.	403-787-6907	maz003@mail.usask.ca

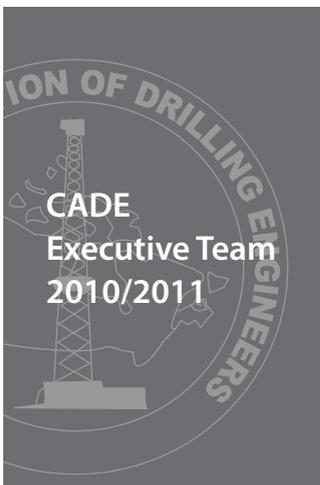
CADE Membership Renewals 2010-2011

CADE membership year is September to September. CADE members should have received an email and link to the renewal process and site. Please remember the benefits of being a CADE member include APPEGA's professional development hour, staying abreast of technological and industry advances, drilling conferences and a great opportunity to network. All renewals/applications received on or before Nov. 1, 2010, will be included in the CADE 2010-2011 Annual Directory (unless otherwise requested). Thank you for your support!

CADE Membership/Change of Address

Log on to cade.ca to become a member or update your address using our online form.

TITLE	NAME	TELEPHONE
President	John Garden	403-265-4973
Past President	Patrick Murphy	403-266-7383
Vice-President	Eric Schmelzl	403-290-7699
Secretary	Tammy Todd	403 613-8844
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Executive Member	David White	403-699-5160
CAODC Liaison	John Pahl	403-292-7966
Marketing	Shannon Bowen-Kelsick	403-992-4142



STUDENT PROFILE – SAIT



Shawn Bonnah

Petroleum Engineering Technology, SAIT Polytechnic

I am a first-year student in the Petroleum Engineering Technology program at SAIT Polytechnic. Prior to my schooling, I held several jobs that were industry-related. These included wireline perforating, cementing, operating a service rig and operating a coil tubing rig. I also spent a short period of time in downhole tool development, working on fracturing systems. The majority of my time has been spent around the Lloydminster area of Alberta working on heavy oil wells, but I have travelled from Estevan, Sask., to Fort St. John, B.C., and everywhere in between.

I began my career in the petroleum industry fresh out of high school and have never looked back. I believe that my previous field experience gives me a step up in the Petroleum Tech program, in that I can better relate to what is being taught.

This summer, I am very open-minded in my search for a career path. The only plan set in stone is to find something that will turn into a full-time position, post-graduation. That being said, I am somewhat biased towards being an engineering technologist with a service company; I have a soft spot in my heart for the process of fracturing.

Ramez Hanna Alla

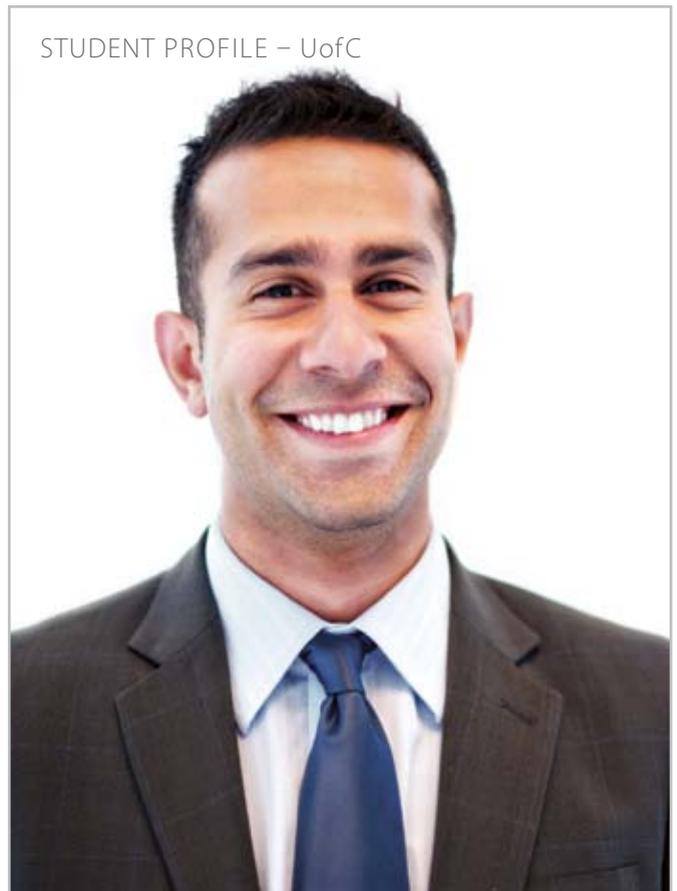
Mechanical Engineering, University of Calgary Vice-president, Growth & Development, Petroleum & Energy Society (PES)

Ramez Hanna Alla is a fourth-year mechanical engineering student with an energy and environment specialization at the University of Calgary. Involved in numerous activities around campus, including the Mechanical and Manufacturing Engineering Student Society, PES, the Schulich School of Engineering Open House and a member of the organizing committee for the Alberta Student Energy Conference, he plans to use his acquired skills to help support his peers and continue with his personal development.

Ramez has had two years of industry experience ranging from wastewater remediation research with the Alberta Ingenuity Centre for In Situ Energy, to tight gas operations, shale gas drilling and shallow gas productions with Encana Corporation.

His biggest joy is relaxing with his friends and family and spending some quality time driving and riding his motorcycle. He strongly believes in having a good time while working hard and is easily approachable, so he invites you to stop him and chat when you see him.

STUDENT PROFILE – UofC



MEMBER PROFILE

Photo: Mike Buker



Mike Buker

**Senior vice-president, business development,
Phoenix Technology Services**

Describe your current job, your background and career path.

My current position is senior vice-president, business development, with Phoenix Technology Services LP, a directional drilling company based in Calgary. My responsibilities include managing Phoenix's international operations, research and development group, optimization department and the domestic sales and marketing efforts. My career at Phoenix started in March of 1998, when I was hired as a technical marketing representative, before being promoted to Canadian sales manager and vice-president, sales and marketing. I joined the CADE executive committee in the role of education chairman in 2003. My responsibilities at CADE include administering the scholarship and bursary programs. CADE has four scholarships in place at the University of Calgary, University of Alberta, SAIT Polytechnic and NAIT [Northern Alberta Institute of Technology]. We are currently studying the feasibility of expanding our scholarship program to additional post-secondary institutions. CADE also sponsors a bursary program that is designed to support CADE members who are furthering their education in a petroleum engineering-related field of study. We recently announced \$9,000 in bursary awards for 2010.

What is the most rewarding part of your job?

My role at Phoenix allows for a lot of entrepreneurship. When we decide to expand operations into a new international market we are essentially starting an entire division from scratch. There are many challenges in starting a business unit, including cultivating relationships with clients and suppliers, building the right team of staff, learning the optimal operating parameters in a foreign market and dealing in a foreign language. Along with these challenges

comes a tremendous amount of satisfaction and pride when that division successfully completes its first well and builds upon that success. Additionally, I have been very lucky to work with a fantastic group of people at Phoenix. The company has enjoyed considerable growth, especially over the past five years, and this can be directly attributed to the quality of its people.

What is the toughest part of your job?

My current responsibilities require that I spend a lot of time on the road away from my family. I am very fortunate to have a wife and kids who understand this comes with the territory but it does get difficult being away for long periods of time. Managing Phoenix's international growth has provided me with an incredible opportunity to visit many interesting places that I would not have visited otherwise. Over the past four years I have studied expansion opportunities in Peru, Colombia, Guatemala, Mexico, Romania, Germany, Turkey, Syria, the Netherlands, Kuwait and Saudi Arabia. I have come to realize one very important fact while visiting oil and gas operations around the world: Canadian oilfield expertise, ingenuity and technology is respected the world over. Canadians carry a tremendous amount of admiration in the international oil and gas sector and this is something we should all be proud of.

What do you like to do when you are not working?

When I'm not working I enjoy spending time with family and friends. My wife Carri and I and our kids Jesse, Emma and Kaity spend as much time in Invermere, B.C., as we can, skiing, boating, swimming, golfing and fishing. We also enjoy travelling, usually finding somewhere warm and sunny in the winter.

FEATURE STORY

Photo: Jeey Podlubny

DRILLING DOWN

Drilling conference technical committee strives to ensure technical presentations have lasting value for delegates

By Almée Barnabé

Old Fields. New Ideas. Technical and operations personnel are constantly being challenged to find new ideas to drill and complete wells in mature basins. Industry's growth is dependent upon the ability to look at previously accepted old solutions and develop innovative and potentially unconventional new ideas to sustain Canada's place as a technological leader on a global scale.

The CADE/CAODC Drilling Conference Technical Committee has been sorting through the abstract submissions over the last several months to select presentations for the conference program. The one-day conference will take place on May 12, 2011, at the Telus Convention Centre in downtown Calgary, Alberta. The occasion brings together a unique mix of engineers, operators, contractors and technical representatives to share innovations, new techniques, best practices and the latest solutions.

Technical committee co-chair Ron McCosh, currently the manager of market development and technical sales with Volant Products, has been on the conference's technical committee for four years. He cut his teeth as a drilling engineer with companies like Dome Petroleum, Challenger Drilling and CenAlta Petroleum, so he knows a thing or two about technology and how its continuing development can be applied in the field to improve well construction efficiency.

McCosh and technical committee co-chair Mark Scholz, who is the manager of technical services with the Canadian Association of Oilwell Drilling Contractors, have assembled a team of subject matter experts in drilling and completions to review, evaluate and select the presentations that will make the cut to the drilling conference program.

This depth of talent on the technical committee—with representation from the producer group as well as the drilling and service and supply sectors—makes for a thorough and rigorous review process.

"If you are a hammer than everything looks like a nail," McCosh explains. "It is important to have a good variety of perspectives to evaluate the submissions."

McCosh is a big believer in the importance of the CADE/CAODC Drilling Conference.

"Delegates get real value from attending this event," he says. "I get something out of every conference I go to. It is the sharing of ideas, the interaction with peers and meeting new people that delivers immeasurable worth."

The drilling conference technical committee structured the technical submission guidelines to be less restrictive than other events to encourage more participation from authors.

Unlike other technical conferences, formal technical paper submissions are not required. A 200-300 word abstract gives the technical committee a snapshot of the concepts to be presented, and a 15-20 minute presentation is all that is needed. This allows organizations to share general concepts without exposing proprietary information.

For the formal evaluation process, each technical committee member reviews and scores each submission against the same criteria:

- Purpose and reason for work
- Quality and quantity of data
- Amount of operator participation
- Application to industry
- Relevance to theme of conference

In addition, they ask questions: has the concept been presented before in other forums? Is it really new, or is it just old technology tied with a ribbon to make it look new? Is it unique to drilling and completions in Canada? Is there a case history to support the theory? And above all, will it bring value to delegates?

Subject matter being sought in the 2011 edition of the conference includes:

- Shale gas/tight gas/coalbed methane
- Steam assisted gravity drainage
- Horizontal and extended reach drilling
- Managed pressure drilling
- Drilling fluids advancements
- Integrating emerging technologies
- Measurement while drilling and logging while drilling
- Coil tubing applications
- Regulatory and environmental protection updates
- Rig specific designs/case studies
- Logistics and site construction
- Multilateral technologies
- Well-control case studies/issues/learnings
- Hostile operating environments
- Creative cementing
- Operator risk assessment and mitigation
- Rotary steerable applications
- Drilling waste opportunities
- New drilling rig concepts
- Novel well design processes
- Concurrent wellsite operations
- Research and development initiatives in drilling
- Labour training initiatives
- Innovative completions
- Multi-well pads

The technical committee has received a broad spectrum of abstracts for the 2011 conference. Some are great, and will easily make the cut; others are missing just a key bit here and there and will fall by the wayside. The difference, McCosh says, is all in how the proposed concept is presented in the abstract.

“A great abstract is an innovative idea, validated by field performance data in the Canadian oil and gas market,” he says.

In other words, abstracts that describe all applications in the drilling process that improve efficiencies and produce economically are ideal.

McCosh and his team are looking for something new and of lasting intrinsic value for the audience, but he admits that it is not always easy to get that special combination of new technology and case history.

“Advances in technology are not top of mind during slow periods like the one we have just experienced,” he says.

Still, the presentations selected are timely, relevant and definitely point to a bright future in the drilling and completions sector, he adds.

“Delegates should expect to walk away with a sneak peek into innovative drilling and completions programs in the Western Canadian Sedimentary Basin.”

Presentations, however, are just one piece of the conference puzzle. How the sessions are moderated, and the question and answer session that follows each presentation, can often spark a debate that takes the subject to another level, and lead to conversations that can last beyond the conference itself.

“If the speaker captures the interest of the audience there can be a very specific and lively dialogue that happens afterward,” McCosh says. “That is sometimes the best part of the whole day.”

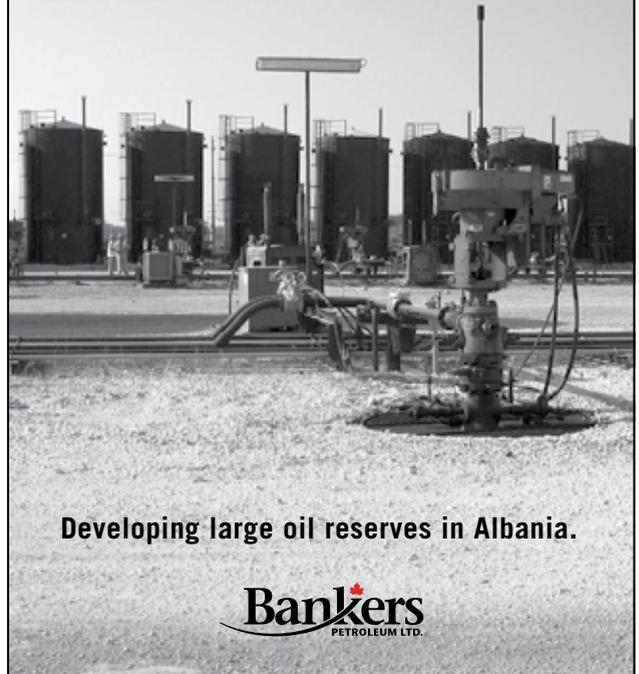
The evaluation process for submissions is underway and the team expects to release the technical presentation lineup in March. For more information on this year’s conference or to register online, visit the website at www.drillingconference.ca. ■

1 in 6

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Safety Alert (#02—2011)

Explosion and Flash Fire Caused by a Controller Box Failure

Incident Type: Equipment Failure
Release Date: Jan. 11, 2011
Location: Alberta, Canada

Description of incident:

- ▶ An operator arrived at a location and found a screw compressor building blown out.
- ▶ There was minimal damage to the pressure equipment and piping.
- ▶ The damage noted was representative of an explosion and flash fire.

What caused it:

- ▶ It was determined that the explosion and flash fire were caused by a suction controller's regulator diaphragm failure that allowed gas to enter the controller box.
- ▶ The quarter-inch vent line was not large enough to vent the volume of gas passing into the controller box, allowing the gas pressure inside the controller box to build to the point where the door seals failed and gas escaped into the poorly ventilated building.
- ▶ With 10 psi applied to the controller box, the door allowed gas to escape even though the door gasket was in good condition and the door was latched closed.
- ▶ The hot manifold or ignition system may have provided the ignition source for the migrating gases. (The ignition systems on these engines are not intrinsically safe.)

Corrective actions:

- ▶ Buildings should have adequate venting to lower potential LEL (lower explosive limit) content.
- ▶ Hazard and operability assessments should be utilized for hydrocarbon and pressure systems to evaluate the need for fire and LEL detection.
- ▶ Verify that the venting from controller boxes will provide adequate escape for the excess gas pressure created in the event of failure.
- ▶ New packages and reconditioned packages would benefit from rupture panels (explosion relief) in the walls.
- ▶ Preventative maintenance and inspections should include pressure control devices.

Contact: Enform | 1538 – 25 Avenue NE | Calgary, Alberta, Canada T2E 8Y3 | E: safety@enform.ca | T: (403) 250-9606 | www.enform.ca

DISCLAIMER: This Safety Alert is designed to prevent similar incidents by communicating the information at the earliest possible opportunity. Accordingly, the information may change over time. It may be necessary to obtain updates from the source before relying upon the accuracy of the information contained herein. This material is presented for information purposes only. Managers and supervisors should evaluate this information to determine if it can be applied to their own situations and practices.

Stats At A Glance

Drilling Rig Activity *February 17, 2011*

	ACTIVE	DOWN	TOTAL	% ACTIVE
Alberta	468	113	581	81%
Saskatchewan	89	14	103	86%
British Columbia	66	27	93	71%
Manitoba	21	-	21	100%
Western Canada Total	644	154	798	81%
Northwest Territories	2	-	2	100%
Northern Canada Total	2	-	2	100%
Quebec	-	1	1	0%
New Brunswick	-	2	2	0%
Nova Scotia	-	1	1	0%
Newfoundland	1	1	2	50%
Eastern Canada Total	1	5	6	17%
Canada Total	647	159	806	80%

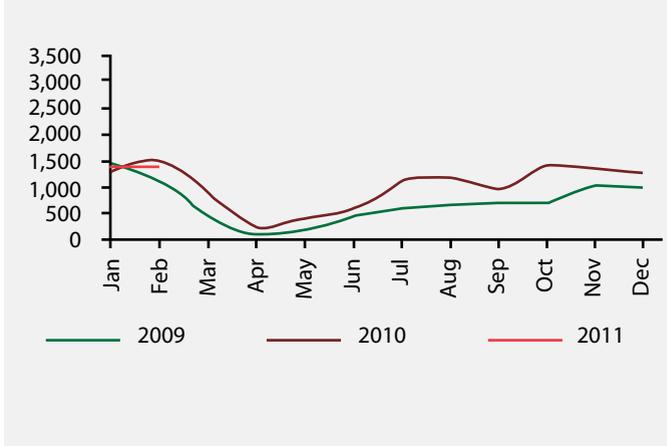
Service Rig Activity *February 17, 2011*

	ACTIVE	DOWN	TOTAL	% ACTIVE
Alberta	441	213	654	67%
Saskatchewan	147	37	184	80%
British Columbia	31	6	37	84%
Manitoba	13	2	15	87%
Western Canada Total	632	258	890	71%
Northwest Territories	1	-	1	100%
Northern Canada Total	1	-	1	100%
Quebec	1	0	1	100%
Eastern Canada Total	1	-	1	100%
Canada Total	634	258	892	71%

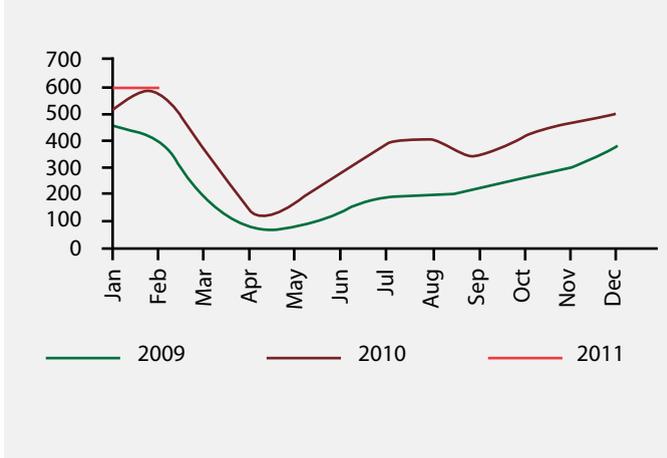
JOURNAL CONTENT

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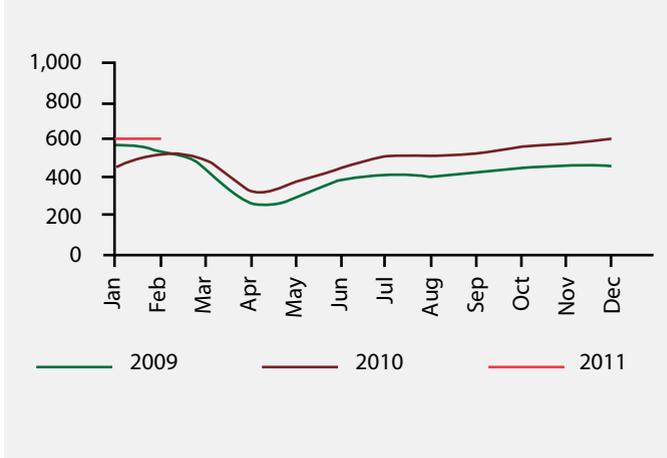
Canadian Wells Rig Released *February 2011*



Active Drilling Rigs in Canada *February 2011*



Active Service Rigs in Canada *February 2011*





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