



# THE IPLOCA NEWSLETTER

MARCH 2017



**Annual Convention - Mexico City**

page 19



**Letter from the President** page 4

**News from Geneva** page 5

**Member News** page 8

**IPLOCA Awards** page 18

# BENDING HISTORY



## This is what experience looks like

**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

<b>Letter from the President</b>	<b>4</b>
<b>News from Geneva</b>	<b>5</b>
<b>Sister Associations</b>	<b>5</b>
<b>Board Meeting Update</b>	<b>6</b>
<b>Member News</b>	<b>8</b>
<b>New Technologies</b>	<b>15</b>
<b>Membership Centre</b>	<b>16</b>
<b>Health, Safety and the Environment</b>	<b>16</b>
<b>Regional Meetings</b>	<b>17</b>
<b>IPLOCA Awards</b>	<b>18</b>
<b>51<sup>st</sup> Annual Convention - Mexico City</b>	<b>19</b>
<b>Upcoming Events</b>	<b>20</b>
<b>IPLOCA Yearbook</b>	<b>21</b>
<b>IPLOCA Board of Directors</b>	<b>22</b>

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TANAP - Turkey

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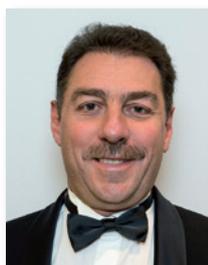
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## Letter from the President

**Eliminating fatalities in our industry is a priority and the Board of Directors has recently approved the ambitious long term KPI objectives set by the HSE Committee for 2020, including zero fatalities. Using the HSE Statistics submitted by our members we are able to report aggregate statistics for the industry. If you haven't already done so, you should submit your 2016 data right away.**

Since submission of Environmental Statistics has, along with Health & Safety, become an obligation of Regular membership, the Committee decided to merge the two statistics forms. This combined, online, fillable form is available at [www.iploca.com](http://www.iploca.com) along with guidelines and translations to assist you.

We are delighted to announce that - as a benefit of membership - our members have now received the 4<sup>th</sup> edition of The Road to Success in the form of a mobile app. During the Spring plenary session of the Novel Construction Initiative, taking place from 5 to 6 April, the work groups will meet to continue editing and adding to the content of this industry reference document.

Regional meetings are being planned this year, one of which will take place in Berlin around the dates of the Pipeline Technology Conference (2 to 4 May). More details regarding this and other regional meetings may be found on the IPLOCA website and will be emailed to company representatives in the relevant regions.

Arrangements for our Mexico City Convention are already in full swing. Early January, I joined members of the Secretariat staff, for a series of visits to finalise the convention programme. At our next board meeting at the end of March, we will be selecting the speakers for the convention and have already received a good number of interesting abstracts. You will find more details about the convention on page 19 of this newsletter. Be sure to block the dates in your diary and note that registration will open on 1 June.

As is our tradition, the winners of the IPLOCA awards will be announced during the convention. These include the IPLOCA Health & Safety Award sponsored by Chevron, the IPLOCA Corporate Social Responsibility Award sponsored by Total and the IPLOCA New Technologies Award sponsored by BP. Further details and deadlines for submissions are on page 18.

Once again, we are pleased with the response to our scholarship programme - close to 200 applications were received by the end of January deadline and the selection process undertaken by Scholarship Management Services is underway.

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

Best regards,

A handwritten signature in blue ink, appearing to read 'Rubén Kuri', with a stylized flourish at the end.

**Rubén Kuri**

IPLOCA President 2016-2017

# News from Geneva

## 50<sup>th</sup> Anniversary Presidents Book



Copies of the Presidents Book are still available for those who did not receive one by post or when attending the 50<sup>th</sup> Anniversary Convention. This limited edition book was published with the support of CRC-Evans and Pedemex

and is dedicated to IPLOCA's past presidents, executive secretaries and directors of the board.

Please contact [caroline.caravellas@iploca.com](mailto:caroline.caravellas@iploca.com) or any member of the IPLOCA Secretariat should you want a copy.

## 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 the certificate please contact Sarah Junod ([sarah.junod@iploca.com](mailto:sarah.junod@iploca.com)).

## Health, Safety and Environmental Statistics Due

The deadline for the submission of statistics is 10 March 2017. It is a requirement of regular membership in the association to provide HSE Statistics, so if you have not yet submitted yours, please do so right away! Further details are available on page 16.

## Sister Associations

IPLOCA maintains a close relationship with its Sister Associations and where possible representatives from IPLOCA attend their annual conventions.



## Pipe Line Contractors Association's 69<sup>th</sup> Annual Convention

IPLOCA President, Rubén Kuri, IPLOCA Executive Secretary, Juan Arzuaga and their respective wives Elena and Alejandra attended PLCA's 69<sup>th</sup> Annual Convention from 14 to 18 February 2017 in Scottsdale, Arizona. The members of the World Federation of Pipe Line Industry Associations met there to discuss subjects of common interest on 15 February.

## DCA Distribution Contractors Association's 56<sup>th</sup> Annual Convention

DCA's Annual Convention was held from 6 to 11 February in Grand Wailea, Maui, Hawaii, but due to other commitments IPLOCA was unable to be represented.



## Pipeline Industries Guild's 60<sup>th</sup> Annual Dinner

IPLOCA Executive Secretary, Juan Arzuaga, has confirmed his attendance at the PIG's annual dinner, which gathers the most important companies of the pipeline business in the U.K. and is taking place on 14 March in London, U.K.



IPLOCA President Rubén Kuri and IPLOCA Executive Secretary Juan Azuaga at the PLCA's 69<sup>th</sup> Annual Convention.



## Pipe Line Contractors Association of Canada's 63<sup>rd</sup> Annual Convention

PLCAC's Annual Convention will be taking place from 14 to 18 May in Banff, Alberta, Canada, and IPLOCA Executive Secretary, Juan Arzuaga and his wife, Alejandra, will be participating.

# Board Meeting Update

## Shanghai

The 2016-2017 Board of Directors held its December meeting in Shanghai, China. The following are highlights from that meeting.



### HSE Committee

Since Regular Members are now required to file their environmental statistics in addition to their health & safety ones, the committee has decided to combine the reports into one so they only have to complete one form for submissions.

At the time of the meeting, there were between 60 and 70 entries on the Health & Safety Shared Experiences Platform. All members are encouraged to contribute to and learn from this tool.

Following a question regarding the reasons for the poor attendance at the last Health & Safety Workshop, it was explained that a questionnaire had been sent out in July and that, during their October meeting, the committee had reviewed how to better promote these workshops, how to encourage higher attendance and also how to spread the word on the importance of health, safety and preservation of the environment.

The committee agreed to move the workshop to October (25<sup>th</sup>) instead of June to coincide with other IPLOCA meetings, and to optimise travel time and costs for certain participants. It was also suggested that presentations about safety could be made by a local speaker during regional meetings.

The deadlines for submissions to the next Health & Safety and Corporate Social Responsibility Awards are 12 May and 19 May, respectively.

### Client Engagement Committee

During the course of the past year, eight Corresponding Members have joined: BP; ExxonMobil; Gasunie; GRTgaz; Saudi Aramco; Shell; Trans Adriatic Pipeline; TransCanada. It was agreed to produce a document on the benefits of Corresponding Membership, to assist in promoting this category.

### New Technologies Committee

It was noted that the Fall Novel Construction meeting had been attended by 56 persons and that there was an impressive amount of activity and commitment in the work groups. The committee said they would encourage involvement from Corresponding Members.

The Spring session will coincide with the HSE Committee meeting (5-6 April, in Amsterdam). Directors were reminded that the presentations on new technologies during the plenary session could be made by members and non-members. The speakers programme for the Spring is already complete – and the Fall programme is filling up.

The work groups are focused on reviewing the content of the 4<sup>th</sup> edition of The Road to Success. Since it is being issued as an app, features can be added that are not in the book already. There is also the potential for sharing ideas on an interactive basis. It was confirmed that the app will only be available for IPLOCA members and will be password protected.

Regarding the research projects co-funded with Pipeline Research Council International (PRCI), the Committee will discuss possible topics for research in the future.

The Road to Success also includes some guidance about Standard Forms of Contract. Pinsent Masons, a legal firm that is an Associate Member, is interested in assisting with the development of risk sharing models. Contract administrators from members are welcome to help with the work of this group.

### Scholarship Committee

It was agreed to send a reminder to Regular and Associate Members in December about the 27 January scholarship application deadline. At the request of the Board of Directors, the committee has been looking at different ideas for generating a funding stream, after the initial 3-year period which had been approved to be financed from IPLOCA funds.

### Board & Convention Location Committee

The remit of the Board & Convention Location Committee now includes the search for venues for board meetings as

well as for the annual convention. The Executive Committee has also agreed to expand the scope of this committee to cover finding speakers for the convention.

It was explained that it has become current practice to locate conventions following the presidency rotation table. However, it was noted that the convention does not necessarily need to be held in the country or city of the president and it is the role of the committee to recommend the most suitable locations, irrespective of the nationality of the president.

### Temporary By-laws Committee

A number of amendments have been made to the By-laws to incorporate Corresponding Members and to allow enough time for the processing of nominations for election to the Board of Directors. These changes will be presented to the membership for approval at the AGM in Mexico City in September. One of the remits of the Temporary By-laws Committee was also to divide the Secretariat's "Aide Memoire" document into several operational manuals, which will be updated regularly and will ensure that all functions of the Secretariat are documented.

### Treasurer's Report

Jan Koop presented the 2016 Forecast and the Budget for 2017. The forecast was a loss of CHF 80,000 less than budgeted. There has been CHF 17,000 less income from Regular Members than expected, but CHF 80,000 extra has been received from Associate Members. Extra costs

for the Final Banquet were incurred at the special 50<sup>th</sup> Anniversary Convention in Paris, but these had been covered by sponsorship. Overall the level of sponsorship at the Convention was excellent.

The 2017 Budget was unanimously accepted by the Board. It was based on a reduction in the number of Regular Members, an allocation to support three regional meetings and three board meetings in addition to the one at the Convention.

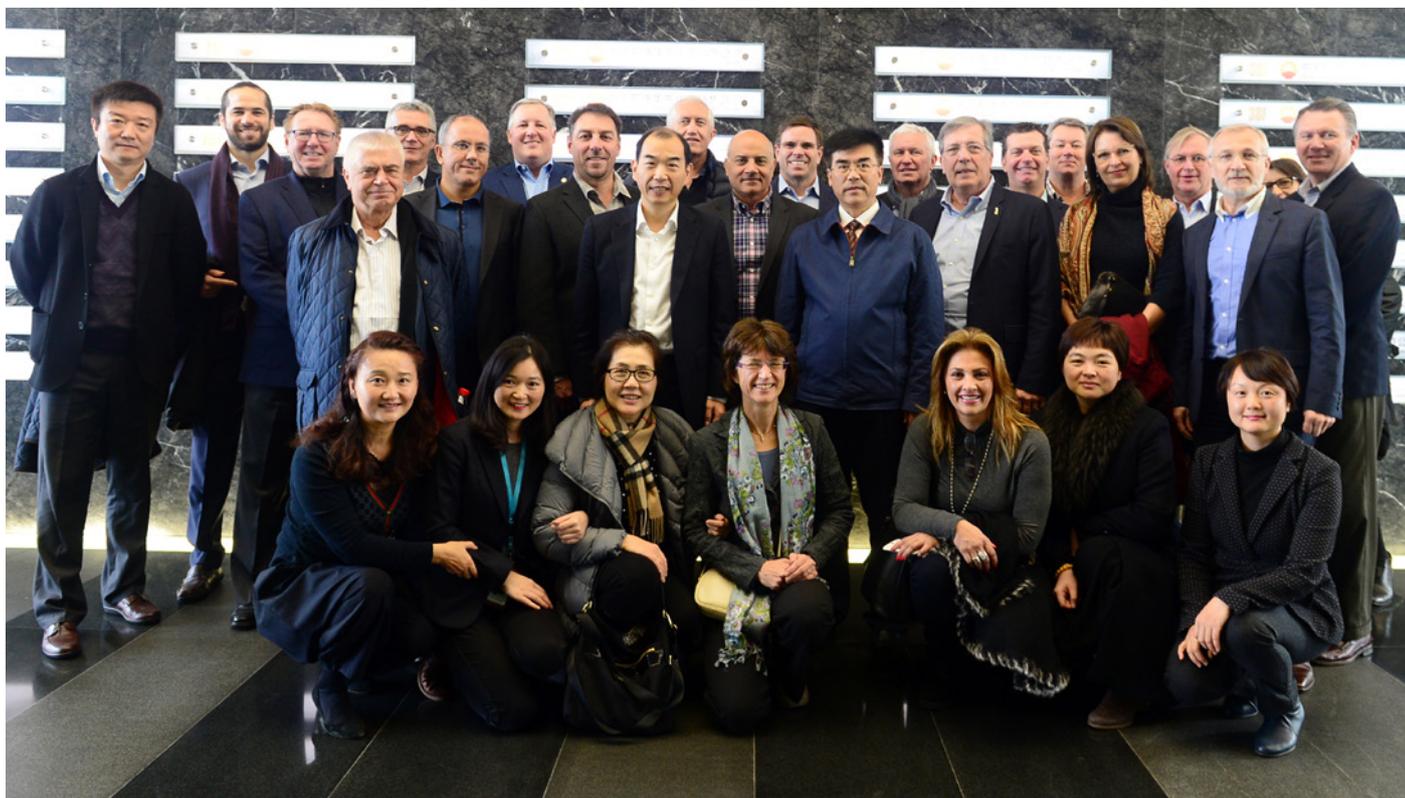
Following a question about the balance sheet, Jan Koop confirmed that IPLOCA continues to hold cash in three currencies, totalling around CHF 3.3 million.

### Membership

At the time of the meeting, total membership stood at 250, including 103 Regular Members; 133 Associate Members; 8 Corresponding Members; 4 Academic Members and 2 Honorary Members.

#### The following members were approved:

- Grupo Desarrollo Infraestructura S.A. de C.V. (GDI), Mexico (change from Associate Member to Regular Member)
- IDR, France (Associate Member)
- Trans Adriatic Pipeline (TAP) AG, Italy (Corresponding Member)
- TransCanada Mexico, Mexico (Corresponding Member)



The programme also included a technical visit to a CPP (China Petroleum Pipeline Bureau) control centre in Shanghai.

**Resignations were received from:**

- HB Construction Company, Canada (Regular Member)
- RAE Energy Limited, U.K. (Associate Member)
- Saipem S.p.A., Italy (Regular Member offshore)
- Zeppelin International AG, Switzerland (Associate Member)
- ZRUG Sp. Z o.o., Poland (Regular Member)

**The following name change was received:**

- JSCTDC Diascan to Transneft Diascan JSC (Associate Member)

**Convention**

The results of the convention questionnaire were presented. It was noted that over the last six years the percentage of first time attendees has gradually increased, representing nearly 20% at the 50<sup>th</sup> Anniversary Convention in Paris. Respondents confirmed that they still find it useful to receive a hard copy of the convention brochure. Concerning the OGMs, there is a general agreement to continue with an opening speaker on a local topic and the presentations by IPLOCA Committees continue to be appreciated. There was a request for information to be more widely communicated about the Board of Directors election process and who the candidates are.

Arrangements are progressing well for the 2017 Convention in Mexico City and the deadline for speaker proposals is set

for the next board meeting in March. It was agreed to post a Call for Speakers on the IPLOCA website and to mail it out to all members.

**Regional Meetings**

Regional Meetings are an opportunity to invite local clients, to update members on what is happening in IPLOCA, and invite non-member companies to see what the association is doing. Following the last Regional Meeting held in China, three new members have joined.

A regional meeting in Berlin will be organised on 2 May, in conjunction with the Pipeline Technology Conference. Additional regional meetings will be announced in due time.

**IPLOCA Yearbook**

Juan Arzuaga confirmed that the contract to publish the IPLOCA Yearbook would be renewed with Pedemex for a further 5 years.

It was agreed that quarterly updates will be made to the mobile version of the IPLOCA Yearbook, based on the membership reports created after each board meeting.

**Next Board Meeting**

The next meeting will be held in Toronto, Canada from 21 to 24 March.

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# Member News

**Fluor Places Final Module for Suncor East Tank Farm Development Project**

Fluor Corporation placed the final module, in December, for the Suncor Energy Oil Sands Limited Partnership’s East Tank Farm Development project near Fort McMurray, Alberta, Canada. The East Tank Farm Development, which



will be a Suncor-operated midstream asset, is currently under construction in the Wood Buffalo Region of Alberta. The facility will consist of bitumen storage, blending and cooling facilities and connectivity to third-party pipelines. As part of its engineering, procurement, fabrication and construction scope, Fluor managed module fabrication and shipment of the modules, all of which were fabricated by Fluor’s Supreme Modular Fabrication Inc. (SMFI) joint venture fabrication yard near Edmonton, Alberta. Engineering and construction personnel were integrated into the fabrication teams to support construction-driven execution through the phases and the 95 modules were fabricated and shipped in ten months, aligning to the site setting schedule and on budget.

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**Herrenknecht’s Direct Pipe Technology Used in Poland for First Time**

In the fourth quarter of 2016, drilling contractor PPI Chrobok S.A. installed two new gas pipelines in Poland. The alignment runs along existing gas lines and through geologically challenging terrain. With the laying of the



700 and 464-meter-long pipelines, Herrenknecht's Direct Pipe technology was used in Poland for the first time. With the construction of a new north-south pipeline connection, Poland is reacting to the increasing local demand for gas. Part of this network expansion is the "Czeszów-Wierzchowice Gas Pipeline Project" in the southwest of the country. So far, only HDD technology (Horizontal Directional Drilling) had been used for crossing rivers or roads during pipeline projects in Poland. Given the heterogeneous, non-stable grounds and the fact that the two alignments run along existing gas lines where uncontrolled deviations during the drilling process had to be avoided, the main contractor PGNiG Technologies S.A. together with drilling contractor PPI Chrobok S.A. opted for the innovative Direct Pipe technology. This method combines the advantages of microtunnelling and HDD technology. In a single step the required borehole is created and the prefabricated pipe is simultaneously installed without a trench.

### Serimax – 3,730 Welds to be Produced at the Orkanger Spoolbase

Serimax, a Vallourec subsidiary and leader for on and offshore welding solutions, has been awarded by



TechnipFMC the welding pipeline scope for a major project in Norway. This milestone project marks the beginning of a new era for the company, as TechnipFMC and Serimax combine their expertise and deploy Serimax Welding Technology at TechnipFMC's spoolbases and on board TechnipFMC's S-lay vessels, following the strategic partnership signed earlier this year. Production welding for the project started at the end of 2016, preceded by a welding quality procedure testing programme in Orkanger. Production welding includes double-joint welding in TechnipFMC's adjacent facility where 12m long tubes will be welded end to end. The resulting 24m long tubes will then be transferred to the mainline production workshop where they will be welded into pipestalks, ready for spooling onto the TechnipFMC reel-lay vessel. Production welding includes 1865 double joint welds and 1865 mainline welds, using the advanced Saturnax-09-system.

### Laurini Officine Meccaniche Launches its New Crusher Hammer



After the success of its Vulcano 2.0 machine, a vibrating screen on a radio-controlled crawler, of which over 100 units have been produced for use at worksites all over the world, Laurini Officine Meccaniche has now launched its new Hammer crusher. This crusher for roadbed and backfill is based on extensive, targeted research to optimise the functional capability of the machine. Following numerous positive tests of the prototype under a variety of worksite conditions in Italy, there has been an increase in demand for the new Hammer. To date, the first ten Hammer units are already at work in different countries, including Albania, Greece, Turkey, Tunisia, Peru and Mexico. Adaptable to many kinds of terrain, the machine is equipped with a sturdy crawler truck capable of working on steep slopes with up to 70% gradient. The main feature is the ability to crush large pieces of rock and turn them directly into fine sand, which is then deposited directly into the trench.



### Tesmec Trenchers Across Greece: Strategic Solution for TAP Project

A fleet of four large Tesmec chainsaw trenchers is being used for the Greek section of the TAP project. The fleet faced an extreme jobsite with high slopes and different kinds of hard rock, such as metamorphic schist and marble. The machines have provided high productivity, low teeth consumption, no downtimes and excavated material suitable for bedding and backfilling; creating cost efficiency for the site. In addition to this the reduced manpower (one trencher can replace many excavators), the straight ditch and the quality of the trenching work resulted in smooth and safe operations. Pilot trench method has been used for the hardest areas: one 50 ton trencher (model 1150) was followed by a 100 ton trencher (model 1475) and then by a 140 ton trencher (model 1675) which has cut the final trench to accommodate the 48" pipeline. This procedure increases the overall productivity of the trenchers fleet in the case of large cross sections in very hard materials.

The star of the fleet is the Tesmec 1675 equipped with TrenchTronic 3.0 full digital control: the machine has reached in this project productivity rates up to 110 linear meters per hour. The performances of the machines were the result of manufacturing quality and fleet management services provided by Tesmec: the manufacturer has indeed provided skilled operators, supervision, technical assistance, maintenance and special digging teeth. Further kilometers of TAP in Greece are being dug with this efficient solution.

### Saudi Arabia-Turkey Business Forum Welcomes Turkish Businesses

Recently, Saudi Aramco and representatives from different sectors of the Saudi Arabian government met with Turkish business owners in an effort to strengthen the economic alliance between Turkey and Saudi Arabia. The

meeting was held in Dhahran, Saudi Arabia, and attended by 21 major Turkish companies representing the power generation, construction, and other sectors relevant to Saudi Aramco's core business. Representatives from the General Authority of Zakat and Tax, the Ministry of Labour and Development, and the Saudi Arabian General Investment Authority presented information to the group on the fundamentals of conducting business in Saudi Arabia while Saudi Aramco staff members elaborated on the requirements of becoming a qualified Saudi Aramco vendor. The presenters further highlighted the various opportunities available to the Turkish business owners as they were reminded that Saudi Aramco alone spends over USD 34 billion annually on projects such as infrastructure development, unconventional resources, and construction.

Another major highlight of the meeting was the IKTVA (In-Kingdom Total Value Add) programme, which ensures that companies doing business in Saudi Aramco focus not only on profits but also on employing local talent and engaging with local business owners. Memoranda of Understanding were executed between the Turkish business owners and Saudi Aramco as a good faith effort towards future opportunities.

### Fernas Construction and Volvo Construction Equipment Collaborating on TANAP

Awarded Lot-1 of the TANAP crossing Turkey, Fernas Construction is using Volvo PL4809D pipelayers for the first time. Using huge 56" pipe, this first section will run for 375 km between the Turkish village of Türkgözü in the Posof district of Ardahan, on the country's eastern border with Georgia, to Askale in the province of Erzurum. The PL4809Ds will work alongside conventional sidebooms. Over the TANAP's route, conditions range from 40% plain to hilly, 30% hilly to mountainous and 30% mountainous, with slopes up to 30 degrees encountered along the way. Winter in Turkey, allied to the topography, makes for a



challenging environment. The first part of the project, and considered the most challenging, was a 79 km stretch between Imranli and Sakaltutan where the elevation in the region increases up to 2,800 m, the terrain is very rough and temperatures occasionally fall to -25°C. Requiring some 6050 pipes to be laid, each 13 – 13.5 m long, transportation was challenging too with only four access roads, so forest paths also had to be used.

The PL4809Ds offer distinct advantages with a huge, 102-ton tipping capacity with the additional counterweight – excellent stability, an on-board Load Management System and no requirement to remove the boom for machine transportation. With some 70% improvement in tractive force, these machines are able to manoeuvre under tough terrain conditions and climb gradients up to 30 degrees while carrying a heavy load. Their unique 360° upper structure swing provides added safety in slope operations by enabling the boom and the load to be positioned uphill. Fernas and its operators will be supported throughout the project by Volvo Construction Equipment's Turkish dealer, Ascendum.

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### **CRC-Evans Completed Work on Energy Transfer's DAPL Pipeline**

CRC-Evans completed work on Energy Transfer's DAPL Pipeline which consisted of over a thousand miles of 30" pipe that runs through four states (North and South Dakota, Iowa, and Illinois). It consisted of 9 different spreads which were awarded to two different contractors: Precision Pipeline being awarded spreads 1-3, and 7-9 and Michels was awarded spreads 4-6. Both Precision Pipeline and Michels chose to use CRC-Evans for automatic welding on all of their spreads, except spread 9 because it is not 30" diameter. Both contractors also ran CRC-Evan's internal welder with multiple back-end stations to finish out their welds. A total of 68,376 welds were completed across all spreads. Michels and Precision Pipeline also used CRC-Evans for all of their field joint coating to keep up with the speed of the automatic welding equipment. A total of 77,934 joints were coated. Michels chose CRC-Evans due to bending requirements on all spreads. Precision Pipeline has used CRC-Evan's bending equipment for three of their spreads. Additionally, Stanley Inspection was awarded the weld inspection on all of Michels' spreads. CRC-Evans supplied the DAPL projects with 20 technicians spread out over each spread with an average of 16+ years' service experience. In addition, CRC-Evans supported the coating spreads with the industry's top coating technicians; many of them with over 10 years' experience in the business.



### **Denys Awarded Pipeline Construction Projects in Europe and EPC Contracts in Saudi Arabia.**

Denys, specialised in pipelines, tunnelling and several other construction related fields, has been recently awarded pipeline construction contracts in France for GRTgaz (75 km of 48" pipes) and in Germany for Bayernets (40 km of 48" pipes) and two EPC contracts in Saudi Arabia for Saudi Aramco (150 km of 36", 30" and 16" pipes). The total value of these projects exceeds USD 350 million.

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### **SICIM's Projects Span Three Continents**

Three new projects have been awarded to SICIM, in three different continents. ENI Iraq, on behalf of ZFOD which is developing the oil field of Zubair near Bassora in the south of Iraq, has awarded SICIM the EPC contract for the oil gathering network installation, which includes installation of over 80 km of new flowlines and trunklines and the connection to newly drilled wells. This contract, with a value of almost USD 80 million, follows on from a similar major development carried out for ENI Iraq between 2012 and 2015, which included the installation of over 400 km of pipelines and facilities in the same area for USD 375 million. In Europe, namely in Scotland, GNI (a subsidiary of Bord Gais Eirean – BGE) has awarded SICIM a EUR 40 million contract for the installation of the Southwest Scotland Onshore System (SWSOS) Contract, intended to build a 36", 50 km gas line to connect the gas plant of Cluden to the compression station of Brighthouse Bay. The area is about 150 km south of Glasgow near the city of Dumfries.

In the Americas, SICIM, through its joint venture GSP (GDI SICIM Pipelines), has also been working with TransCanada in the execution of the land approaches and other facilities for the offshore project Sur de Texas - Tuxpan project in Mexico. This contract involves the installation of four 42" and 36" HDD crossings. Its scope includes the construction on an EPC basis of all land facilities and onshore pipelines in Altamira and Tamiahua where the pipeline comes



onshore. The contract when finalised has an estimated value of USD 80 million over a duration of 18 months. SICIM will also provide all necessary support for the contractor installing the 2.3 km tunnel to accommodate the shore approach of the two 42" pipeline sections in Altamira.

### ISCO Industries' Involvement in Record Pull Project in Florida

ISCO Industries provided the pipe destined to replace a 54" sanitary sewage force main conveying sewage through the city of Miami Beach to the county wastewater treatment plant in Virginia Key. In 2013, after conducting a condition assessment, it was discovered that the sole pre-stressed concrete cylinder pipe (PCCP) sanitary main serving the city was deteriorated and potentially at risk of failure due to "Hydrogen embrittlement." The project was not without several challenges. First, the geological makeup of the force main site, typical of south Florida, presented an obstacle: a layer of sand, shell, coarse sedimentary rock, over a layer of clay and sand. Direct replacement of the sanitary force main was not a viable option as this was the city's primary sanitary sewer and could not be taken out of service to construct a new line. In-place replacement (open cut) would have been extremely expensive and disruptive



to the community living and working along the heavily trafficked, congested corridor.

The project, managed by the city's Public Works Department, was awarded to David Mancini & Sons, Inc. (DMSI) as general contractor. DMSI retained Brian Dorwart of Brierley Associates to design the pipe, provided by ISCO Industries. It was a world record, 3,000 foot long and a 1,200 foot long installation of 54" diameter HDPE pipe using horizontal directional drilling (HDD) methods. DMSI brought in Hardrock Directional and Spartan Directional, LLC to complete two pulls of the HDPE underground. The pull required the crew to open a six-foot hole for 3,000 feet in order to pull the 54" pipe. Another challenge was stopping to do a fuse on the two 1,500+ lengths of pipe. A field technician from ISCO Industries worked with the crew to line up the pipe ends in a McElroy MegaMc 2065. The record pull was completed in 2016.

### New Range of Products from GLOBE



In 2016 GLOBE Srl was appointed as one of the official suppliers for top quality abrasive cutting and grinding discs and other finishing products by one of the biggest oil & gas companies in the Gulf Cooperation Council (GCC) that provides total EPC solutions to the onshore and offshore oil & gas industry. Based on orders from the oil & gas industry, GLOBE has launched a new range of products, including newly customised and higher performance, abrasive cutting and grinding discs with special sizes and improved abrasive mixture.

### Two Offshore Contracts in Egypt for Van Oord

Van Oord has been awarded two contracts by international contractor Subsea 7. The assignments include the construction of a landfall and the execution of subsea rock installation works in Egypt. The projects are part of the West Nile Delta project, which comprises the development



of a series of gas fields, located 65 km off the northern coast of Egypt. The end client is oil and gas company, BP. Preparations on site have already started. The landfall scope of work consists of the installation of a cofferdam, trenching and pipe pull activities and will be executed in 2017. The landfall location is at the Burrulus terminal near Idku, 50 km from Alexandria. Van Oord will deploy a trailing suction hopper dredger, backhoe dredger and 600 tons winch. Flexible fallpipe vessel Stornes will be deployed this year to execute rock installation activities to prevent upheaval buckling.

### Mears Group Expands Trenchless Services

Mears Group has expanded its services to add Direct Pipe® (DP) to its Horizontal Directional Drilling (HDD) capabilities - adding more trenchless solutions for the oil and gas, electrical and water/wastewater industries. Mears has acquired two pipe thrusters (500 and 750 ton) and Microtunnel Boring Machines (MTBM's) allowing for the installation of 30" to 60" diameter pipelines by Direct Pipe. The benefits of Direct Pipe include providing a feasible alternative for many shore approach projects; a one pass installation of product or casing pipe; highly accurate guidance system; surface to surface pipeline installation;



lower risk of hydraulic fracture (inadvertent returns); minimal work space required (equipment is located on one side of the crossing); installation at shallower depth and reduced crossing length. Mears completed its first DP project in Toronto in 2015. The purpose of the project was to expand and upgrade the existing natural gas distribution system for Toronto and the surrounding areas. Mears was awarded the HDD and DP crossings on the 42" pipeline section of the project. The project involved six HDD crossings and one DP crossing, ranging in various lengths from 386 m to 1,188 m.

### Welspun Appointments, Concrete Weight Coating and Saudi Aramco Project

Mr. Lalit Naik has been appointed as MD & CEO of Welspun Corp Ltd. with effect from 1<sup>st</sup> December 2016. He is a prominent figure in the industry with over three decades of experience in chemicals, building materials, agri inputs & insulators. Also, Mr. Vipul Mathur, who has over 24 years' experience in the oil & gas pipeline industry, has been promoted as COO of Welspun Corp Ltd.

Welspun Corp. Ltd. is currently executing the single largest sour service order of 200K MT for Saudi Aramco - Hasbah Offshore Gas Facilities Increment II trunk lines project of extreme D/t (~ 22.5) with a thickness up to 40.64 mm at its Dahej facility in India. The facility was specially upgraded recently with a digital welding system along with an online centralised monitoring system for weld parameters & control in a close loop, heavy duty tack welding machine and modern radiography & UT, to ensure sustainable quality performance.

### Pipeline Contractors Turn to Welding Process Developed by a Subsidiary of ITW for Productivity and Quality

Regulated Metal Deposition (RMD®), an advanced wire welding technology, from a wholly owned subsidiary of Illinois Tool Works (ITW) Inc., offers significant benefits for productivity and quality to pipeline contractors dealing with industry challenges such as demanding project timelines, stringent quality requirements and a shortage of skilled welding operators. With this exclusive RMD technology, travel speeds are three to four times those of stick welding and the back purge on some alloys is eliminated. RMD and advanced wire processes are also generally easier to learn and use, making it easier to quickly train and qualify skilled welding operators for pipeline requirements.

Using RMD, the welding system anticipates and controls the short circuit, then reduces the welding current to create

a consistent metal transfer. This provides a uniform droplet deposition, making it easier for the welding operator to control the puddle. The process is also more forgiving to variations in stickout, resulting in a calm, stable arc that is easier for operators to control. Some contractors who have converted to RMD and wire processes are completing jobs in half the time compared to using stick or TIG, without sacrificing weld quality. That's because the RMD process provides the ability to create a thicker root pass — enough to eliminate the need for a hot pass in many cases and to support the heat input of pulsed MIG or flux-cored welding for the fill and cap passes.



### **Arendal is Awarded a Long Term Rehabilitation, Operation and Maintenance Contract.**

Arendal, one of the major Mexican EPC firms, has recently been awarded a contract to rehabilitate, maintain, and operate two CO<sub>2</sub> pipelines in the southeast of Mexico. Pro-Agroindustria, a subsidiary of PEMEX, is in charge of revamping all the fertilising facilities recently bought from private entities. As part of the system, there are two CO<sub>2</sub> pipelines that transport this gas into the Urea fabrication

facilities. The lines are built mostly on swampy terrains and lowlands, and have been out of use for some years. Arendal has begun rehabilitating them by installing an internal liner and substituting sections in order to leave them in operational conditions. Once the rehabilitation phase is over, Arendal will be in charge of the operation and maintenance of the pipelines and compressing facilities for a period of twenty five years.

### **Tekfen Construction's Role in the TANAP**

Tekfen Construction is executing Lot 3 of the TANAP, the longest section (509 km) of the 56" sections. HDD is being used in Lot 3 for crossing large-scale rivers, including the following crossings: Delice River Crossing 1 (588 m); Delice River Crossing 2 (632 m); Sakarya River Crossing (1103 m); Kızılırmak River Crossing (602 m). The Delice Crossings were successfully completed in 2016, the Sakarya Crossing

is scheduled to be completed by the end of February 2017 and the Kızılırmak Crossing is planned to be finished one month later. Upon completion, the Sakarya River Crossing will be the longest HDD crossing in Europe, surpassing the 1073 m-Elbe River Crossing, built by NEL, Germany and it will be the 2<sup>nd</sup> longest HDD crossing for a 56" diameter pipeline in the world, after the 1705 m-Amu Darya River Crossing, provided by Turkmen gas, Turkmenistan.



# New Technologies

## Novel Construction Spring Plenary Session

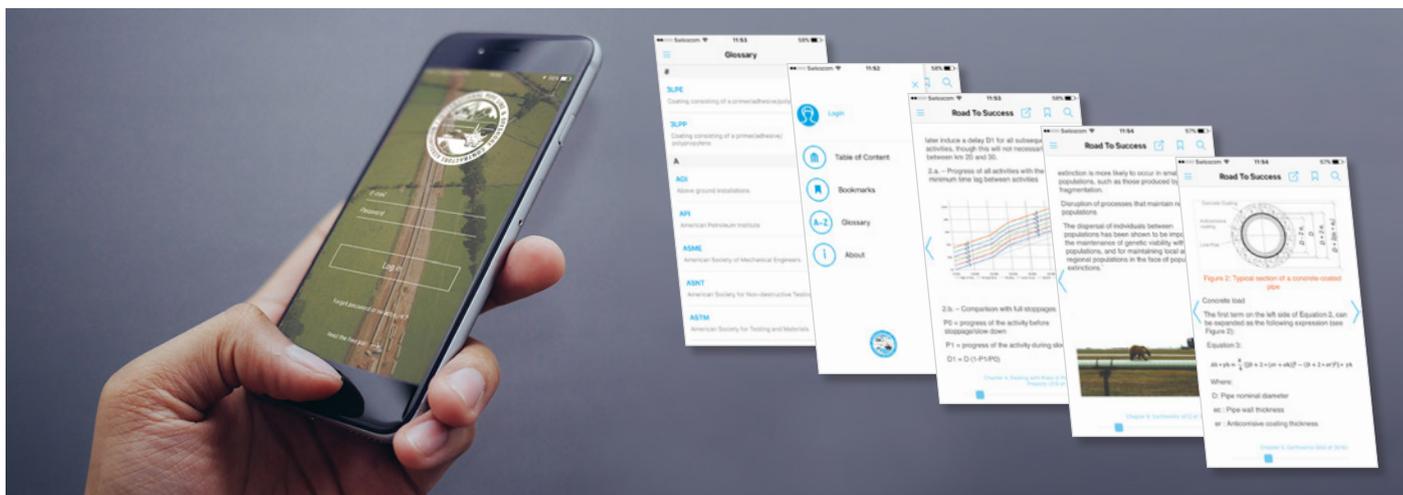
The Novel Construction Initiative's Spring plenary session will be held from 5 to 6 April 2017 at the NH Amsterdam Centre Hotel, in Amsterdam, The Netherlands.

The agenda and registration details are available at [www.iploca.com/novelplenarysession](http://www.iploca.com/novelplenarysession). These sessions

serve as an open forum for member and non-member companies to present their newest developments within our industry and are an opportunity for the workgroups to meet and discuss their contributions to the live document, "The Road to Success".

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

## The newly developed "The Road to Success" Mobile App



The 4<sup>th</sup> edition of the reference document, "The Road to Success", is now available as an app to IPLOCA members only, as a benefit of membership.

This most recent format has been specifically created to make it easier to include new elements and to keep the contents up to date. The capabilities of this new tool will allow users to search within the content; bookmark pages; navigate easily through chapters; highlight and share

paragraphs/pages and, furthermore, have the book with them at all times either on their smartphone or tablet. For more information, please refer to the IPLOCA website.

The workgroups will meet during the next Spring session to continue working on the content. New contributors are welcome, so should you wish to contribute to future chapters or assist in keeping this important tool up to date, please contact the appropriate group leader.

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Earthworks & Crossings	Paul Andrews (Fluor)	<a href="mailto:paul.i.andrews@fluor.com">paul.i.andrews@fluor.com</a>
Welding & NDT & Testing	Jan Van Der Ent (Applus RTD)	<a href="mailto:jan.vanderent@applusrtd.com">jan.vanderent@applusrtd.com</a>
New Trends & Innovation	Zuhair Haddad (C.C.C.)	<a href="mailto:zuhair@ccc.me">zuhair@ccc.me</a>
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# Membership Centre

## New Regular Member



**GDI** is a Mexican EPC contractor, with more than 11 years' experience, focused on delivering on time and guaranteeing the quality of their work without incidents or accidents. GDI is a leader in pipeline construction in Mexico and also has a vast experience in permit management, land acquisition and community management. At GDI, people are their most important asset, which is why training and commitment are a major focus within the company, in order to guarantee the success of all projects in a timely manner.

### **GDI – Grupo Desarrollo Infraestructura S.A. de C.V.**

Av. Desierto de Los Leones 24, Oficina 401  
San Angel, Alvaro Obregon, 01000 Mexico  
Mexico  
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[comercial@gdi.com.mx](mailto:comercial@gdi.com.mx)  
[www.gdi.com.mx](http://www.gdi.com.mx)

## New Associate Member



Founded in 1995, **IDR** is specialised in the support, study and engineering of linear infrastructures and pipelines in particular. The company focuses on the engineering, consulting and audit of existing or future pipelines. Quality is the driving force of the company's services; which is why it is demanding with regards to the professionalism of its teams and the efficiency of its work. IDR is now part of the Parlym Group, which has a presence in 25 locations throughout the world and 500 employees for a turnover of more than EUR 100 million.

### **IDR**

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33640 Castres-Gironde  
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T +33 5 56 67 17 10  
F +33 5 56 67 22 47  
[engineering@idr-international.com](mailto:engineering@idr-international.com)

# Health, Safety and the Environment

## Health, Safety & 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. We welcome this information also from our Associate Members who have field construction activities.

The newly combined online form, along with guidelines and translations in French, Russian and Spanish, are

available at [www.iploca.com](http://www.iploca.com). The returns should cover pipeline construction sites or offshore operations and all infrastructure-related projects.

The deadline to submit your 2016 Health, Safety and Environmental Statistics Returns is **10 March 2017**. Therefore, if you are representing a Regular Member and you have not yet sent in your statistics, please do so immediately. 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.

## Reminder: Health & Safety KPI Objectives for 2020

In our last Health & Safety Statistics Report, we have regrettably reported 24 fatalities on our work sites in 2015, after an encouraging decrease during the 2011-2014 period.

Eliminating fatalities is a priority and the Board of Directors recently approved the ambitious long term KPI objectives set by the HSE Committee for 2020:

- **Leading indicators:** a minimum of 30,000 recorded near misses and a training rate of more than 15,000 hours per million hours worked
- **Lagging indicators:** zero fatalities and a Total Recordable Incident Rate (TRIR) of below 1 per million hours

Our President, Rubén Kuri has written to the Key Representatives of IPLOCA members to personally urge them to put every effort into implementing the most efficient health and safety measures within their organisations to reach the zero fatality objective, in particular. He strongly encourages all members to share and learn from the initiatives developed over the years by the HSE Committee.

The IPLOCA Board decided –following the HSE Committee’s suggestion- to invite a health & safety specialist to speak about leadership and safety culture at our 51<sup>st</sup> Convention in Mexico.



### New Member of the HSE Committee

The HSE Committee welcomes its newest member: **Michael Concepcion**.

Michael is based in the U.K. and has been HSE Manager at Pipeline Induction Heat (PIH) since August 2013. He has worked with PIH project teams both on and offshore to develop a positive HSE culture throughout the business with a key focus on employee engagement. Michael is currently a technical member of the Institute of Occupational Safety and Health (IOSH) and a member of the City and Guilds Institute for Leadership and Management.

## Health & Safety Shared Experiences Platform

We welcome and encourage all industry players to share their experiences and invite you to learn from the experiences of others, by visiting [www.iploca.com/safetyplatform](http://www.iploca.com/safetyplatform). Below is the list of the latest documents uploaded, at the time of publication:

### Lessons learned:

- **Electricity:** Electromagnetic field hazards
- **Health:** Electromagnetic field hazards
- **Transportation:** Road traffic accident involving high speed

### Safety alerts:

- **Fire - Explosion:** Exothermic reaction to polyurethane foam
- **Impact with construction equipment:** Capsizing of a pipe layer’s crane into a trench; Fatal accident between two pay-welders
- **Lifting operations:** Fatality from a falling lifted welding station
- **Slips, trips and falls:** Fall from a high pipe-carrying truck
- **Transportation:** Fatal collision on public highway; Use of safety belts essential to avoid RTA fatalities; Vehicle overturning on the ROW

### 2017 Health & Safety Workshop - Wednesday, 25 October, 2017

Mark the date in your diaries and watch this space for more information in future editions of the newsletter.

## Regional Meetings

### Europe Central in Berlin, Germany

**Our Regular Member, Mannesmann Engineering & Construction, with the support of Maats Pipeline Equipment and PPS, is organising a Regional Meeting for the Europe Central region on 2 May at the Estrel Convention Centre, Berlin, in conjunction with the 12<sup>th</sup> Pipeline Technology Conference.**

IPLOCA Directors for Europe Central, Mesut Sahin and Jan Koop will be on site to greet attendees and answer questions. Participants will have the opportunity to visit the Conference in the morning, with lunch taking place in the exhibition area. The afternoon programme will include

an update on IPLOCA initiatives, as well as presentations by local speakers from the industry and will provide opportunities to meet members and guests from the region. All presentations will be made in English. The full agenda and registration details will be sent to member representatives in the region and made available on the IPLOCA website.

Further information regarding the Pipeline Technology Conference and Exhibition can be found on: [www.pipeline-conference.com](http://www.pipeline-conference.com).

Other IPLOCA Regional Meetings are still in the planning stage. Please refer to the IPLOCA website for further details, as these become confirmed.

# IPLOCA Awards

## to be presented in Mexico City

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

For more information on the awards, such as guidelines, entry forms and details on previous winning entries, please refer to the Awards page on [www.iploca.com/awards](http://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. We look forward to hearing about your latest initiatives and projects.

Please contact Sarah Junod, [sarah.junod@iploca.com](mailto:sarah.junod@iploca.com), if you have any questions.



## 2017 IPLOCA Health & Safety Award sponsored by Chevron

Deadline: 12 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



## 2017 IPLOCA Corporate Social Responsibility Award sponsored by Total

Deadline: 19 May

The Corporate Social Responsibility Award is presented every second year, alternating with the Environmental Award and is in recognition of members' initiatives, which are aimed at improving the living conditions of the people impacted by the pipeline industry such as:

- An initiative to address a specific need identified in the local community
- A programme or practice demonstrating the corporate social responsibility of the company
- A creative initiative in which a large impact is made with a small investment
- A long term project, intended to be continuously supported by the company or another company, once the pipeline activity is complete



## 2017 IPLOCA New Technologies Award sponsored by BP

Deadline: 26 May

The biennial New Technologies Award gives recognition to a significant contribution to innovation in the engineering of, the provision of equipment for, and the construction of pipelines by virtue of:

- A technological or engineering breakthrough
- A new piece of equipment, tool or construction supply
- A new type of permanent material
- Other relevant innovations



# 51<sup>st</sup> Annual Convention

## Mexico City

IPLOCA's Annual Convention will take place from 25 to 29 September at the Camino Real Polanco in Mexico City. Save the dates in your diaries for this special Mexican-flavoured event.

The five day programme will as usual include business meetings and technical presentations during the Open General Meetings, three days of tours and social events throughout the week.

The convention brochure will be mailed out in May, and **online registration opens on 1 June.**

## 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 current developments in future large pipeline projects, shared experiences of projects undertaken and HSE.

IPLOCA is calling for speakers from members and non-members to submit their abstracts before **Friday, 10 March.** Proposals should be well researched and focused on onshore and offshore pipelines and their construction, or be of broader interest to the pipeline industry. Potential speakers should note that presentations should not be deemed as marketing a particular product brand or particular company.

For further information and details, please refer to [www.iploca.com/conventionspeakers](http://www.iploca.com/conventionspeakers) or contact Caroline Caravellas, [caroline.caravellas@iploca.com](mailto:caroline.caravellas@iploca.com).



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Fondo Mixto de Promoción Turística CDMX

# Upcoming Events

## Conexpo - CON/AGG

7-11 March - Las Vegas, NV, U.S.A.

[www.conexpoconagg.com](http://www.conexpoconagg.com)

## PIG – The Pipeline Industries Guild Dinner

14 March - London, U.K.

[www.pipeguild.com](http://www.pipeguild.com)

## Pipeline Opportunities Conference

21 March - Houston, TX, U.S.A.

[www.pipeline-opportunities.com](http://www.pipeline-opportunities.com)

## NAPEC - The North Africa Exhibition and Conference

21-24 March - Oran, Algeria

[www.napec-dz.com](http://www.napec-dz.com)

## IPLOCA Board Meeting

Board Members only

21-24 March



## OMC 2017 - Offshore Mediterranean Conference & Exhibition

Discount available for IPLOCA members

29-31 March - Ravenna, Italy

[www.omc2017.it](http://www.omc2017.it)

## Pipeline & Energy Expo

4-6 April - Tulsa, OK, U.S.A.

[www.pipelineenergyexpo.com](http://www.pipelineenergyexpo.com)

## IPLOCA HSE Committee Meeting

HSE Committee Members only

4 April - Amsterdam, The Netherlands



## IPLOCA Novel Construction Initiative Spring Session

5-6 April - Amsterdam, The Netherlands



## Hannover Messe

24-28 April - Hannover, Germany

[www.hannovermesse.de](http://www.hannovermesse.de)

## Offshore Technology Conference

1-4 May - Houston, TX, U.S.A.

[2017.otcnet.org](http://2017.otcnet.org)

## IPLOCA Regional Meeting for Europe Central

in conjunction with Pipeline Technology Conference

2 May - Berlin, Germany



## 12<sup>th</sup> Pipeline Technology Conference

2-5 May - Berlin, Germany

[www.pipeline-conference.com](http://www.pipeline-conference.com)

## Geohazards and Geotechnics in Onshore & Offshore Pipeline Engineering

in conjunction with Pipeline Technology Conference

5-6 May - Berlin, Germany

[www.pipeline-conference.com](http://www.pipeline-conference.com)

## PLCAC - Pipeline Contractors Association of Canada - 63<sup>rd</sup> Annual Convention

14-18 May - Banff, AB, Canada

[www.pipeline.ca](http://www.pipeline.ca)

## Offshore Upstream Development in Russia and CIS

19 May - Moscow, Russian Federation

[www.rpi-conferences.com/en/upstream-development](http://www.rpi-conferences.com/en/upstream-development)

## IPLOCA Board Meeting

Board Members only

6-9 June



## IPLOCA HSE Committee Meeting

HSE Committee Members only

27 June - Geneva, Switzerland



## 51<sup>st</sup> IPLOCA Annual Convention

25-29 September - Mexico City, Mexico



## Offshore Energy

10-11 October - Amsterdam, The Netherlands

[www.offshore-energy.biz](http://www.offshore-energy.biz)

## APGA - Australian Pipelines & Gas Association – Convention & Exhibition

14-17 October – Cairns, Australia

[www.apga.org.au](http://www.apga.org.au)

## Other Important IPLOCA Dates

### Health, Safety and Environmental Statistics

10 March - Deadline for submissions

### IPLOCA Annual Convention - Call for Speakers

10 March - Deadline for submissions

### Member News for IPLOCA June Newsletter

14 April - Deadline for submissions

### 2017 IPLOCA Health & Safety Award

12 May - Deadline for submissions

### 2017 IPLOCA Corporate Social Responsibility Award

19 May - Deadline for submissions

### 2017 IPLOCA New Technologies Award

26 May - Deadline for submissions

### IPLOCA Annual Convention

1 June - Registration opens

### Member News for IPLOCA September Newsletter

14 July - Deadline for submissions

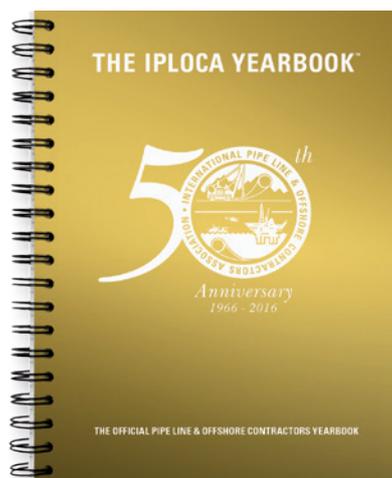
# IPLOCA 2017 Scholarship Programme



The Scholarship Committee is pleased to confirm that, by the end of January submission deadline, 200 applications had been made online for the IPLOCA Scholarship Programme. Scholarship Management Services, who administer the programme on behalf of IPLOCA, are undertaking the selection process and further information will be published in the June Newsletter.

## IPLOCA Yearbook 50<sup>th</sup> Edition

Message From the Publishers, Pedemex B.V.



The 50<sup>th</sup> edition of the IPLOCA Yearbook has been distributed worldwide to the desks and in the field offices of pipeline companies.

The IPLOCA Yearbook is available in hardcopy and on your mobile phone at [mobile.iploca-yearbook.com](http://mobile.iploca-yearbook.com). We hope this edition will again meet your expectations and we always appreciate any comments and suggestions.

Please continue to send any company updates (address changes or contact names) to [listing@iploca-yearbook.com](mailto:listing@iploca-yearbook.com) and be sure to also send a copy to [sarah.junod@iploca.com](mailto:sarah.junod@iploca.com). In this way both the publishers and IPLOCA can update the newsletter mailing lists and membership database.

Additional printed copies can be obtained on request: [www.iploca-yearbook.com](http://www.iploca-yearbook.com).

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# IPLOCA Board of Directors

2016-2017



**Left to right front row:** Jan Koop, Atul Punj, Andrew Ball, Rubén Kuri, Mesut Sahin, Juan Arzuaga. **Second row:** Doug Fabick, Jean Claude Van de Wiele, Georges Hage, Ma Chungqing, Oliviero Corvi, Bruno Guy de Chamisso, Alexander Kolikov. **Third row:** Adam Wynne Hughes, Brian Laing, Scot Fluharty, Bruno Maerten, John Tikkanen, Mark Barrows, Iosif Panchak, Steve Sumner. **Fourth row:** Albert Zakhem, Bill Partington, Bill Solomon, Fatih Can, Aqeel Madhi.

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1<sup>st</sup> Vice President - Director, Europe Northwest

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Director, Europe Mediterranean

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Director, Europe Eastern

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Director, Europe Northwest - Chairman, Convention Location Committee

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### Scot Fluharty (Mears Group)

Director, America North - Chairman, New Technologies Committee

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Director, East & Far East

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Director, East & Far East

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Director, Associate Members

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### Steve Sumner (Lincoln Electric)

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### John Tikkanen (Shawcor)

Chairman, Client Engagement Committee

## Executive Secretary

### Juan Arzuaga

\*appointed by the Board of Directors

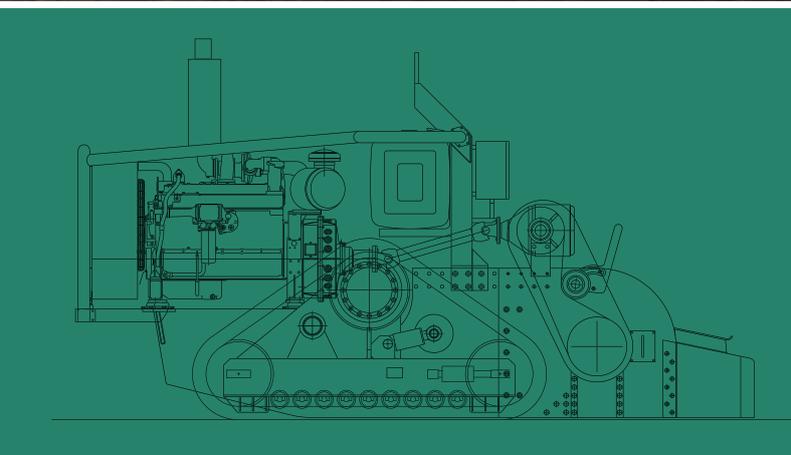


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