

OPI NEWSLETTER

THE VOICE OF THE ONTARIO OIL AND NATURAL GAS INDUSTRY

SPRING 2017

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Encouraging responsible exploration and
development of the oil, gas, hydrocarbon
storage and solution-mining industries in
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OPI Conference & Trade Show

in partnership with the
OGSR Library

**MAY
24**
Annual Golf
Tournament

**MAY
25**
Conference
& Tradeshow

**MAY
26**
Core
Workshop

Oakwood Resort, Grand Bend, Canada



The OPI in partnership with the OGSR Library is pleased to present "Play by Play: Exploring the Michigan Basin". We are combining our Annual Golf Tournament and Conference & Trade Show which is scheduled for May 24th – 26th at the Oakwood Resort in Grand Bend.

For more information visit our conference page at
www.ontariopetroleuminstitute.com/news-events/conferences/.

You can register online at www.ontariopetroleuminstitute.com/conference-registration/ or if you prefer to do it the manual way, fill out the paper registration form and return it to the OPI office with payment.



55th Annual OPI Conference and Trade Show Core Workshop, May 26, 2017



Reusable Reservoirs, Natural Gas and Liquid Hydrocarbon Storage Pools of Southwestern Ontario

Presented by Allan Phillips (Clinton-Medina Group)

- Cores from two wells in the Dow Moore 3-21-XII gas storage pool are displayed to show the attributes that make Guelph (Niagaran) pinnacle reefs the ideal natural gas storage reservoirs. This karsted reef reservoir has up to 120m (393') of vertical development giving it a working gas storage capacity of 758.3 million m³ (26.8 Bcf). The carbonates exhibit superior reservoir quality resulting in high deliverability rates and volumes allowing for quick product delivery. The reef is encased in evaporites and the impermeable cap rock seals this storage reservoir.
- Cores from four wells have been selected to illustrate the evaporite and carbonate sequence making up the Salina Group in the eastern rim of the Michigan Basin. Salts in the Salina Group have an aggregate thickness of upwards of 213m (700'). Solution mining of these salts in Ontario has been ongoing since 1866. In the early 1950's the petrochemical industry recognized that feedstock for their facilities could be stored underground in caverns washed out of thick salts around the Sarnia and Windsor areas. Today over 100 active storage wells (71 caverns) are used to store 3.5 million m³ (22 million barrels) of liquid hydrocarbons. Core from a well near Goderich has been included. A partnership is looking at using a suspended salt cavern in this area as a demonstration project for compressed air energy storage (CAES).

Message from the Executive Director

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The early months of 2017 have been full of activity for the OPI. The year began with a Board of Directors and Ontario Oil, Gas and Salt Resources Corporation meetings on January 20th. Highlights from reports of the various Board Committees include meetings arranged for the OPI with the Ontario Energy Board and Ministry of Finance, an update on the 2017 OPI Conference and Trade Show scheduled for May 24-25, 2017 in Grand Bend, acceptance of two new membership applications, and identification of a number of tax related issues from the Tax Committee.

The OPI would like to welcome new members Pat Mousseau and Mohammed Refaei. Mr. Mousseau's membership is of particular significance as he is the Secretary of the Private Natural Gas Well Association. (PNGWA). The OPI has been working closely with the PNGWA since 2015 as it's been recognized that the two groups have a lot in common on a number of industry concerns.

The OPI has been staying abreast of developments with the 2017 Ontario Long-Term Energy Plan, conducting on-going work with the OPI-MNRF (Ministry of Natural Resources and Forestry) Hydrocarbon Sector Working Group, and continuing to promote Ontario exploration opportunities throughout North America.

The OPI has followed up on its submission to the 2017 Ontario Long-Term Energy Plan (Plan). The Plan has received excellent support from Bob Delaney, Parliamentary Assistant to the Minister of Energy. Mr. Delaney joined the OPI in a meeting with the Ministry on March 22nd to discuss the industry's proposal for a Provincial Production Program which would set ambitious targets for exploration and production in the coming years.

As well, the OPI has been in discussion with the Ontario Ministry of Infrastructure on its recent announcement of a \$100 Grant Program to provide natural gas to underserved Ontario communities. The OPI has put forth a proposal to support the industry's involvement in the program.

The OPI-MNRF Hydrocarbon Sector Working Group has been meeting regularly to continue its review of various aspects oil and natural gas operations. In its review the Working Group is drawing on the experience of individuals with a variety of experience and responsibilities from the industry and the Ministry to provide recommendations on improvements to enhance oil and natural gas production.

The OPI attended the 2017 NAPE Summit in February and the 2017 AAPG Convention and Exhibition. Both events were held in Houston, Texas attracting international attendees. At NAPE the OPI was invited to attend an Investors Dinner hosted by the Canadian Consulate that included a considerable corporate presence as well as governments from at least four Canadian provinces.

The Oil, Gas and Salt Resources Corporation at its January 20th meeting was advised by Infrastructure Ontario that the Ontario Oil, Gas and Salt Resources Library's lease agreement is up for renewal. The proposal is under review. The Corporation noted that the 2017 Library Budget approved by the Ontario Oil, Gas

and Salt Resources Trust Advisory Committee included additional support to promote the industry. The Library is also meeting with MNRF Petroleum Operations Section in London to review the operations and evaluate the services provided by the Library to the MNRF.

We are now just a few short weeks away from the 2017 OPI Conference and Trade Show. The OPI is excited about this year's format which has the popular members "Golf Tournament" a day prior to the Conference. We hope that this will enable more members to participate in both events. To attract attendance the OPI met with representatives of the Michigan Oil and Gas Association to promote "Exploring the Michigan Basin" Conference theme.

Please enjoy this issue of the OPI Newsletter and contact me anytime at 519-630-4204 or at hughmoran@ontpetroleuminstitute.com.

Hugh Moran, Executive Director

Training

Well Service BOP and First Line BOP courses have been scheduled back to back in May at the Ramada Inn, London. WSBOP will be from Monday, May 8th – Thursday May 11th and FLBOP will be from Friday, May 12th – Monday, May 15th. Follow this link to get the registration form <http://www.ontariopetroleuminstitute.com/training/> or call Lorraine at the office.

OPI Talking Points

2017 OPI Directory

The annual OPI Directory has been published and delivered to members for the 2017 calendar year. Thanks to everyone who continue to support the printing of the Directory which remains very popular despite the technological world that now exists.

OPI-MNRF Hydrocarbon Sector Working Group

The Working Group has been meeting to review a preliminary list of industry topics and identify the necessary next steps to bring each item forward for discussion. A number of Sub-Groups were formed with experienced members from the industry and the ministry. The Sub-Groups have been tasked to review historical standards, well abandonment standards, well approval process, examiner protocols, and private gas

well policy. The Working Group will review the suspended well policy and inspector protocols. Preliminary reports on all of the reviews are expected by mid-June, 2017. Upon further review a list of recommendations will be prepared for a November 1, 2017 deadline.

PC Blue Ribbon Panel

The OPI participated in a Blue Ribbon Panel organized by the Ontario Progressive Conservative Party. The Panel, chaired by Sarnia-Lambton MPP Bob Bailey, was tasked by PC Leader Patrick Brown to develop policies for the next provincial election on pipelines, oil, natural gas and propane. The group, which included Todd Smith MPP, and PC Party Critic for Energy met at the Western Sarnia-Lambton Research Park in Sarnia on April 19th.

Ontario Energy Board

The OPI met with officials from the Ontario Energy Board (OEB) on February 28th for an information meeting to improve awareness and provide the OEB with background on the various challenges concerning exploration and production in Ontario. The meeting also enabled the OPI to understand the OEB's mandate which is to ensure that the decisions it renders on the delivery of energy considers the interests of the consumer as well as whether or not regulations or the behaviour of regulated entities represent a barrier to a robust and healthy energy industry in Ontario.

NAPE Summit 2017

The OPI attended the NAPE Summit in Houston, Texas from February 15-17, 2017. There were 11,500 attendees at the Conference. The OPI was invited to attend an Investors Dinner hosted by the Canadian Consulate in Houston where there was a considerable corporate presence as well as representation four Canadian provinces: Saskatchewan, Quebec, Nova Scotia and Newfoundland and Labrador.

2017 AAPG Convention and Exhibition

The OPI attended the 2017 AAPG Convention and Exhibition in Houston, Texas from April 2-5. The Convention attracted somewhere between 6,000 to 7000 delegates. In addition to promoting the development of Ontario's oil and natural gas resources a key feature of the exhibit that attracts attention, especially for geologists, is the information and material available on the Ontario Oil, Gas and Salt Resources Library.



George Culver and Michael Hunter at the Canadian Drilling Rig Museum's Open House 2016

GEORGE CULVER, HAPPY 100TH BIRTHDAY, MARCH 16TH

A large group of friends and relatives had the honour of attending a great event, 'a life of 100 years'. The event was held at George's home in Dunnville, Grandview Lodge. The celebration of a great life of family, travel, boating and cottage life and in particular, work in the gas and oil industry in Ontario.

George was born into the drilling contracting business. His father before him had started in the business with George's uncle Pat Paterson; the company Paterson & Culver. He became the Culver in the enterprise in 1937 after his father passed away after an accident. The company worked all over the Ontario 'patch' including putting his rigs offshore in 1960 to drill for natural gas in Lake Erie. At the same time as managing drilling operations, they operated a gas producing company called Lincoln Natural Gas Ltd.

George went from contractor to become manager of one of the companies operating wells in Lake Erie, Place Gas and Oil Ltd. The company had many gas wells and drilled wells from three offshore platforms with cable tool equipment. This is where many individuals got their start in the business and are grateful to George for the opportunity to join an exciting industry.

George and his wife Shirley had 64 wonderful years together. They had a home in Dunnville and a cottage George built with his own hands at Port Maitland. He and Shirley were also life members of the Dunnville Sailing Club. They travelled to too many countries to mention as vacations but there are two destinations

which sparked the interest of the author, which I will explain.

George's father, like many Ontario men in the early drilling industry had to travel away for work. George's father worked in the oil fields in Venezuela during which time young George attended school there. He had always wanted to see where they had been so he went to see the manager of a major oil company in Houston, Texas to gain permission to travel into the oil field to see the operation with the companies blessing. The manager made the arrangements for the trip and George never forgot the manager's name in particular after the man became President of the United States, Mr. George W. Bush Sr. (George says don't eat the chicken there it's Iguana!)

Another adventure George pursued was a very early trip to Iceland. It was of particular interest because since at the time no one went to Iceland for any reason at least not for vacation! When George was asked; why Iceland? He responded, do you know the country has its own drilling, logging, cementing and fracing operations and then the question is again why; it is because they were looking for the geo thermal volcanic steam to run their generators and heat their country, well before the word 'renewable' was popular. George not only studied their operations, on that occasion, but he went back two more times.

George has had a most interesting life and he has shared some of his work life memories and equipment with the Canadian Drilling Rig Museum in Rainham Centre. George has been a large support of the Museum since its inception and continues to attend all functions that the Museum stages, in particular the Annual Open House held each year on the third weekend in September. George will be there with lots of information and stories, you should be there too! (They have great rig beans as part of the food selections!)

*Michael Hunter
Consultant, Resource Link*

Wiikwemkoong Department of
Lands and Natural Resources
Reclamation team

Below: Reclamation team examining
a century old wood structure
surrounding an abandoned well on
the Wiikwemkoong territory.

Opposite: Welcome sign to
Wiikwemkoong.

RECLAIMING OUR FUTURE



Aanii signs stand on the border of the community of Wiikwemkoong Unceded Territory #26 welcoming visitors. The community is the largest Anishnaabek community located on the eastern peninsula on Manitoulin Island in Ontario. The picturesque views of the community spans across the Georgian Bay and Lake Huron. Staring over the water of the Georgian Bay stands Patrick Fox recalling the journey his community has taken over the last 100 years. As the Project Manager at Wiikwemkoong, Patrick is charged with reclaiming their lands from orphaned oil and gas wells.



and gas development evolved in their community from the late 1800s.

"I do this work for my people", Fox states. "Oil and gas development is over 100 years old in Wiikwemkoong. Our Elders can recount stories of how it all started. It was my department's work with the Elders that has led us to locating oil and gas wells around the community".

Through leadership under Ogimaa Duke Peltier, Wiikwemkoong Unceded Territory were clear with the needs and direction the community was going to take. Ogimaa Peltier has advocated for his community at the national

"OIL AND GAS DEVELOPMENT IS OVER 100 YEARS OLD IN WIIKWEMKOONG."

Through the work of the Department of Lands and Natural Resources, Patrick and his team are tasked with cleaning up century old challenges. Each well brought new challenges and new opportunities to understand how oil

level bringing awareness to concerns for his community, for access to safe drinking water and ensuring the future generations in his community can use the land based on the abandonment and remediation work done. The



focus of Wiikwemkoong Department of Lands and Natural Resources has always been to empower and create opportunities for their people.

As oil and gas development is over a hundred years old, generations within this community has understood that these wells were going to need to be cleaned up. Representatives from the federal and provincial governments utilized their expertise to assist Wiikwemkoong in this project. Elaine McIvor and Al McKinnon dedicated hours of work and expertise to ensure the community understood the work they were undertaking and support the work of Patrick Fox and his team. Cheryl Cardinal from the Indigenous Center of Energy has been working with the community since the beginning of the project providing expertise and support to work of the Wiikwemkoong Unceded Territory in abandoning and reclaiming the sites.

The knowledge and connection of their people to the land ensured community members needed to work on the

project. Fox states, "It has been a bit of learning curve but we surround ourselves with the best. We would like to help other First Nations out who might be facing the same challenges. Our focus could be on training, resources, or sharing information. We could provide our services in other communities. We are looking to turn this experience into a positive where we can all benefit in the long run".

Jean Pitawanakwat is a shining example within the Department of Lands and Natural Resources as she transitioned from Environment Technician to Project Coordinator. Her knowledge and skills proved to be a great asset showing funders and partners that one can gain knowledge and expertise to bridge the gap of traditional knowledge with technical expertise. Over the years, Wiikwemkoong Unceded Territory has employed their people, utilized their entrepreneurs and strengthened partnerships with federal and provincial government officials, with oil and gas



and environment companies to tackle their leaking oil and gas wells.

Pipes have been removed from the ground, land has been reclaimed and partnerships have been forged. This community is stronger as they have come together to talk about their history, their land, their water and their future.

For more information on the community of Wiikwemkoong Unceded Territory, please visit their website at:

www.wikwemikong.ca

Industry Pioneer Remembered



George W. Chilian
June 15, 1932 – April 17, 2017

The Ontario oil and natural gas industry and the OPI lost a pioneering and long-time member of the industry. George Chilian, founder and President of Metalore Resources Limited passed away on Monday, April 17, 2017. A native of St. Paul, Minnesota George found his way to Canada to become a pioneer in natural gas development as well as mining ventures. George was active with Metalore in mining exploration for more than sixty-five years; and in natural gas for fifty years where he developed technologically advanced completion and fracturing techniques. George received recognition as a 50 year member of the OPI in 2015.

From The Newsroom

Environmentalists should end the charade over the oil sands

The world needs to take serious action to reduce global greenhouse-gas emissions and keep global temperature increases below 2C above pre-industrial levels. We agree on that. But here's the thing.

Keeping oil sands in the ground and stopping new pipelines will actually increase global GHG emissions. It sounds counter-intuitive, but bear with us.

The story starts with global energy forecasts. Even if there is very aggressive adoption of electric vehicles and renewable energy technologies – which we wholeheartedly support – the world will use more oil each year through at least 2040. According to the International Energy Agency (IEA), if the world goes beyond the aggressive commitments made in Paris and achieves the 2C global goal, then oil demand would fall by 2040. Yet, oil demand will remain high for years after that.

And, since there is no shortage of oil reserves in the world, oil won't disappear on its own any time soon. The world will use more oil even if pipelines are stopped and oil sands remain in the ground.

But, you say, oil sands need to stay in the ground because they are dirtier than other crudes. That used to be true.

In 2014 – on a well-to-wheel basis – the average oil sands barrel emitted 6 per cent to 9 per cent more GHGs than the average barrel consumed (refined) in the United States. This number has come down over the past two years in existing facilities primarily because oil-sands projects are using less energy to produce the same amount of oil.

In fact, newer projects are proving that oil sands can compete on a low-carbon basis. The Paraffinic Froth Treatment (PFT), for example, brings oil sands GHG emissions close to the average crude; it has a low boiling point (so it requires less heat and steam) and it eliminates the need to build upgraders. According to a 2014 IHS Market report, the GHG intensity of oil sands crudes are the same as that of 45 per cent of crude oils supplied to U.S. refineries in 2012. Two-thirds of the crudes in this range came from Latin America, Africa, the Middle East and some U.S. domestic production. Each new oil-sands facility produces less GHG-intensive product and, ironically, it is this newer oil that would use the pipelines being protested.

If U.S. refineries – which consume heavy oil – were to take more production from the oil sands, it would most likely displace a similar crude oil with a GHG intensity in the same range. It would not replace the average U.S. barrel. If, for example, an oil-sands barrel replaced a Venezuelan Petrozuata barrel, there would be a net GHG

benefit as the Venezuelan barrel has a GHG intensity that is higher than the average oil-sands barrel – and significantly higher than oil from newer oil-sands projects.

Alberta’s climate policies – which are very stringent compared with other oil producing regions – create additional incentive to drive down oil-sands emissions. Alberta now has a 100MT cap on oil-sands emissions and a \$30/tonne carbon price that pushes all oil-sands facilities to perform at a level already achieved by high-performing facilities. There should be little doubt that these twin policies will decrease the carbon intensity of oil-sands facilities.

While in the past it might have made sense to protest pipelines and oil-sands projects for climate reasons, it doesn’t make sense any more.

Demand for oil and gas will remain strong for years to come; we are nowhere near peak oil supply; not all barrels of oil are created equal; new oil-sands production is cleaner than both existing oil-sands production and competing crudes; Canada is one of the only oil producing jurisdictions in the world to truly focus on reducing the GHG intensity of its barrels.

Efforts to keep the oil sands in the ground by stopping pipelines will actually increase global GHG emissions. At a minimum, oil sands will be replaced by heavy crudes with near the same carbon intensity and, since Canada has an emissions cap and incentives that other heavy oil suppliers do not, over time Canada is going to be lower carbon than the alternatives.

It is time to end the charade. Pipelines and oil-sands opposition are not a good proxy for climate action.

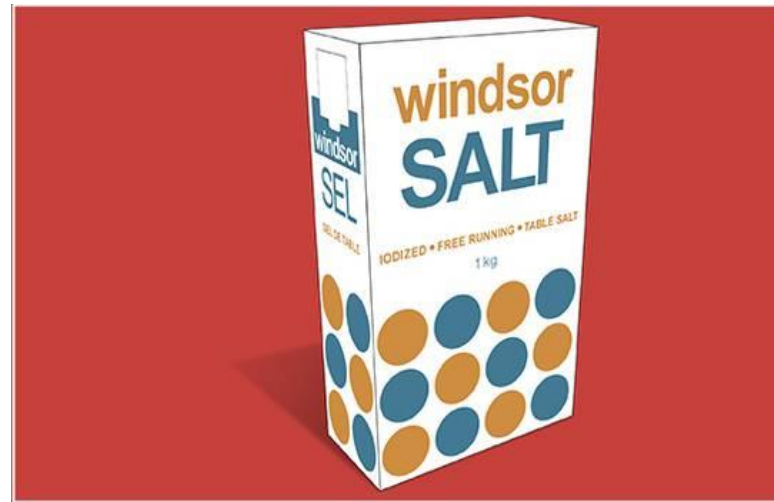
If we actually want to keep global temperatures below 2C above pre-industrial levels, we need to get beyond entrenched positions and focus on tackling climate change together.

As long as there is demand for oil, oil will be produced. And Canada’s oil sands oil is increasingly a better choice for climate. By far the biggest change we can all make to reduce GHG emissions is to focus on consumption and demand.

Martha Hall Findlay is the CEO of the Canada West Foundation; Trevor McLeod is the director of the Natural Resources Centre at the Canada West Foundation.

*Martha Hall Findlay and Trevor McLeod
Special to The Globe and Mail, March, 2017*

Connecting the dots



Windsor Salt’s packaging went through a variety of box shapes and more cluttered branding over the decades, but in 1962 graphic designer Chris Yaneff was enlisted to create its most iconic iteration.

The iconic packaging of Windsor Salt’s one-kilogram box helped make the product a bestseller in Canada. Nathalie Atkinson highlights the influential designer behind its memorable simple-yet-quirky look

To mark Canada 150, Globe Style’s Clearly Canadian series explores iconic examples of domestic design.

The iconic packaging of Windsor Salt’s one-kilogram box helped make the product a bestseller in Canada. Nathalie Atkinson highlights the influential designer behind its memorable simple-yet-quirky look

- Windsor Salt started in 1893 as the Canadian Salt Company and Windsor Salt Mine in Windsor, Ont. Its packaging went through a variety of box shapes and more cluttered branding over the decades, but in 1962 graphic designer Chris Yaneff was enlisted to create its most iconic iteration.
- Yaneff was an influential presence in Canada’s graphic design industry. The Ontario College of Art grad and former art director of the Financial Post founded his own agency in the late 1950s. He specialized in corporate identities and was

the designer behind the rebranding of Brewer's Retail in Ontario to the Beer Store.

- Among his other understated corporate identity work, Yaneff created the heavy open rectangle logo for Canada Trust in 1971. Another of his similarly memorable – though perhaps more unsettling – graphics is the perpetually smiling Conko the clown, the logo and mascot of the Conklin Shows travelling amusement company. It, too, is a masterpiece of a less-is-more approach to communication design, merely composed of dots, arcs, dashes and plus signs for eyes.
- The 1960s saw a boom of modern identity design and visual communication, mostly due to the hype and ubiquity of the logo for Canada's last big anniversary, the Expo 67 world's fair in Montreal.

- For Yaneff's early-'60s salt box design, the Windsor name is in modish lowercase Helvetica with "salt" in all caps. The lower carton is emblazoned with a grid of large bronze and blue dots. Another branded strip on the side below the retractable dispensing spout evokes a tooth-shaped castle parapet and that other famous Windsor, Windsor Castle, an hour west of London, England.
- The motif lasted nearly 40 years before the Pointe Claire, Que.-based company's marketing department decided to give it a makeover. Windsor recently refreshed its logo and product packaging again, adding a photograph of fresh produce to the package.

Nathalie Atkinson

Special to The Globe and Mail, February, 2017



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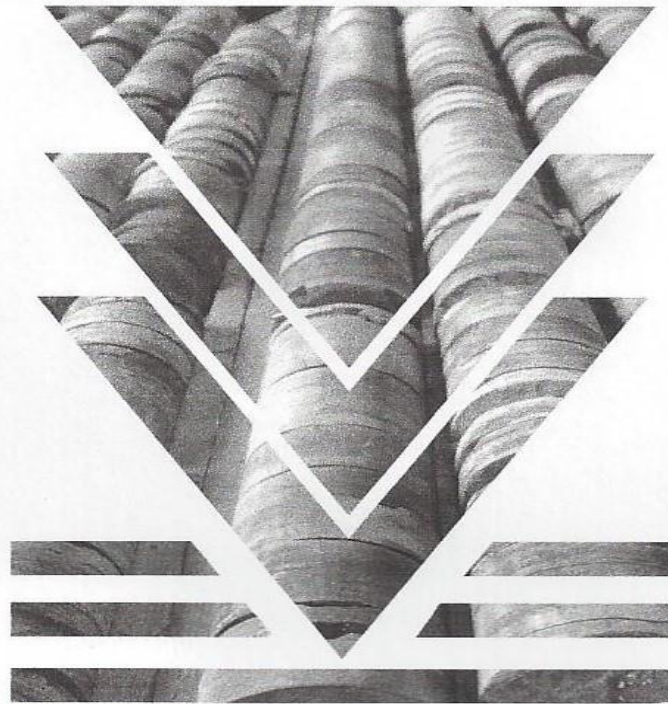
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Ontario Oil, Gas and Salt Resources Library

OGSR Library is the centre for information related to subsurface geology, petroleum resources, salt, and hydrocarbon storage in Ontario.

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2017 Upcoming Events

OPI Board of Directors Meeting
Friday, May 12, 2017
Boardroom at 555 Southdale Rd. E., London

Well Service BOP
May 8th – 11th, 2017
Ramada Inn, London

First Line BOP
May 12th – 15th, 2017
Ramada Inn, London

OPI Golf Tournament and 55th Annual Conference & Trade Show
May 24th – May 26th, 2017
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