



Anniversary
1966 - 2016

THE IPLOCA NEWSLETTER

MARCH 2016



50th Anniversary Convention

page 17

Letter from the President

page 4

News from Geneva

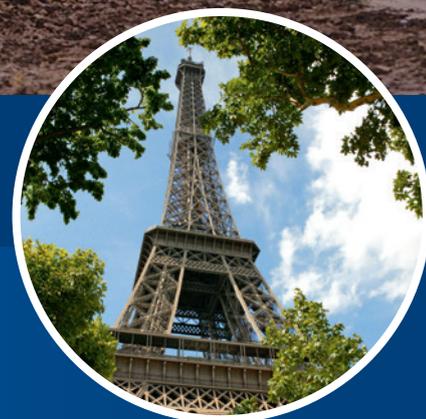
page 5

Member News

page 8

IPLOCA Awards

page 18



BENDING HISTORY



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POWER: The Maats bending machine program ranges from 16 to 60 inch. The robust and reliable Maats bending machines have the capacity to bend pipes up to 1 inch wall thickness x100 of the maximum loadable pipe-size. The Maats bending machines are the strongest available in the market.

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IPLOCA Mission

To provide value to members through a forum for sharing ideas, engaging the industry and its stakeholders, facilitating business opportunities and promoting the highest standards in the pipeline industry.

Contents

Letter from the President	4
News from Geneva	5
Sister Associations	5
Board Meeting Update	6
Member News	8
Health, Safety and the Environment	14
Regional Meetings	15
Membership Centre	15
Post-Singapore Convention Questionnaire	16
50th Anniversary Convention - Paris	17
IPLOCA Awards	18
New Technologies	19
Upcoming Events	20
50th Anniversary Presidents book	27

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IPLOCA © 2016

Cover Photo

APLNG Pipelines - Australia
Courtesy of CCC

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Letter from the President

We have now officially entered our 50th anniversary year and, as you will see in the following pages, some exciting projects have come to fruition to coincide with the celebrations of IPLOCA's 50 years at the forefront of the pipeline industry.

We are pleased to launch our freshly designed, mobile-responsive website, which has been reviewed and updated by the Secretariat team. All comments and ideas for additional content are welcome. Following the recommendations of the Client Engagement Committee, we have now added a new category of membership, Corresponding Member, which offers our clients (oil & gas owners and operators) the possibility of an active role in the association. The New Technologies Committee will be presenting the Award for Excellence in Project Execution for the first time during the convention in Paris. This will be given to an outstanding project, in recognition of a step change in both the company's satisfaction and a trade mark for the contractor's execution capacity.

As we enter 2016 we also have some important deadlines for you to keep in mind. Members' Health & Safety and Environmental Statistics are due right away - on 4 March 2016. The submission forms are available at www.iploca.com along with guidelines and translations in French, Russian and Spanish.

The Spring Plenary Session of the Novel Construction Initiative will take place from 31 March to 1 April in Geneva. This will be the last working session before the publication of the 4th edition of the best practices book: "The Road to Success".

Two regional meetings are scheduled to take place in April: one in Langfang, close to Beijing in conjunction with the China International Pipeline Exhibition and the other meeting in Moscow, Russian Federation. We will also be holding a special workshop on safety assessment efficiency in Geneva on 23 June. Further details will be posted soon on our website.

And last, but certainly not least, we are in the midst of making arrangements with the hotel and the ground agent for an unforgettable 50th anniversary convention in Paris. A number of surprises await us during this special week-long event. Please note that registration will open on 1 June, so make sure you register soon thereafter to ensure you have the best choice of tours.

Along with the convention come this year's awards. In addition to the newly introduced award, the 2016 IPLOCA Environmental Award and the Health & Safety Award will be presented. Further details and deadlines for submissions are on page 18.

If you have questions, comments or ideas regarding IPLOCA, please don't hesitate to contact me via the Secretariat.

Warm regards,

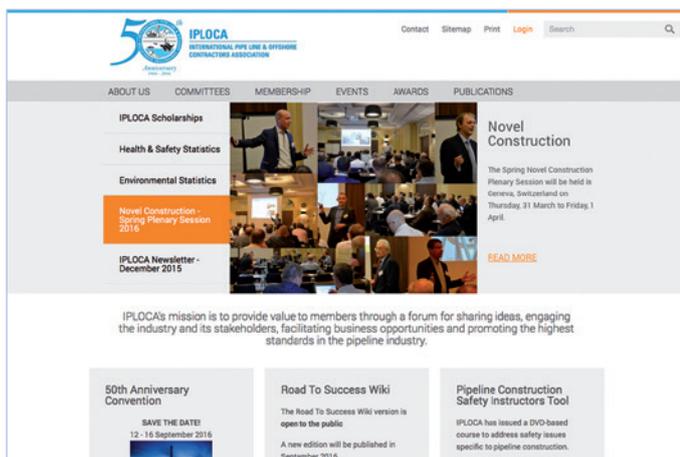
Atul Punj

IPLOCA President 2015-2016

News from Geneva

New Look, Mobile Responsive IPLOCA Website

As announced in December, we have now launched our newly designed website, which is mobile device user friendly and allows for intuitive and easy navigation. Take a look at www.iploca.com and let us know what you think.



Membership Certificates

Membership certificates were mailed out in January. If you are the designated IPLOCA Key Representative for your company and you have not yet received your certificate please contact sarah.junod@iploca.com.

HSE Statistics Due

The deadline for the submission of statistics is **4 March 2016** and it is a requirement of regular membership in the association to provide both your health & safety statistics and your environmental statistics, so if you have not yet submitted them, please do so right away!

IPLOCA Scholarship Programme

The Scholarship Committee is pleased to confirm that one week before the deadline, over 220 students had registered online for the scholarship programme and 57 completed their applications. Further details regarding the scholarships awarded will be published in the next newsletter.

Sister Associations

IPLOCA continues to support our Sister Associations during their annual conventions.

The World Federation of Pipe Line Industry Associations (WFPIA) is finalising the text of a Heads of Agreement to better define the guiding rules and the way forward for this important forum of interaction amongst these associations.



Sister Association representatives in Naples, Florida: from left to right, Kevin Barrett of PLCA, Neil Lane of PLCAC and Rob Darden of DCA with IPLOCA Executive Secretary, Juan Arzuaga.

DCA 55th Annual Convention

The Distribution Contractors Association (DCA)'s Annual Convention took place from 15 to 19 February 2016 in Naples, Florida. IPLOCA's Executive Secretary, Juan Arzuaga and his wife Alejandra attended the week's programme of events, which culminated in a festive and elegant evening of dinner and dance with the theme "Colours of the Sea".

PLCA (Pipe Line Contractors Association)'s 68th Annual Convention

Keeping on the move, Ruben Kuri, Jean Claude Van de Wiele, Juan Arzuaga and their respective wives Elena, Martine and Alejandra also attended the PLCA's 68th Annual Convention from 23 to 27 February 2016 in Scottsdale, Arizona. The members of the World Federation of Pipe Line Industry Associations met there to discuss subjects of common interest on 24 February.

PLCAC (Pipe Line Contractors Association of Canada)'s 62nd Annual Convention

PLCAC's 62nd Annual Convention will be taking place from 29 May to 2 June in the quaint city of Charlottetown (Canada's birthplace), Prince Edward Island.



The Board of Directors meeting at the Four Seasons Prague.

Board Meeting Update

The December 2015 meeting of the Board of Directors was held in the picturesque city of Prague in the Czech Republic. The following are highlights from that meeting.

HSE Committee

The following Key Performance Indicator objectives for 2020 were proposed: zero fatality & TRIR of less than 1. On the recommendation of the Board, the Committee will also look at lead indicators for the future, not just lag ones.

The committee has set a goal to reach 40 attendees at the next safety workshop, which is scheduled for 23 June on the theme of safety assessment efficiency. All directors were encouraged to send their HSE managers to the June workshop.

A few changes have been made to the electronic fillable forms for the statistics returns to make them easier to understand and to use. It was agreed to make the submission of environmental statistics an obligation of Regular Membership in 2017.

The safety content in the best practices book, 'The Road to Success' will be embellished as part of the 4th edition to be published in September 2016.

Client Engagement Committee

The newly revised By-laws, approved by the membership at the AGM in October in Singapore, take effect on 1 January, 2016 and include a new membership category, Corresponding Member. The procedure for inviting Corresponding Members and the package of documentation of interest to them was discussed and approved.

New Technologies Committee

The members of the Adjudication Committee for the newly launched, Excellence in Project Execution Award, were approved.

It was noted that there is a high level of participation at the Novel Construction sessions, at which five projects were presented in November. This is an opportunity to attract new members to IPLOCA.

The 4th edition of the best practices book, 'The Road to Success', is being prepared and will be published in electronic form, possibly as an app or an e-book. This edition will include new developments and updates on existing chapters.

The Novel Construction Spring Session is scheduled for 31 March to 1 April in Geneva and the committee would encourage Regular Members to send their specialists as they have been in the minority lately at these meetings.

Scholarship Committee

Applications opened on 4 October and a relatively small number of applicants had completed the application process compared to the number of those potentially interested. The deadline for applications is set as 26 February, 2016 for the coming academic year.

All board directors were asked to promote the scholarship programme throughout their companies, via intranet, internal newsletters, emailing and any other promotional campaigns. An email reminder was scheduled to be sent out to the wider membership in early January 2016.

Convention Location Committee

The outgoing Associate Members director, Marco Jannuzzi was specifically thanked for his work on this committee.

Adam Wynne Hughes, the Committee Chairman, reminded the Board of the general pattern to rotate the conventions around IPLOCA's geographic regions.

The 2017 convention will be held in Mexico City and discussions took place on where in Europe North West to hold the 2018 event. The decision on the exact location will be made at the next Board meeting in Seville.

Temporary By-laws Committee

Following the approval by the membership of the revised By-laws, the committee is now concentrating on reviewing the operational manuals created from the Aide Memoire.

Specifically the committee will develop new procedures to separate the Secretariat functions from the Board responsibilities and clarify the relevant roles.

Treasurer's Report

Harald Dresp was sincerely thanked for all his work as Treasurer over the years.

Jan Koop presented the 2015 forecast and the budget for 2016. The forecast was expected to balance out at the end of the year and to be close to CHF 30,000.

The budget for 2016 was unanimously approved by the Board. It has been based on the assumption that the East & Far East region is optimistic that it can attract more members, particularly from China.

Membership

- **Cryotek Eng Srl**, Italy was approved by the board as an Associate Member.

Name Changes

- **TKC Holding** to **TKC Industrial Holding**, Russia
- **TL Offshore** to **SapuraKencana TL Offshore Sdn Bhd**, Malaysia

Resignations

Resignations had been received from

- **A.Hak Industrial Services B.V.**, The Netherlands (they are keeping their Regular Membership for A.Hak Construction B.V.)
- **Bauhuis B.V.**, The Netherlands
- **Laney Directional Drilling**, U.S.A.
- **Socotherm**, Italy (has been fully incorporated into ShawCor)

Conventions

Paris 2016

Juan Arzuaga confirmed that arrangements for the 50th

anniversary convention were going ahead smoothly and that venues had been secured for all the main events.

He explained that the lottery for a car will not be possible in France due to local regulations. This is becoming more and more difficult to organise in every destination so an alternative solution should be discussed.

He also stressed the difficulties in setting up a meet & greet service as well as transfers back to the airport in Paris, due to the various airport terminals and train stations; hence, this service will not be offered in Paris.

Mexico 2017

Juan Arzuaga and Caroline Green, Membership & Convention Manager, had visited two hotels in Mexico City and were very pleased with the facilities. A final decision on which hotel to select was due to be made in January 2016. They also visited possible venues and researched some tour ideas. Initial preparations are all moving forward smoothly.

Regional Meetings

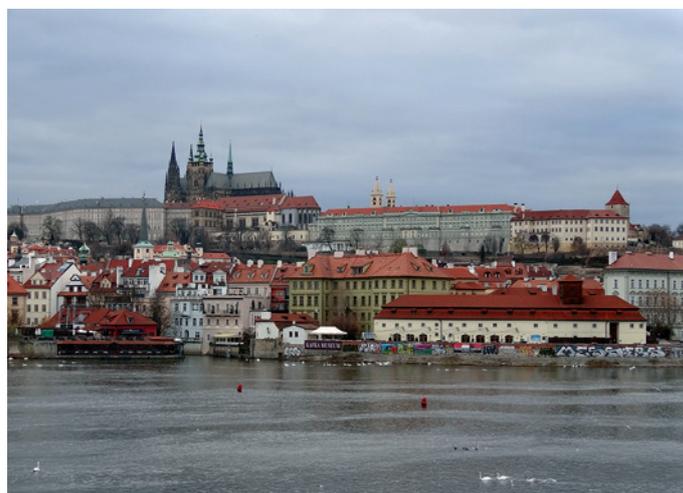
A regional meeting is being organised in Beijing by Ma Chunqing for 13 April 2016 and a Moscow regional meeting is scheduled for 26 April 2016, organised by Iosif Panchak.

There is a possibility of a meeting being organised in Parma, Italy, but the details are yet to be confirmed.

Next Board meeting

The March 2016 Board of Directors meeting will be held in Seville, Spain from 16 to 18 March.

The cultural programme during the Board Meeting in Prague included a walking tour of the old city, classical music concert, glasswork workshop for the ladies, and visit to the State Opera.



Member News

Cross Country Pipeline Supply Enters New Markets Through Key Acquisitions

Since 2015, Cross Country Pipeline Supply Co., Inc. has acquired the following businesses to provide a complete start-to-finish pipeline-solutions company:

- Power Associates International, Inc. (PAI) manufactures hydrostatic testing systems and components that are provided to a range of customers, including contractors, pipeline owners, and testing/maintenance firms.
- Sideline Specialty Equipment, LLC (SSE) is a provider of innovative equipment, solutions, and support for pipeline projects around the globe. SSE designs, builds, and acquires equipment to meet specific project needs, including specialised welding equipment and difficult-to-procure equipment.
- Nitrogen Services, LLC (N2) operates skid mounted mobile nitrogen generators that can easily be transported to a job site via truck, N2 is a provider of nitrogen generation and other integrity testing services to the industry.
- Stone Pump & Trench (Stone) is provider of innovative rental equipment for trench safety and pumping applications to contractors, municipalities, environmental, mining, and industrial customers.
- Pipeliners' Warehouse Inc. (PWI), is a provider of consumable pipeline construction supplies to midstream markets with a strong presence across the Gulf Coast.

With these acquisitions, Cross Country has 17 branches in the U.S. and Canada and continues to expand worldwide.

Michels Sets Records in 2015

New HDD Record: Michels utilised horizontal directional drilling (HDD) to drill beneath the Athabasca River and completed an HDD milestone on November 21, 2015 on



the Northern Courier Pipeline. The 42" crossing of 7,200 ft (2,195 m) was near Fort MacKay, about one hour north of Fort McMurray, Alberta. The 1.36-mile installation is a new record for Michels and the longest in North America for a pipe with a 42" diameter. Working 24 hours per day with two crews of 16 people per shift, the final pipe pull took 36 hours to complete. In addition to the HDD crew, Michels provided pipe support using 10 cranes, 5 side booms and 3 excavators to manage the pipe section that was a complex horizontal curve. The section reached 47 ft (14.3m) high before being pulled under the river at a designed depth of more than 230 ft (70m). The complexity and sheer size of the project was completed using two 1.2 million lbs. rigs on each side of the river for the pilot hole intersect and reaming operations. Michels' 750-ton Herrenknecht Pipe Thruster was used to assist during the installation.

Michels leads the world with the most Direct Pipe

installations: the corporation ended 2015 on a strong note by completing the most Direct Pipe installations of any single company in the world. Direct Pipe is a one-pass system for trenchless installations that combines a thruster with a steerable microtunneling machine. Michels completed its 11th and 12th installations on 11 December, in Toronto, Ontario, Canada. The latest installations were 1,300 ft of a 42" pipe and 823 ft of a 36" pipe.

Volvo Pipelayers Used from France to Belgium and also in Argentina.

Volvo rotating pipelayers was used on both sides of the border to allow gas to flow from France to Belgium for the first time. As well as responding to increasing demand for gas in Belgium's West Flanders region, the new pipeline will feed gas to north-west Europe. Located between Alveringem, near the French border and the port of Dunkirk, and Maldegem, east of Bruges in East Flanders, the existing infrastructure could no longer cope with growing demand from new housing and small and medium-sized enterprises starting up in the area. On the French side of the border, a Volvo PL4809D rotating pipelayer was used on the project by French pipeline specialist SPAC, a subsidiary of the Colas Group. The 36" diameter pipe runs for 74km and this joint operation enables the transmission of 8 billion cubic metres of natural gas between the two countries for the first time. Pipeline contractor A. Hak Leidingbouw, specialists in large diameter pipelines, worked on a 20km section using two Volvo PL4608 rotating pipelayers.

PL3005D pipelayers started work in October 2015 in Argentina on a pipe renewal project, scheduled to be completed in June this year, led by the Santa Fe-based contractor, Milicic S.A. which is a USD 20 million project



to replace a 66 km section of pipeline in central Argentina. Originally constructed in the 1960's, the pipeline stretches between the cities of Villa Mercedes in the province of San Luis and runs northeast to Río Cuarto, the second most important city in the province of Córdoba. Using a 12" pipe, this refined products pipeline will carry mixed ducts that will be used to transport different types of gas and oil. The trench will also serve as a conduit for utilities, such as fibre optic cable and other power lines.

Four Europipeline Equipment Performer GPL 980 Will Contribute to the TANAP Project

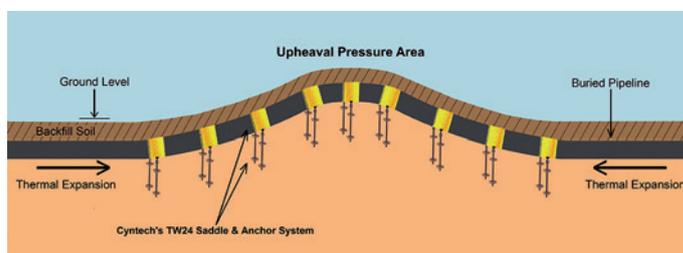
SICIM had the first four Europipeline Performer GPL 980s delivered to the region of Sivas located in central Anatolia (Italy), to contribute to the building of the TANAP project. They arrived in parts in two different open top containers for each model. The reassembling procedure, presented last year during the fall sessions of IPLOCA's Novel Construction Initiative, was very quick and contributed to a general saving of 80% of the usual costs of transportation compared to the average pipe-layers commonly used in the gas market. The TANAP Section N. 2 will be 2,450km long composed of tubes of 56" diameter. This project will bring gas to Europe through Azerbaijan, Georgia, Turkey,



Greece and Albania and is scheduled to be completed by the end of 2017. The quality and strength of the partnership between SICIM and Europipeline played a key role in the level of cooperation between the partners and in SICIM's contribution on the conceptual side regarding the design of the ultimate version of the Performer GPL 980. This pipelayer can guarantee a lifting capability of 98,000 kg, with a Caterpillar engine and Bosch Rexroth components. A further six Performer GPL 980s will soon be delivered to Turkey and, in the next months, many others will be involved in several SICIM construction sites, including the "SUR GAS Pipeline" a pipeline project going through Amazonia and Andes.

Cyntech's Pipeline Stress Mitigation

Cyntech announces the successful testing, release and implementation of the TW24 Pipeline Saddle. This patented specialty pipeline saddle is designed in widths of up to 600mm wide with superior strength and performance for pipeline stress mitigation. TransCanada PipeLines Limited has successfully installed Cyntech's TW24 wide saddle anchoring system on a number of their pipelines to control overbend stresses. When pipelines with high temperature differential (creating thermal stress) require overbends, thermal stress can be concentrated at the overbend. Where stronger soils are prevalent, expansion may not be an issue as the soil is restraining the pipeline, but in weak



soils that restraint is no longer there and the pipeline will tend to grow. The problem of expansion is concentrated at the pipeline's overbend. This thermal expansion can cause the pipeline to pop out of the ground, overstress, kink or even fail. The TW24 pipeline saddle is used in overbend situations to stabilise the pipeline so that the expansion stress does not displace the pipeline. This process ensures a more even distribution of stress along the pipeline so it remains safely in place. Pipeline side bend stress can also be effectively controlled.

The Role of ERCIYAS in TANAP, "The Pipeline Project of the Century"

Erciyas Steel Pipe Company, a member of BNE Consortium, has been awarded a total contract value of approximately 500 million USD (600 km/380 miles)



for the Trans-Anatolian Natural Gas Pipeline (TANAP), comprising SOCAR, BOTAS and BP. Monitored by WorleyParsons, Erciyas is responsible for manufacturing HSAW pipes of diameters of 48" and 56" according to required API standards. The entire pipe production, including external coating (3-layer PE) and internal lining (80µ Epoxy), is being conducted inside the same facility. In conformity with all international transportation rules, the transport of pipes from Erciyas' production facility in Duzce to TANAP's job site in Yozgat is being undertaken by GLOBER Logistics, an Erciyas Holding Company. As a result of outstanding performance during the production process, Erciyas Steel Pipe, along with the BNE Consortium, has successfully secured an additional order from TANAP.

Fluor Agrees to Acquire Stork Holding B.V., a Global Industrial Services Company

Fluor Corporation and Stork announced on 7 December, 2015 that Fluor had signed an agreement with UK-based private equity firm Arle Capital Partners to acquire 100 % of Stork Holding B.V., based in the Netherlands, for an investment of EUR 695 million (USD 755 million). Stork is a global provider of maintenance, modification and asset



integrity services associated with large existing industrial facilities in the oil and gas, chemicals, petrochemicals, industrial and power markets. Founded in 1827, Stork has built a powerful brand in the industry and has long-term relationships with a diverse range of blue chip customers. It has operations in Continental Europe, United Kingdom, the Middle East, Asia Pacific and the Americas. The acquisition of Stork is consistent with Fluor's goal to further enhance its integrated solutions capabilities.

Punj Lloyd-Limak JV Wins Major Pipeline Contract in Turkey

TANAP Doğalgaz İletim A.Ş. awarded the Lot 4 pipeline project to a joint venture between Punj Lloyd (India) and Limak Construction (Turkey). Lot 4 is a 48" diameter gas pipeline of 459 km. Punj Lloyd's scope of the present project (Lot 4) is the second phase of construction from the new Eskisehir Compressor station to the tie-in point of the Trans Adriatic Pipeline (TAP). The scope also includes 10 Block Valve Stations, Pigging facility (two within Compressor stations, two at pigging stations) and Tie-ins with Metering Stations. This is the second project for Punj Lloyd-Limak JV in Turkey. In laying the Baku-Tbilisi-Ceyhan pipeline, popularly known as the "Pipeline of the Century" in Turkey and Georgia, the Punj Lloyd-Limak JV was awarded the 'Best Contractor's Award'. Punj Lloyd was then the only Indian contractor to execute the transnational pipeline and even now they are the only Indian company to win a pipeline TANAP order. The timeframe for this project is 35 months.

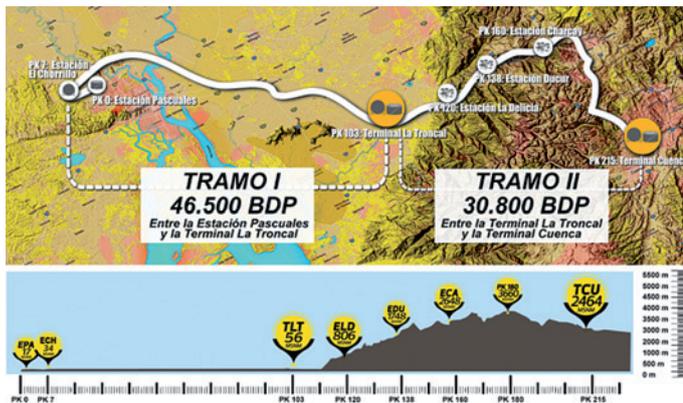
Caterpillar Collaborates with Pipeline Industry Leaders to Produce Safety Leadership Training Programme

Caterpillar, in collaboration with PipeLine Machinery International, Inc. (PLM) and a group of industry leading companies, presents the Pipeline Safety Leadership Programme, a first-of-its-kind training course produced specifically for pipeliners. With a focus on personal accountability for safety and incident prevention, the programme will support the industry as it shifts from traditional to world-class safety management. Joining Caterpillar in developing the programme vision, and funding the production were PLM and partnering companies PLH Group; TransCanada Pipelines Ltd.; Spectra Energy Transmission LLC; Welded Construction; Sheehan Pipeline Construction; Rockford Corporation; Strike, LLC; Quanta Services; U.S. Pipeline; and Enbridge Employee Services Canada Inc. The five-module programme is designed to foster safe work environments by helping leaders at all levels

understand and leverage the power of culture on safety performance. Emphasising engagement, effective communication and positive recognition as the building blocks of safety culture excellence, the course reveals the impact each leader has on employee attitudes, behaviours and beliefs.

Construtora Norberto Odebrecht and the Pascuales - Cuenca Multi-purpose (PCM) Pipeline

The construction of the Pascuales-Cuenca multi-purpose pipeline, awarded to Construtora Norberto Odebrecht S.A. by PetroEcuador in October 2013 is underway and startup is scheduled for May 2016. During the peak construction period, 5,000 workers were involved, accumulating a total of 13 million man hours. The scope of this PCM project includes the procurement of equipment and materials and the construction and startup of a pipeline of 215 km length which will also involve 5 pumping stations and 2 terminals. The aim of the project is to expand the fuel transportation system which will supply the provinces of the southern region of Ecuador: El Oro, Cañar, Azuay, Loja, Morona Santiago and Zamora Chinchipe and related areas.



The first portion of the pipeline is of 10" and follows the coast for 103 km, originating in the Guayas Province. It has a capacity of 45,500 BPD. This tranche goes from the Pascuales Terminal carrying diesel, super petrol and extra petrol and from the Chorrillo Terminal up to La Troncal Terminal with GLP. The second portion goes over the Andes range and consists of a pipeline of 112 km of 8". It includes 3 pumping stations (La Delicia, Ducur and Charcay) and goes through the Cañar and Azuay Provinces reaching heights of over 3,600 m above sea level. This second tranche ends at the Terminal located at Cuenca city which has a storage capacity of 30,800 barrels. Once the system is in operation this year, Ecuador will make savings over the next 20 years of almost USD 270 million in the maintenance and operation of railways, resulting in an immediate reduction of the CO₂ emissions of 2.700TM/year.



PipeSak® Buoyancy Control and PipePillo™ Pipeline Support Used on 1219mmOD Pipeline in Canada

PipeSak Pipeline Products was chosen this past summer to supply all the buoyancy control requirements for Union Gas' NPS48 Brantford to Kirkwall looping in Ontario, Canada. The project cut through many environmentally sensitive areas - including the African Lion Safari, which is an open terrain zoo. The PipeSak utilised for this project was the 6 compartment design with a filled capacity of 5670 kg. (PipeSak supplies weights for all pipe sizes up to 8160 kg for 1422 OD pipelines.). Since the area was extremely rocky, PipeSak's newest product, the PipePillo™ was also used through a narrow stretch of wooded, rocky swamp. PipePillos can be used to not only string and weld the pipe, but also as a permanent in-trench support – keeping the expensive pipeline off the rocky trench indefinitely. One other key advantage discovered while using PipePillos was its ability to offer additional structural support to the large diameter, thin walled pipeline - thereby helping to decrease the risk of ovality and denting.

Van Oord Offshore Completes Challenging Tetney Sea Line Replacement Project

In 2015 Van Oord Offshore successfully replaced a section of 40-year-old pipeline connecting a crude oil import terminal at Tetney, Lincolnshire, United Kingdom to a single point mooring buoy in the Humber Estuary. The replacement of the pipeline had to take place during a maintenance shutdown of the Humber Oil Refinery which lasted 65 days. Van Oord Offshore was responsible for the installation of 4.2km of the 36" buried pipeline, the design and installation of the Pipe Line End Manifold (PLEM), and the removal and re-installation of the Single Point Mooring (SPM). They also connected the old and new pipeline on the beach and removed a 380m section of the old pipeline and PLEM. Van Oord developed an innovative method to execute the work, in order to meet the logistical challenge of twice daily flooding of the total project site by



an up to 7m tidal range. In addition, access and transport to the beach was only allowed by water. A string barge, with 43 pipe strings of 100 m, was beached on the project site, with a firing line and launch ways on both the land and seaward side to support the pipe towards the seabed. After welding, each 100 m pipe section was pulled off the pontoon. To accommodate all personnel, a facilities barge was beached next to the string barge. Van Oord and its client also ensured that the beach was restored to its original natural state.

Arendal's Project Ramones II Norte: a Megastructure for National Geographic

The Mexican "Ramones II Norte" pipeline by Arendal, a member of the consortium "AOT Pipelines", was selected as a Megastructure by the National Geographic Channel. This project consisted of constructing a 452 km pipeline and two compressor stations in record time, beating adverse weather conditions and engineering challenges including scaling 2,000 m altitude in the mountains and over 300 crossings and special works. "Ramones II Norte" represented an investment of USD 1 billion dollars generating more than 7,000 direct jobs and 20,000 indirect jobs. Taking these elements into consideration, in addition to the environmental care programme, the importance of the job safety analysis, and accurate quality procedures, the project was privileged by National Geographic and for several months National Geographic filmed through the 4 spreads in which the project was divided. On January 19, 2016 the 60 minutes "Ramones II Norte" film premiered in Mexico and via streaming in Latin America.

Erciyas Reaches the Highest Annual Line Pipe Production Capacity in the EMENA Region.

Erciyas Holding, already producing 35 % of TANAP pipes in the BNE consortium, acquired a 51 % stake in Özbal Steel Pipe (OSP) at the end of 2015. OSP is located in

Mersin-Turkey in a 42,000 m² total production area. OSP has the capability of producing pipes ranging from 6" to 100", with coatings of 3L PE, enamel or epoxy, ranging from 1/2" to 100" and linings of epoxy and concrete. By harbouring two steel pipe production plants, one located in Duzce (Erciyas Steel Pipe) and another at the Mediterranean coast (Özbal Steel Pipe), Erciyas Holding has reached the highest annual line pipe production capacity in the EMENA region, with a total of 600.000 ton.

Saipem Awarded Installation Contract for Oil Field on Norwegian Continental Shelf

Statoil, on behalf of the Johan Sverdrup partners, has awarded Saipem an installation contract for the Johan Sverdrup Export Pipelines Project. The Johan Sverdrup field is located on the Utsira Height in the North Sea, 155 km west of Stavanger, and is one of the five biggest oil fields on the Norwegian continental shelf, with expected reserves of between 1.7–3.0 billion barrels of oil equivalent. Saipem will be responsible for the installation of a 156 km 18" gas export pipeline for the Kårstø gas terminal, as well as approximately 282 km 36" oil export pipeline (depending on final routing) for the Mongstad terminal. Work on the project, which is scheduled to start in Spring 2018, will be carried out by Saipem's flagship, the ultra-deep water last generation pipe-layer CastorOne, which will be undertaking operations in the North Sea for the first time. The Johan Sverdrup partnership comprises the operator Statoil, Lundin Norway, Petoro, Det norske oljeselskap and Maersk Oil.



Vermeer's HDD Circuit™ Designed to Expand the Number of Trained HDD Operators

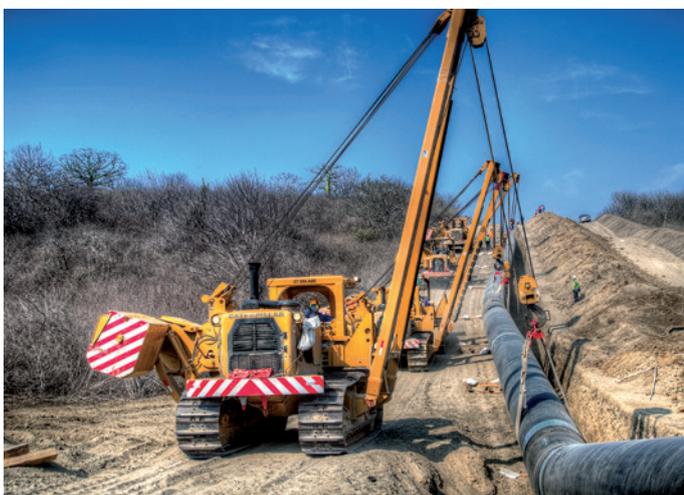
The shortage of qualified drill operators is a common challenge within the pipeline industry. As a response, Vermeer has developed HDD Circuit™ - an intensive horizontal directional drill (HDD) operator training programme. The HDD Circuit training programme is a tuition-based, two-week instructor-led programme that provides a mix of classroom time with hands-on experience in a small-group learning environment for contractors' employees. The curriculum covers all aspects of drill operation including HDD safety, jobsite evaluation and setup, drill operation



best practices, underground utility locating and potholing best practices, drilling fluid mixing and testing, proper bore and pullback techniques including the development of a bore plan, as well as basic drill maintenance and inspection. The goal of the training course is for each student who successfully completes the programme to have the skills to be a productive drill operator or crew member.

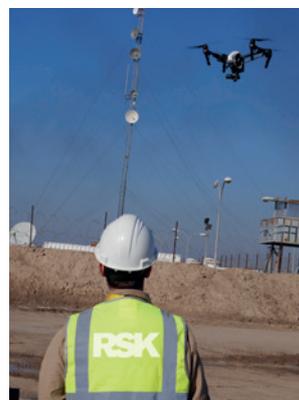
Worldwide Group Provides Equipment to Odebrecht in Ecuador

Worldwide Group supplied Odebrecht with equipment and operators for the La Esperanza water pipeline project in Ecuador. This 48" pipeline runs 100 km (62 miles) and will transport water from La Esperanza Dam to the refinery at El Aromo plant, close to Manta town. The contract called for 65 pieces of pipeline specialty equipment, including pipelayers, pipe bending machines, welder tractors, pipe carriers and pipeline accessories all from the SUPERIOR brand, as well as pipeline ancillary equipment such as excavators. In addition to heavy equipment, Worldwide Group logistical capabilities allowed the company to provide trained operators, as well as on-site equipment delivery and maintenance. The project lasted 21 months, from April 2014 to January 2016.



Technip Awarded Fabrication and Installation Contracts by Statoil for Johan Sverdrup and Oseberg Vestflanken

Leveraging its unique subsea integrated approach, Technip was awarded by Statoil ASA two lump sum contracts for infield pipeline construction for the Johan Sverdrup Development and the Oseberg Vestflanken 2 projects. The Johan Sverdrup field is one of the largest oil fields in the North Sea and was discovered late in 2011. The first development phase is targeted to be on-stream in 2019. The Oseberg Vestflanken 2 project is a development of the oil and gas structures Alfa, Gamma and Kappa, located approximately 8 km northwest of the Oseberg field centre. The contracts awarded to Technip cover fabrication and installation of 29 km of plastic lined 16" water injection flowlines for Johan Sverdrup. They also cover fabrication and installation of 7.5 km of 14" production pipeline and 9 km of 10" gas injection pipeline for Oseberg Vestflanken 2. While both projects will be executed by Technip's operating centre in Lysaker, Norway, the Group will leverage its unique subsea integrated approach from fabrication to installation. The flowlines will be welded and fabricated at the Technip spoolbase in Orkanger, Norway, and installation will be carried out by Technip's state-of-the-art reel-lay vessel Deep Energy, during the second half of 2017.



RSK Group Unmanned Aerial Surveys Take off in Southern Iraq

RSK Group Plc, the UK's largest privately owned environmental consultancy, has taken to the skies to complete its first aerial survey in southern Iraq using an Unmanned Aerial Vehicle. This is a first-of-a-kind service, of particular use for oil company clients in Iraq, and enables safer and more cost effective mapping and surveying of projects. Using unmanned aerial drones is the latest tool in RSK's resource portfolio, enabling it to offer engineering, science and technical support services to a wide range of clients including multinational oil and gas companies and leading international consultants. The key benefits of UAV technology are that it reduces the risk to staff by limiting the need to work at height, often in dangerous and difficult to access locations, enables improved inspection techniques, is quick to deploy and very cost-effective. This is because it can safely survey live assets such as flare stacks and thus prevent costly shutdowns. RSK is planning to bring in new task specific equipment for jobs such as flare stack inspection, infrastructure assessments and site surveying.

Health, Safety and the Environment



We welcome this information also from our Associate Members who have field construction activities. The returns should cover pipeline construction sites or offshore operations and all infrastructure-related projects. The deadline to submit your 2015 Health & Safety and Environmental Statistics Returns is **4 March 2016**. The online forms, along with guidelines and translations in French, Russian and Spanish, are available at www.iploca.com.

So if you are a Regular Member and you have not yet sent in your statistics, please do so immediately. Your returns are confidential documents and are not shown or passed on to any third party, other than the HSE Committee working within the IPLOCA Office in order to produce the annual statistics reports.

NOTE: Submission of the Environmental Statistics Return is now also a requirement for all Regular Members.

Please remember that, as determined by the Board of Directors, Regular Members whose companies do not submit their 2015 health & safety statistics will not be allowed to attend the upcoming 50th anniversary convention.

Health & Safety and Environmental Statistics Required of all Regular Members

As a condition of membership, Regular Members are required to submit their annual health & safety and environmental statistics to IPLOCA, such that aggregate statistics for the industry can be collected and monitored.

2016 Safety Workshop topic: "Safety Assessment Efficiency"

Thursday, 23 June, 2016 in Geneva, Switzerland

How is safety assessed? How efficient is the assessment of safety? IPLOCA's HSE Committee has scheduled a one day workshop in Geneva on Thursday, 23 June to engage HSE managers in this discussion.

A detailed agenda is currently being developed and more information will be posted on www.iploca.com/hseworkshop. Attendance at the workshop is a benefit of membership, and as such it is free of charge. However registration is required.

We look forward to welcoming you in Geneva for a productive session to discuss ways to continue preventing incidents in our industry.

HSE Key Performance Indicator (KPI) Objectives

Improving safety in the pipeline industry, and above all, eliminating fatalities is a priority. To reach these objectives, the use of KPIs is paramount.

The HSE Committee has set the following ambitious KPI objectives to be reached by 2020:

- Total Recordable Incident Rate (TRIR), per million hours, of below 1
- Zero fatalities



Regional Meetings

East & Far East in Langfang, P.R. China

Our Regular Member, China Petroleum Pipeline Bureau is organising a regional meeting for the East and Far East at the Langfang International Hotel, Langfang, on 13 April. Langfang is situated in Hebei province, approximately 56 km south-east of Beijing.

IPLOCA President and Director for East and Far East Atul Punj, Director for East and Far East Ma Chunqing, Director-at-Large Jim Frith, and Executive Secretary Juan Arzuaga will be on site to greet attendees and answer questions. Attendees will have the opportunity to listen to local knowledgeable speakers from the industry and meet

members and guests from the region. Chinese/English interpretation will be available onsite. The agenda will also include a visit to the China International Pipeline Exhibition and Forum on 12 April, in the Langfang International Convention Centre. Further information regarding the exhibition and forum can be found on: en.pipechina.com.cn.

The regional meeting agenda and further details regarding the presentations are available on the IPLOCA website.

Moscow, Russian Federation

A regional meeting will also be held in Moscow, Russian Federation on **26 April**, organised by Director for Europe Eastern, Iosif Panchak. Please refer to our website for details regarding this meeting.

Membership Centre

New Associate Member



Cryotek Eng Srl has been in the market since the 1960s with a wide range of gas equipment and innovative plant solutions, particularly for gas pipe networks, sea environments and naval shipyards. The company's specialised engineering team supplies different leading-edge technologies to onshore and offshore oil & gas companies around the world. Cryotek provides specific know-how gained in projects in the most challenging industrial environments and international competitive markets. The group aims to answer all customer requirements with either standard products or special projects, also providing installation and technical assistance.

Cryotek's philosophy is to invest in research in order to achieve the most innovative technologies. A very broad and long experience bestows Cryotek a leading role in gas conditioning and control, ensuring high-quality standards are met. The company also acts as a main contractor with significant participation in a variety of activities for pipeline projects and offshore structures. Cryotek has implemented specialised gas control systems during the construction and installation phases of important projects, such as with SAIPEM in China and the Netherlands and Enel research in Italy.

Cryotek Eng Srl

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cryotek@cryotek.it
www.cryotek.it

New Membership Category

The current challenging environment created by low oil prices is encouraging all players in the industry to work more closely together to come up with common solutions for a constructive way forward.

At the Annual General Meeting held during our 49th Convention in Singapore a new category of membership, Corresponding Member, was introduced and approved to invite oil & gas onshore and offshore owners and/or operators who have an interest in the work of IPLOCA to join the association.

Annual membership for Corresponding Members is free of charge and allows companies to benefit from a whole range of technical guidance and briefings produced by IPLOCA. Representatives of such members are invited to participate in workshops, regional meetings and to register to attend our Annual Convention, giving access to the top management of contractors and suppliers to leading pipeline companies. For further information on the benefits of Corresponding Membership, please refer to www.iploca.com/membership. Should you have any questions regarding this new category, please contact the Executive Secretary, Juan Arzuaga on juan.arzuaga@iploca.com.



Post-Singapore Convention Questionnaire

We would like to thank all Singapore Convention attendees who kindly took the time to respond to our post-event questionnaire; nearly 30% of attendees responded, 10% more than last year. We were very pleased to hear views from many of the spouses this time.

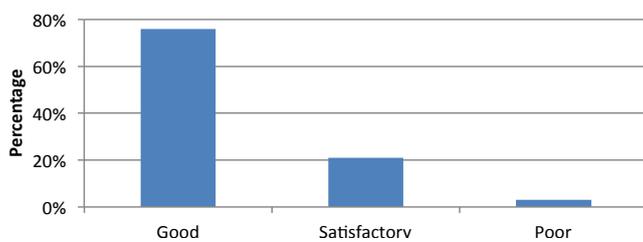
Some key findings from the questionnaire are shown below. The **tour programme** was ranked as good by 60% of respondents and 32% rated the tours as satisfactory. The overall **social programme** was very highly ranked

with nearly 80% ranking it as good. **Business networking** remains the most important **reason** respondents gave for attending the convention, followed by the opportunity to meet up with friends. New this year, the convention **mobile app** was downloaded by nearly 60% of respondents, and 75% of those who used it rated the ease of use and content as good.

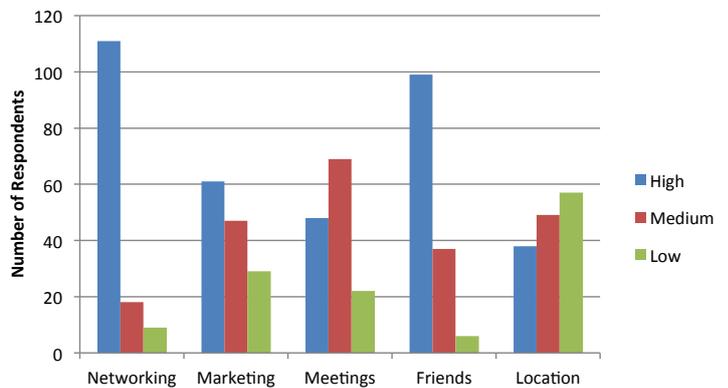
When asked about **speaker presentations** for the next convention, topics were ranked as follows:

- 1 Future large projects
- 2 New technologies
- 3 Market trends

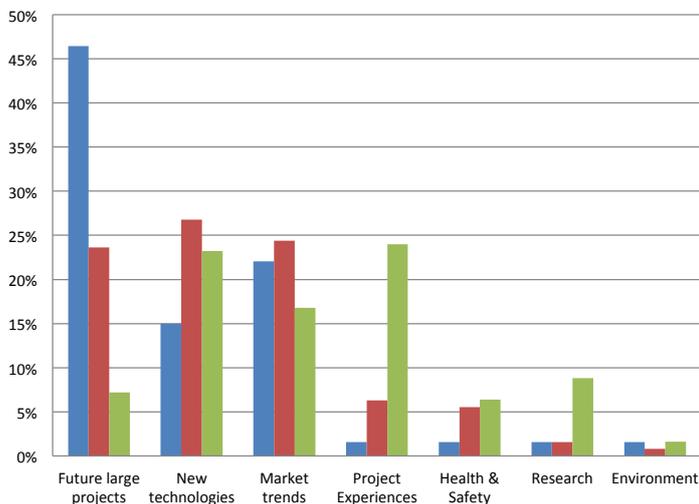
Mobile App - Ease of Use & Content



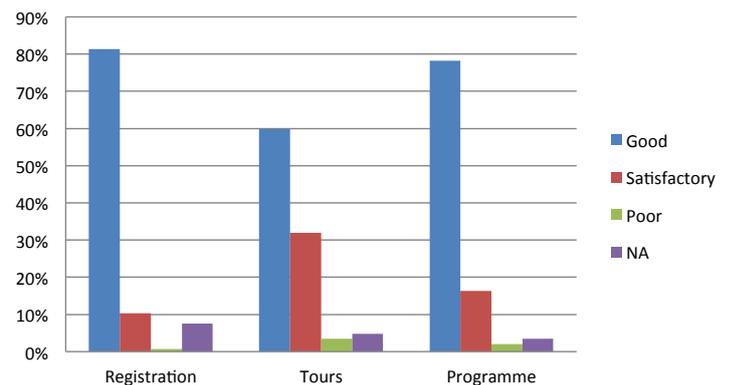
Reasons for Attending the Convention



Presentation Topic Preferences



Organisation of the Convention



50th Anniversary Convention - Paris

IPLOCA's 50th Annual Convention will take place from 12 to 16 September at Le Méridien Etoile, Paris. Please save the dates in your diaries for this special anniversary event.

The five day programme will include business meetings and technical presentations during the Open General Meetings, three days of tours and social events throughout the week. Special venues have been reserved for a number of the social functions, to celebrate our 50th birthday in style!

The convention brochure will be mailed out in May, and **online registration opens on 1 June**. Make sure you reserve early to ensure you have the best choice of tours.

Following the positive feedback we received at the Singapore convention, a smartphone application will, once again, be available in Paris.

Call for Speakers



During the Open General Meetings on Thursday and Friday there is an opportunity to present innovative and practical ideas that stimulate discussion and address topics such as manpower issues, training, safety and the environment.

Presentations that are particularly appreciated cover future large projects, new technologies and shared experiences of projects undertaken. IPLOCA is calling for speakers from members and non-members to submit their abstracts before **Thursday, 10 March 2016**.

Proposals should be well researched and focused on onshore and offshore pipelines and their construction, or be of broader interest to the pipeline industry. For further information and details, please refer to the Call for Speakers page on www.iploca.com or contact Caroline Caravellas, caroline.caravellas@iploca.com.



IPLOCA Awards

to be presented in Paris

Three IPLOCA Awards will be presented during the Convention in Paris. Please note that the deadlines for submissions are coming up in May, so don't miss this opportunity to give your projects profile:

2016 IPLOCA Health & Safety Award sponsored by Chevron Deadline: 6 May

The Health and Safety Award is presented each year in recognition of members' initiatives, all of which are aimed at improving the health and safety of the pipeline industry such as:

- A unique innovation or initiative to avoid incidents
- A new and well-defined system, procedure or practice enhancing safety
- Implementation of lessons learned

2016 IPLOCA Environmental Award sponsored by Shell Deadline: 13 May

The biennial Environmental Award was introduced in 2004 and is in recognition of members' initiatives, all of which are aimed at reducing the impact of pipeline construction on the environment, such as:

- Reduction of greenhouse gases
- Impact assessment and public consultation
- Energy use and efficiency
- Waste management and reduction
- Spill response preparedness
- Water usage and preservation

- Soil and ground restoration
- Archaeology
- Flora and fauna



NEW: 2016 IPLOCA Excellence in Project Execution Award Deadline: 20 May

Introduced on the occasion of IPLOCA's 50th anniversary, the Excellence in Project Execution Award will be presented in recognition of an outstanding project execution in onshore or offshore pipeline, or facilities construction by virtue of:

- Excellent client relationship/partnership beyond the expectations and/or contractual obligations
- Specific technology or engineering developed to either significantly reduce the cost of construction, or minimise the impact of the project on the environment, or to the local community, or for improvement in safety
- Outstanding response to unexpected difficulties faced during the execution of the project
- A remarkable or revised construction practice

For more information on these awards, such as guidelines, entry forms and details on previous winning entries, please refer to the Awards page on www.iploca.com/awards.

Please note that all entries should be focused on the pipeline industry and related work and are required to comply with the guidelines, including submission in the appropriate format, not exceeding the maximum number of pages and within the specified time frame. Submissions not fully complying will be rejected.

We look forward to hearing about your successful initiatives. Please contact Sarah Junod, sarah.junod@iploca.com, if you have any questions.





Novel Construction Spring Plenary Session

The Spring plenary session of the Novel Construction Initiative of the New Technologies Committee is coming up on 31 March and 1 April 2016.

It will be held in Geneva at the Crowne Plaza Hotel. The agenda and registration links are available at www.iploca.com/novelplenarysession.

These sessions serve as an open forum to all companies to present the newest developments of our industry and are an opportunity for the steering groups to meet and discuss the deliverables of each particular group.

If you are interested in presenting any new or innovative developments, please do not hesitate to contact novel@iploca.com or juan.arzuaga@iploca.com.



4th edition of "The Road to Success"

This Spring session is the last opportunity for the steering groups to get together to finalise the new chapters of the 4th edition of the best practices book, "The Road to Success". Should you wish to contribute to these working groups for future chapters, please contact the appropriate group leader. We look forward to your active participation in these sessions.

Workgroup	Leader (Company)	Email
Planning & Design	Criss Shipman (G.I.E.)	cshipman@gie.com
Earthworks & Crossings	Paul Andrews (Fluor)	paul.i.andrews@fluor.com
Welding & NDT & Testing	Jan Van Der Ent (Applus RTD)	jan.vanderent@applusrtd.com
Future Trends & Innovation	Zuhair Haddad (C.C.C.)	zuhair@ccc.gr
Coatings	David Jackson (PIH)	davej101@mail.com
Environment	Sue Sljivic (RSK)	ssljivic@rsk.co.uk
Logistics	Bruno Pomaré (Spiecapag)	bruno.pomare@spiecapag.com
Pre-commissioning	Vincenzo Calabria (SICIM)	v.calabria@sicim.eu
Bending	Geert Dieperink (Maats)	dieperink@maats.com
Health & Safety	Alan Gauthiez (Spiecapag)	alan.gauthiez@spiecapag.com

Upcoming Events

IPLOCA Board Meeting (Board Members only)
16-18 March



PIG - The Pipeline Industries Guild Dinner
8 March - London, U.K.
www.pipeguild.com

Pipeline Opportunities Conference
22 March - Houston, Texas, U.S.A.
www.pipeline-opportunities.com

IPLOCA HSE Committee Meeting
(HSE Committee Members only)
30 March - Geneva, Switzerland



IPLOCA Novel Construction Initiative Spring Session
31 March - 1 April - Geneva, Switzerland



IPLOCA East & Far East Regional Meeting
13 April - Langfang, P.R. China



Interpipe 2016 - China International Pipeline Exhibition
13 April - Beijing, P.R. China
en.pipechina.com.cn

Hannover Messe
25-29 April - Hannover, Germany
www.hannovermesse.de

IPLOCA Regional Meeting for Europe Eastern
26 April - Moscow, Russian Federation



Pipeline Transport
28 April - Moscow, Russian Federation
www.rpi-conferences.com/en

Offshore Technology Conference
2-5 May - Houston, TX, U.S.A.
2016.otcnet.org

IPLOCA Board Meeting (Board Members only)
18-20 May



Offshore Upstream Development in Russia and CIS
20 May - Moscow, Russian Federation
www.rpi-conferences.com/en/upstream-development

11th Pipeline Technology Conference
23-25 May - Berlin, Germany
www.pipeline-conference.com

PLCAC - Pipeline Contractors Association of Canada - 62nd Annual Convention
29 May - 2 June - Charlottetown, PEI, Canada
www.pipeline.ca

IPLOCA HSE Committee Meeting
(HSE Committee Members only)
22 June - Geneva, Switzerland



IPLOCA Workshop on "Safety Assessment Efficiency"
23 June - Geneva, Switzerland



50th IPLOCA Annual Convention
12-16 September - Paris, France



Pipeline & Energy Expo (ex Tulsa Pipeline Expo)
19-21 September - Tulsa, OK, U.S.A.
pipelineenergyexpo.com

APGA - Australian Pipelines & Gas Association - Convention & Exhibition
8-11 October - Perth, Australia
www.apga.org.au

IPLOCA HSE Committee Meeting
(HSE Committee Members only)
25 October



IPLOCA Novel Construction Initiative Fall Session
26-27 October



Other Important IPLOCA Dates

Health & Safety and Environmental Statistics
4 March - Deadline for submissions

IPLOCA 50th Anniversary Convention - Call for Speakers
4 March - Deadline for submissions

Member News for IPLOCA June Newsletter
15 April - Deadline for submissions
caroline.caravellas@iploca.com

2016 IPLOCA Health & Safety Award sponsored by Chevron
6 May - Deadline for submissions

2016 IPLOCA Environmental Award sponsored by Shell
13 May - Deadline for submissions

2016 IPLOCA Excellence in Project Execution Award
20 May - Deadline for submissions

IPLOCA Annual Convention
1 June - Registration opens

Member News for IPLOCA September Newsletter
15 July - Deadline for submissions
caroline.caravellas@iploca.com

50th Anniversary Presidents Book



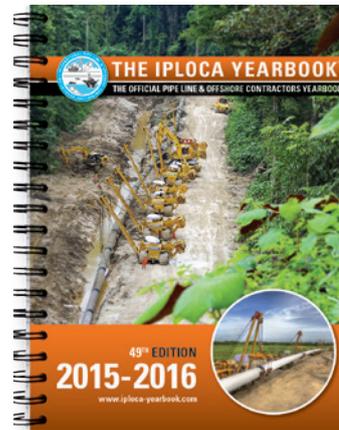
Significant progress has been made by the Secretariat and Gus Meijer, former Vice President of CRC-Evans, on the preparation of a 50th anniversary book to honour the commitment, energy and dedication of IPLOCA's past presidents and board directors.

The book will include copies of the drawings offered to past presidents by CRC-Evans from 1983 onwards, and special drawings have been created for the early presidents who pre-dated this custom. For each presidential year, a selection of the decisions recorded in the IPLOCA Board of Directors Minutes has been made to show the evolution of our association.

Sincere thanks go to CRC-Evans, Gus Meijer and his son Maarten, our publisher, Pedemex and the artists, Ronald Damen and Jan Ernst Douma for their time, energy and support in preparing this souvenir book.



Gus Meijer at work, with a helping hand from his wife, Lies.



The IPLOCA Yearbook is available in hardcopy and also available on your mobile phone at mobile.iploca-yearbook.com

IPLOCA Media Partners

Look out for the spread IPLOCA 50th anniversary supplements and articles in our media partners publications.

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IPLOCA Board of Directors

2015-2016



Left to right front row: Jan Koop, Rubén Kuri, Atul Punj, Andrew Ball, Jean Claude Van de Wiele, Juan Arzuaga. **Second row:** Jim Frith, Mesut Sahin, Haldun Iyidil, Georges Hage, Bruno Maerten, Marco Jannuzzi (retired), Ma Chunqing. **Third row:** John Tikkanen, Iosif Panchak, Doug Evans, Adam Wynne Hughes, Wilhelm Maats, Oliviero Corvi. **Fourth row:** Ebbo Laenge, Steve Sumner, Larry Bolander, Scot Fluharty, Doug Fabick, Najib Khoury, Bruno Guy de Chamisso.

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