



Anniversary
1966 - 2016

THE IPLOCA NEWSLETTER

DECEMBER 2016



Paris Convention

page 14 - with 6 photo pages

Letter from the President page 4

News from Geneva page 5

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IPLOCA Awards page 17



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.

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Kashagan pipeline replacement
project - Kazakhstan
Courtesy of **Bonatti**

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Letter from the President

I am delighted to have the opportunity to serve as IPLOCA President for 2016-2017 and I feel honoured to be able to work with our newly elected board of directors on this year's goals.

We would like to extend a warm welcome to the eight newcomers to the Board. You will find their profiles on page 7 of this newsletter.

I would particularly like to thank and pay recognition to the outgoing directors, some of whom have been loyal members of this board for many years: Larry Bolander, Doug Evans (former president), Haldun Iyidil, Najib Khoury (former president), Ebbo Laenge, Wilhelm Maats and Jaya Sinnathurai. It is with great sadness that we learned of the sudden and unexpected passing of Wilhelm Maats only two weeks after he participated in the full programme of our annual convention.

Special thanks go to our convention sponsors and our Geneva Secretariat for organising such a memorable 50th anniversary convention in Paris. Just over 600 participants gathered at Le Méridien Etoile hotel, close to the Champs-Élysées and partook in numerous business, cultural and social events, culminating in a special Final Banquet at the Lido. A retrospective on the convention can be found on pages 14 to 18, including a feature on the winners of this year's IPLOCA Awards.

In this newsletter, you will also find updates on the work of our committees, specifically the HSE Committee and the New Technologies Committee (the Novel Construction Fall Plenary Session). The Scholarship Committee is looking forward to receiving even more applications in 2017. Please note that the application deadline is one month earlier than last year: 27 January, 2017. Under the Membership Centre section you will note that thanks to the work of our Client Engagement Committee, three new Corresponding Members have joined, bringing the total in this new category to eight.

The association will continue to engage with its current and potential members and increase its visibility through regional meetings and representation at our sister associations' events.

This is your association – please feel free to provide your feedback and give us your ideas on how we can better serve our members and the industry as a whole. You can be certain that the current board will make every effort to maintain the value of our association. I look forward to meeting and working with many of our members during this year.

Best regards,

Rubén Kuri

IPLOCA President 2016-2017

News from Geneva

IPLOCA Newsletters

In September we announced that we have classified and scanned a full set of IPLOCA Newsletters dating from December 1990 to the present time - that is 68 newsletters in total! During this span of 25 or so years, the style, design and content of the newsletter changed many times. Do you read the current newsletters from cover to cover, only read particular sections or just glance at them? Would you like to see additional content? We welcome any comments or feedback. Please write to caroline.caravellas@iploca.com

50th Anniversary Presidents Book

As you may be aware from earlier editions of this newsletter, with significant input from Gus Meijer, former Vice President of CRC-Evans, we published a 50th anniversary book to honour the commitment, energy and dedication of IPLOCA's past presidents, executive secretaries and board directors. This book includes 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 the Association. In addition to Gus, special thanks go to the artists, Ronald Damen and Jan Ernst Douma, to Maarten Meijer from CRC-Evans and to our publisher Peter Schoonenberg for their invaluable contributions. The book was distributed to all 50th convention attendees and is being forwarded to former presidents and executive secretaries

who were unable to attend. Limited copies of the book are still available. Please contact Caroline Caravellas should you wish a copy.

Season's Greetings

As this special anniversary year draws to a close, IPLOCA's Board of Directors and the staff of the Secretariat would like to thank everyone who has contributed to the work of the association not just during this past year, but also particular thoughts and thanks to all those who, during its fifty years' history, have made the association what it is today. In 2017 we look forward to new achievements and collaborations to benefit the pipeline industry. Our very best wishes to you all for a healthy, safe and prosperous new year!



TANAP early morning - Courtesy of Serimax

Board Meeting Update

Paris

The September Board of Directors meetings were held in Paris during the week of the annual convention. The following highlights the main discussions and decisions made during the four meetings of the Board.

Minutes of the Havana Meeting

The action items from Havana were reviewed in detail.

The Road to Success

The mobile app 4th edition of The Road to Success will be available for IPLOCA members only, through the use of

a password. Only the executive summary and the table of contents are available to the public. Since this is a live document, it can be updated on a regular basis.

Treasurer's Report

Jan Koop presented the Treasurer's Report, starting with the forecast to complete 2016. He said his main concerns were related to non-payments: six Regular Members had resigned to date and CHF 10,000 had not been received due to non-payment of membership fees.

To counterbalance this situation, however, twelve new members had been approved during the year to date. It is interesting to note that the relative numbers of Regular Members and Associate Members has shifted due to the fact that more Regular Members have resigned and more

Associate Members have joined.

He also announced that the Swiss Tax Authority has extended IPLOCA's tax exemption with no limit in time under its status as a "not-for-profit" association.

New Associate Members

Six Associate Members were confirmed: AnchorPipe International Inc., U.S.A., Amur Machinery and Services LLC, Russia, Bhotika Trade & Services Pvt. Ltd., India, CHETRA – Mining Machinery, Russia and TDC International AG, Switzerland.

New Corresponding Members

Three Corresponding Members were confirmed: BP Upstream Engineering Centre, United Kingdom, Saudi Aramco, Saudi Arabia and N.V. Nederlandse Gasunie, The Netherlands. This brought the number of Corresponding Members to six in total.

Resignations

Mainly due to lower activity in the industry: Essar Projects (India) Ltd., India and Per Aarsleff A/S, Denmark have resigned.

Executive Secretary Report

Juan Arzuaga presented the Executive Secretary Report, which included an update on possible venues for the 2018 and 2019 conventions. It was agreed to organise the Novel Construction meeting agendas with a six-month lead time, to allow certain members to plan ahead to be able to attend these meetings.

The first Excellence in Project Execution Award selection process was discussed and it was recommended that the New Technology Committee take a fresh look at the eligibility requirements to make them clearer, ready for the next award presentation scheduled for 2018.



Incoming President Rubén Kuri presented Atul Punj with his presidential pin.

Scholarship Programme

Doug Evans presented the scholarship selection process and explained that, although the idea is to award one scholarship per company and two per IPLOCA Geographic Region (plus 4 for students linked to Associate Members), it had been a challenge to achieve this first year, since there had not been a broad enough spread of candidates. It is hoped that a greater spread can be achieved in future years with more applications being received.

The Committee was pleased with the response for this inaugural year: selecting 20 students to each receive a USD 4500 scholarship. There was a good gender mix among applicants and also a good spread of the level of the employee parents within the member companies. A presentation on the programme was planned to be made at the OGM on the Friday of the convention and three scholarship students had accepted to go up on the stage during the presentation.

Pipelines – An Industry for All?

The contents of the article published in the September 2016 IPLOCA Newsletter, written by Sue Sljivic, board director at RSK, were discussed. Can IPLOCA play a role in helping to encourage more women into the pipeline industry? Further discussions will take place at future board meetings.

Convening of the 2016-2017 Board of Directors

On Friday during the week of our Annual Convention the retiring president, Atul Punj thanked his board and the secretariat for their support over the past year. He tabled the proposed names for the 2016-2017 officers and the board voted unanimously to appoint Rubén Kuri as President, Andy Ball as 1st Vice President, Mesut Sahin as 2nd Vice President and Jan Koop as Treasurer.

Incoming President Rubén Kuri then presented Atul Punj with his presidential pin. Rubén Kuri expressed his hopes that IPLOCA would continue to provide good support to its members in the coming year, particularly since the industry is going through difficult times.

Appointment of the Directors-at-Large

The retiring directors and directors-at-large left the room. The names of the proposed new directors-at-large were tabled by President Rubén Kuri. The board voted unanimously to appoint Georges Hage (C.A.T. Group), Bruno Maerten (Entrepose), Iosif Panchak (Stroygazmontazh), Steve Sumner (Lincoln Electric) and John Tikkanen (Shawcor), as directors-at-large.

Nominations to the Committees

Committee leadership was then discussed and the following were appointed:

HSE Committee

Bruno Maerten (Chairman), Mark Barrows, Fatih Can, Oliviero Corvi, Bruno Guy de Chamisso, Georges Hage, Ma Chungqing, Adam Wynne Hughes

New Technologies Committee

Scot Fluharty (Chairman), Mark Barrows, Fatih Can, Doug Fabick, Alexander Kolikov, Brian Laing, Ma Chungqing, Bill Solomon, Jean Claude Van de Wiele

Client Engagement Committee

John Tikkanen (Chairman), Oliviero Corvi, Bruno Guy de Chamisso, Alexander Kolikov, Aqeel Madhi, Iosif Panchak, Bill Partington, Albert Zakhem

Scholarship Committee

Steve Sumner (Chairman), Scot Fluharty, Rubén Kuri, Brian Laing, Iosif Panchak, Atul Punj, Bill Solomon,

Jean Claude Van de Wiele, Albert Zakhem

Convention Location Committee

Adam Wynne Hughes (Chairman), Andy Ball, Doug Fabick, Jan Koop, Bruno Maerten, Mesut Sahin, Bill Solomon

Temporary By-laws & Aide-mémoire Revision Committee

Jan Koop (Chairman), Andy Ball, Scot Fluharty, Georges Hage, Mesut Sahin, Adam Wynne Hughes, Albert Zakhem

Regional Meetings

A one-day regional meeting will be organised for Europe Central between 1 and 4 May, to coincide with the Pipeline Technology Conference in Berlin, Germany.

Next Board Meeting

The next board meeting will be held from 6 to 9 December 2016 in Shanghai, PRC.

New Directors

on the IPLOCA Board

We warmly welcome the following new directors, as a result of the 2016-2017 elections:



Mark Barrows, Director for East & Far East

Mark has worked for McConnell Dowell since 1985 and has been in his current role as Managing Director of Dutco McConnell Dowell since late 2014 looking after operations in the Middle East based out of Dubai. He has more than 30 years' experience

in the global pipeline industry and has successfully delivered a range of oil and gas, water and slurry pipeline projects and associated infrastructure across Australasia, Asia, the Middle East and the United Kingdom. Mark grew up in New Zealand and has a Bachelor's Degree in Civil Engineering from the University of Auckland. He has also completed a Senior Managers programme with the Melbourne Business School. He is married to Hilary and they have two grown up children who reside in Australia. Both Mark & Hilary enjoy travelling, meeting new people and experiencing different cultures.

Fatih Can, Director for Europe Eastern

Fatih was appointed Vice President, Business Development at Tekfen Construction and Installation Co., Inc. in January 2016.



Previously he was Department Vice President, Business Development. He joined Tekfen in 1994, where his first task was the development of the "Iraq-Turkey Natural Gas Export Project". He has been responsible for several international assignments in countries such as Iraq, Russian Federation, Azerbaijan and Kazakhstan. He worked in business development, tendering and operations departments. Fatih started his career in IGDAS (Greater Istanbul City Natural Gas Distribution Company) as project engineer in 1990. He has a BSc and MSc in Petroleum Engineering from Istanbul Technical University and an MBA from Istanbul University International Management Programme. Fatih is married to Ayse; he lives in Istanbul and has a son.



Alexander Kolikov, Director for Europe Eastern

Alexander has been Executive Director of Mezhrregiontruboprovodstoy (MRTS) based in Moscow, Russian Federation, since 1999. In this role his varied responsibilities include staffing and management of budgets, coordination of activities of pipeline construction contractor-companies and ensuring

the company maintains high standards of corporate citizenship and social responsibility. He is married to Olga and he has two children.

Bangladesh, Malaysia and Thailand. He has been married to Heather for more than 30 years and enjoys boating and playing golf.



Brian Laing, Director for Associate Members

Brian is currently Chief Operating Officer CRC-Evans and has been with the company since 1982 when he joined as Sales and Technical support in Edmonton. Shortly thereafter he moved to Houston to assist in R&D efforts. He has held

positions within the company of Welding Engineer, Chief Welding Engineer, Manager New Product Development, Vice President Field Service, President of Automatic Welding and Chief Operating Officer, President Onshore West. Brian's working career started with Dominion Bridge, Montreal Canada at the corporate welding research centre in 1978. He joined Nova, an Alberta Corporation (now TransCanada) in 1979 in Calgary, Canada as a welding engineer. While at Nova he worked with CRC-Evans developing their welding system for the high strength pipe used in Canada, which led him to join the company. Brian holds a Master of Science in Welding Engineering from Cranfield University, Cranfield, UK. He is married to Jill and they live in Houston. They have two sons, one of whom is now working for CRC-Evans in Edmonton, Canada in Business Development. In his spare time, Brian enjoys golfing and woodworking.



Bill Solomon, Director for Associate Members

Currently President and CEO of Vacuworx, LLC in Tulsa, Oklahoma, U.S.A. and Founder and Chairman of The Pipeline and Energy Expo, Bill previously spent 15 years at Johnson and Johnson in sales and marketing with international and

division responsibilities. In 1999, Bill started at Vacuworx, the world leader in manufacturing self-contained vacuum lifting equipment for heavy-duty material handling industries. He founded The Pipeline and Energy Expo in 2009, which is focused on stimulating economic growth in Oklahoma by showcasing energy, utility, and construction businesses. The following year, Bill founded The Eagle Gift Foundation, a non-profit organisation dedicated to supporting community needs in Oklahoma. Bill is a graduate from the University of Colorado. He is married to Christy and has five children.



Bill Partington, Director for America North

Bill is President of Ledcor Pipeline Limited, based out of Edmonton, Alberta, Canada. He joined the company in 2005, as Vice President, Ledcor Pipeline Limited, promoted to Senior Vice President in 2007 and then to Chief Operating

Officer of the Pipeline Group in 2009. Prior to joining Ledcor, Bill held senior positions with other major pipeline construction companies including the Majestic group, the Banister group and Marine Pipeline Construction of Canada (owned by a US entity Murphy Bros., Inc.). Bill's pipeline project experience is substantial. He has led projects with significant degrees of complexity including those traversing multiple terrain types such as winter muskeg, extreme-mountain, prairie, Northern Ontario rock, and green-field sites. He has worked extensively throughout Canada as well as on select projects in the U.S.A., Saudi Arabia,



Albert Zakhem, Director for Middle East & Africa

Albert is Managing Director of Zakhem Construction Nigeria Ltd. and Chief Executive Director of Zakhem International Construction Ltd. He has spent all his career with Zakhem Group of Companies, starting as an administrator and

accounting assistant in Lebanon in 1972 and holding various positions such as Deputy Construction Manager, Lebanon; Project Manager, Tanzania; Vice President Beirut Office; Project Director, Kenya; Project Manager, Nigeria. Albert is Lebanese and speaks English, French, Arabic, Spanish and Swahili. He holds a BBA in Business Administration from the American University of Beirut and a Bachelor of Science in Engineering from the University of Tulsa, Oklahoma, U.S.A. He is married to Ariane.

We also welcome back to the board **Aqeel Madhi** of NPCC (Director, Middle East & Africa), whose biography was featured in the December 2014 IPLOCA Newsletter. A photograph of the full 2016-2017 Board of Directors can be found on page 28 of this newsletter and on our website at www.iploca.com.

Membership Centre

We welcome the following new members to IPLOCA. The information below is also posted on www.iploca.com under the Membership Centre.

New Associate Members



Bhotika Trade & Services Pvt. Ltd. is a pipeline integrity solutions company, marketing high quality pipeline products and services to various oil & gas sector companies / construction industries for over 35 years. They are major suppliers and service providers to government, private limited and public sector companies, consultants & pipeline contractors and have been associated with most of the major pipeline projects. With their technical expertise they are able to make recommendations to their customers to use the right products for their requirements & expectations. The group has strategically located offices in New Delhi, Kolkata & Mumbai.

Bhotika Trade & Services Pvt. Ltd.

SF-11, 2nd Floor, Vasant Square Mall

Sector-B, Vasant Kunj

New Delhi 110070

India

T +91 11 40000222 F +91 11 40000272

sales@bhotika.com www.bhotika.com



CHETRA - Mining Machinery is a distributor of the leading Russian machinery building company and M&I Group Concern "Tractor Plants" which manufactures equipment under the brand name CHETRA. M&I Group Concern "Tractor Plants" has a wide product range for the oil and gas industry: pipelayers (20-105 tons lifting capacity), heavy duty crawler bulldozers (9-65 tons), excavators (20-45 tons), dump trucks (35 tons lifting capacity), wheeled machines – loaders etc. Machines with the CHETRA brand were used in the pipeline construction of major Russian oil and gas projects: Eastern Siberia - Pacific Ocean (ESPO); Sakhalin-2, Blue Stream; Vankor-Purpe; Bovanenkovo. M&I Group Concern "Tractor Plants" has taken part in many international projects in Algeria, Kazakhstan, and India.

CHETRA – Mining Machinery

2, Berezovaya Rosha Street

Vurmankassy Village, Cheboksary Region

429526 Chuvash Republic

Russian Federation

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kvl@tplants.com www.tplants.com/en



TDC International (TDCI) focuses on various specialty industrial constructions using glass fibre reinforced plastics (GRP) and is headquartered in Luzern, Switzerland with a production facility in Germany. Their flagship pipe coating products (pau wrap[®]) offer extreme protection from abrasion, corrosion, temperature, physical force and chemicals. These products are used for the installation and construction of various types of pipelines, in particular where underground trenchless methods are involved. TDCI's coating products have been installed on pipelines for the transportation of oil, gas, various chemicals, refined petroleum products, water and wastewater. TDCI's customers include large gas network operators, energy utilities, oil and gas companies, steel pipe manufacturers, and many other industrial players.

TDC International AG

Alpenstrasse 6

6004 Luzern

Switzerland

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info@tdc-int.com www.tdc-int.com

New Corresponding Members



Trans Adriatic
Pipeline

Trans Adriatic Pipeline (TAP)

will transport natural gas from the giant Shah Deniz II field in

Azerbaijan to Europe. The 878 km long pipeline will connect with the Trans Anatolian Pipeline (TANAP) at the Turkish-Greek border at Kipoi, cross Greece and Albania and the Adriatic Sea, before coming ashore in southern Italy. TAP's routing can facilitate gas supply to several south eastern European countries, including Bulgaria, Albania, Bosnia and Herzegovina, Montenegro, Croatia and others. TAP's landfall in Italy provides multiple opportunities for further transport of Caspian natural gas to some of the largest European markets such as Germany, France, the UK, Switzerland and Austria. TAP will promote economic development and job creation along the pipeline route; it will be a major source of foreign direct investment and it is not dependent on grants or subsidies. With first gas sales to Georgia and Turkey targeted for late 2018, first deliveries to Europe are estimated to follow early 2020. TAP's shareholding is comprised of BP (20%), SOCAR (20%), Snam S.p.A. (20%), Fluxys (19%), Enagás (16%) and Axpo (5%).

Trans Adriatic Pipeline (TAP)

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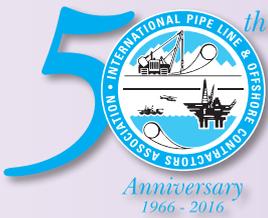
With more than 60 years' experience, **TransCanada** is a leader in the responsible

development and reliable operation of North American energy infrastructure including natural gas and oil pipelines, power generation and gas storage facilities. TransCanada operates a network of natural gas pipelines that extends more than 90,300 kilometres (56,100 miles), tapping into virtually all major gas supply basins in North America. TransCanada is one of the continent's largest providers of gas storage and related services with more than 664 billion cubic feet of storage capacity. A growing independent

power producer, TransCanada owns or has interests in over 10,500 megawatts of power generation in Canada and the United States. TransCanada is developing one of North America's largest oil delivery systems.

TransCanada Corporation

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www.transcanada.com



IPLOCA 2017 Membership Fees

Membership fee invoices were emailed at the end of November and the payment due date is 2 January 2017. Please note that paper copies of invoices will only be mailed upon request. Membership certificates will be sent out in January.

If you have any questions please contact IPLOCA's Accounting Manager sarah.junod@iploca.com

Member News

Advanced Version of Performer GPL 980 Released by Europipeline Equipment

Europipeline Equipment has announced the release of a new version of its pipelayer Performer GPL 980. It is now equipped with a more powerful engine Tier 4 Caterpillar, which guarantees a higher performance in all climatic conditions and a saving in fuel consumption. It also has a sturdier and more powerful hook in the rear. With the increased number of sensors of the engine, a new dedicated software has been commissioned to manage a higher number of parameters with more detailed and complete data on the cockpit screen. Visibility has been

improved for the operator, by making the hood shorter and lower and by raising the driver's seat and designing a wider window area. More options are now available to improve operator comfort and performance throughout the working day such as a closed cabin with air conditioning for desert areas and a closed and insulated cabin with an additional heating system designed for arctic regions.



Tekfen Sets New Automatic Welding Record

On Spread 6 of Lot 3 of the Trans Anatolian Gas Pipeline (TANAP) Project, the Tekfen Construction & Installation Co., Inc. project team has set a world automatic welding record by connecting, in a single day, 146 pipes of 56" diameters and welding 145 joints with one welding crew. The TANAP Project is a 56" and 48" pipeline system of 1805 km. The total length of Lot 3 is around 509 km and construction is being performed simultaneously by two spreads, namely Spread 5 and Spread 6, covering equal lengths. In the construction of the TANAP pipeline, Tekfen chose to use CRC Evans' automatic welding system for the mainline welding, which includes one internal welding machine and five P625 double torch external welding stations. In addition, the TANAP Pipeline is constructed with pipes supplied with a factory applied three-layer polyethylene (3LPE) coating system with welded field joints. The field joint coating system is selected as spray applied polyurethane coating system on the basis that the system must provide the corrosion and mechanical protection for the 25 year design

life of the pipeline, and be suitable for application under field conditions. Tekfen works with Pipeline Induction Heat (PIH) for the provision of the automated equipment and supervision services related to the installation of the field joint coating system.

GRTgaz's Role in Largest Mexican Energy Infrastructure Project



GRTgaz is finalising the commissioning phase of Los Ramones II Sur in Mexico achieving the second phase of the largest energy infrastructure projects in Mexico's history. The South portion will lead to the commissioning of a 42" diameter pipeline spanning 291.7km from San Luis Potosi to Apaseo El Alto, Guanajuato and will include a compression station and five metering stations. This section of the pipeline will have a designed capacity to deliver 1.42 billion ft³ a day of natural gas.

Uniper Technologies Continues to Support TAP (Trans Adriatic Pipeline) Project's Implementation

As "Technical Service Provider East" Uniper Technologies GmbH (then named E.ON Technologies GmbH) has been in charge of the provision of FEED documentation for the TAP onshore part. Subsequently, Uniper prepared the provision of technical tender documents. Since 2015, under a new contract, Uniper provided permit engineering and supports the Integrated Project Management Team of TAP. During the development phase, the project team had to cope with the specific challenges of multinational projects: technical system design, design of the complete onshore part of the pipeline system as well as environmental and social impact assessment studies. Provision of the technical basis for land easement and acquisition plus permitting required the establishment of strong local organisations in the three countries involved Greece, Albania and Italy. Small, multidisciplinary teams have been established in all three countries with work

being coordinated by discipline managers from Uniper in Germany. The main focus of management was the provision of high level services and unified standard of prepared documentation reflecting the requirements of the EBRD. The central internet based document control centre enabled quality control of the documentation produced which to a great extent required accurate translation into the local languages. The main challenge to overcome were highly different conditions in terms of infrastructure, administration, economic development and culture needed to be balanced by sound communication and collaboration within the organisation and towards all stakeholders. These challenges were met by the team and supported strongly the selection of the TAP project for implementation in the Southern Corridor. Currently, the project is in the construction phase performed by EPC contractors responsible for different lots and selected in the open tender procedures managed by TAP based on the technical documentation produced in the development phase by Uniper.

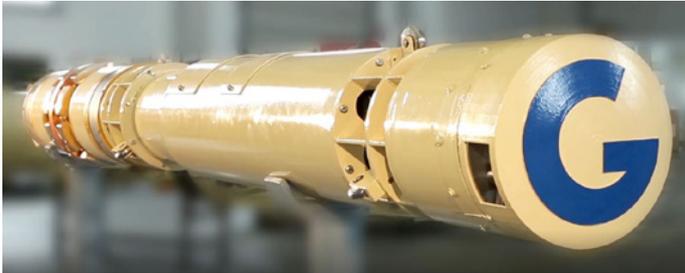
Tesi S.p.A. Announces Two New Products in Induction Heating for Pipeline Construction

The first product is the LHG low frequency inverter, representing a revolution in the pipeline induction heating world (from preheat to heat treatment). It strongly reduces the skin effect during pipe heating, leading to a higher permanence of the heat into the material, thanks to its low frequency design. Due to its reduced size, compactness and easier handling LHG provides a higher power/volume ratio, delivering excellent performance for in-field pipeline operations. The stainless steel enclosure improves the inverter's resistance in saline and harsh environments and features an insulation-monitoring device. The second innovation is a cutting-edge demagnetisation system, able to ease welding operations in pipeline construction. Working differently to conventional systems, Tesi Demag can provide a demagnetisation effect penetrating through



the entire pipe wall thickness. Integrated with Tesi generators, magnetism values can be detected by using the same remote control provided with the generator, which calculates the required current and activates the Demag routine using Tesi standard preheat ring coils.

Goriziane Group Develops V-ILUC – Pneumatic Internal Line-up Clamp



Goriziane Group's technical team developed an innovative project which led to the manufacture of a new internal line-up clamp. The company has delivered several of these machines which have joined important projects throughout the world, from Europe through the Middle East to the Far East. In addition to the classical features, this new product includes a video laser tool and a high-resolution digital camera which provides instant and thorough inspection of the internal weld root pass. If a defect is detected, it can immediately be removed saving time and costs in the production workflow. The laser scan is managed by an innovative web server HMI developed by Goriziane's engineers. The wireless connection allows self-test handling through remote control support. The algorithm performs laser scan and video camera reading by measuring welding scan; finally, it produces internal section reading and welding analysis.



Ritchie Bros. Sells USD 31+ Million of Pipelayers in Columbus, OH

In September, Ritchie Bros. held its largest-ever pipeline construction

event, selling USD 76+ million of equipment over two days in Columbus, OH, U.S.A., including 175+ pipelayers sold for USD 31+ million. More than 3,600 bidders from 52 countries registered to bid in the auction. Approximately 79% of the equipment was purchased by buyers from outside Columbus, including international buyers from Singapore, South Africa, and The Netherlands. As well as the massive selection of pipelayers, the auction also featured 135 excavators, 110 dozers, 235+ truck tractors, 210+ trailers, and much more. Specific equipment

highlights included:

- 15 Caterpillar 583T crawler pipelayers sold for a combined USD 7.62 million
- 14 Caterpillar 594H crawler pipelayers sold for a combined USD 3.795 million
- Five 2008 Caterpillar 572R series II crawler pipelayers sold for a combined USD 1.725 million
- Two 2008 Caterpillar 587T crawler pipelayers sold for a combined USD 1.4 million.

New Appointments at Volvo Construction Equipment

With over 20 years' experience in the construction industry, including senior positions within Volvo CE's global functions, the sales organisation and within the dealer network, Carl Slotte has been appointed as President of Sales Region EMEA. In his new role, Carl will be responsible for meeting the diverse needs of customers in the strategically important EMEA region and strengthening Volvo CE's market position. Carl succeeds Tomas Kuta, who was appointed Senior Vice President of Global Sales for Volvo CE in June 2016.

Having held a number of senior roles in the automotive industry Patrik Lundblad has been appointed Senior Vice President, Technology, at Volvo Construction Equipment. He has worked for the Volvo Group for 15 years, most recently as Senior Vice President of Volvo Group Purchasing. Patrik will be responsible for leading the development and delivery of Volvo CE's global technology strategy.

PPS Successfully Completes EPC Project in Lithuania

PPS successfully completed an EPC project which promotes Lithuania's independence with respect to its gas supply. The LNG tanker Independence with a regasification plant was permanently moored at the port of Klaipeda. Here liquefied



gas is converted back to its gaseous condition and then fed into the DN 700 pipeline system through two loading arms. Because no above-ground pipeline parts were allowed to be laid in the Curonian Lagoon, the DN 700 gas pipeline was drilled from a small island with a 400-tonne horizontal directional drilling (HDD) rig until underneath the jetty. The prefabricated pipe string was pulled and positioned in the water with side booms and ships, and afterwards connected to the drill string by floating cranes and divers and pulled in according to plan. Water depth: 12 meters, outside temperature: -10°C. After completion the drilling rig was turned around and the first of two 2300m long borings to the mainland began. The first drilling for the later pull-in of the fiber-optic cable proved to be much more difficult than expected. The first drill bit was worn out already after 200m and after 1960m the pilot pipe broke. By producing special mining tools, the so-called Lucky Hook, the drill string could be retrieved, the borehole successfully concluded, and the steel cable pipe casing pulled in. These experiences proved to be valuable for the second boring (gas pipeline). The 15 km long DN 700 onshore gas pipeline with two valve stations and one metering station were constructed in parallel to the boring works and completed on time.



which runs through the Yamal Peninsular to Baydaratskaya Bay, the Mordy-Yakha and Yundy-Yakha rivers were provided with crossings. The length of the Mordy-Yakha river crossing is 1,986 m and includes two strings: the basic string (473 m) and backup one (470 m). The greater part of the pipeline is equipped with the ring thermal insulation, thus its diameter is nearly 1,620 mm. This was a challenging project since the company could work only in winter because of permanent frost conditions and being so far north the region imposed certain restrictions, such as the lack of infrastructure and the remote location of the logistics bases. Nevertheless, the works were completed on time. The SGM Group has also been contracted for the construction of the Baydaratskaya and Intinskaya compress stations, located at the Bovanenkovo – Ukhta gas pipeline. These stations are scheduled to be completed in 2016.



Michels adds Microtunneling Manager

Trenchless construction veteran Brenden Tippets has joined Michels Corporation as Microtunneling Manager. He has more than 20 years of experience in wide-ranging aspects of heavy civil construction, including significant experience

in microtunneling, tunneling and pipejacking. His specific areas of expertise include design-build trenchless projects, extensive contaminated ground water remediation, and construction in deep and difficult soil conditions in dense urban settings. As Microtunneling Manager, Tippets will guide the continued growth of microtunneling among Michels' repertoire of trenchless construction services.

Stroygazmontazh Completed Construction of the Bovanenkovo – Ukhta Trunk Gas Pipeline

Stroygazmontazh has completed the installation and construction works related to the Bovanenkovo – Ukhta Trunk Gas Pipeline System – 2nd String Project for Yamalgazinvest CJSC. The subcontractor of Stroygazmontazh is Lengazspetsstroy JSC. The company has constructed seven sections of the pipeline, which is 197 km in total. Over 800 people and 350 units of equipment were engaged in the construction. During the construction of this pipeline,

Fluor's Role in Tengiz Oil Expansion Project in Kazakhstan

In July 2016 Tengizchevroil LLP (TCO) sanctioned KPJV, a joint venture between Fluor, Kazakh Institute of Oil and Gas JSC, Engineering Company KazGiproNefteTrans LLP, and WorleyParsons, to provide detailed engineering, procurement and construction management support services for the Future Growth Project - Wellhead Pressure Management Project. The joint venture is working as part of an integrated team with Tengizchevroil on the project that is the next expansion of the Tengiz oil field in western Kazakhstan. Fluor booked its share of the contract value in the third quarter of 2016. The front-end engineering design (FEED) and engineering, procurement and construction management activities phase of this expansion project was awarded by Tengizchevroil to KPJV in 2011. The FEED is complete and detailed engineering is well underway. The project team is also engaged in long-lead procurement and early construction works for key project infrastructure at the Tengiz site. During peak construction, the project is expected to employ approximately 20,000 construction workers. First oil is planned for 2022.

Paris Convention Retrospective

Our 50th Anniversary Convention, attended by around 600 participants from 33 countries, was the first one to be held in Paris, the city where the association was first established as the International Division of the Pipeline Contractors Association of the U.S.A. on 20 June 1966.

The week included a three day tour programme, two Open General Meetings, and numerous social functions, including a special Final Banquet at the Lido. Tours were organised to many of the well-known historical sites and museums, such as Chantilly Castle, the Palace of Versailles, Montmartre, the Eiffel Tower and the Louvre and Orsay Museums. Details on the presentations made during the business part of the week can be found on page 16.

We look forward to seeing everyone next year in **Mexico City** for our 51st annual convention from **25 to 29 September, 2017**.

Post-convention Questionnaire

We are grateful to those participants who took the time to complete and submit their post-convention questionnaires. Your feedback is important to help us tailor future conventions, and to give participants the opportunity to express their opinion on any part of the convention.

To give you an idea of the feedback, here are some insights. We were pleased to see a slight increase in the number of first-time attendees this year, reaching nearly 20%

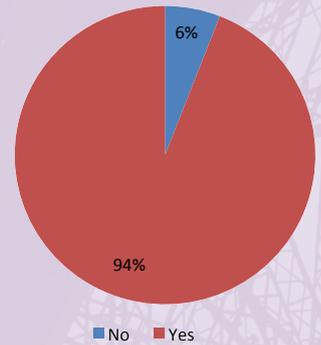
Event Ratings



of the total number of delegates. Overall the convention programme was very well rated. (see above events ratings)

Although, 61% of respondents rated the speakers as excellent or good, suggestions were made to find ways to improve on the quality and variety of the topics presented. Just over half the respondents downloaded the convention app and found it useful. Some ideas were submitted to help us improve on its use for future conventions. Regarding the hotel facilities, 43% of respondents rated the hotel guest rooms as satisfactory and a further 22% as good or excellent. Both the meeting rooms and the assistance from hotel staff were rated more highly: 56% and 54% respectively.

Ability to Network





Maats Pipeline Equipment Golf Tournament

Maats Pipeline Equipment would like to thank everyone who played in the 5th Maats Pipeline Equipment golf tournament, which was held at Le Golf National, Paris (the host venue for the Ryder Cup 2018).

The appearance of wild hogs at holes 7 and 14 only added to the enjoyment of the day. The tournament was a great success and your continued support is very much appreciated. Maats Pipeline Equipment looks forward to seeing you at the 2017 IPLOCA Convention in Mexico City and we hope you will join us for another great day on the golf course.

Congratulations to all trophy winners, namely:

First Place: Team 3 - John Leask, Paul Rebello

Second Place: Team 13 - Scott Summers, Tim Zboya, Matthew O'Connell, John Tikkanen

Third Place: Team 12 - Doug Fabick, Tony Fernandez, Cleve Hogarth, Mick Wilson

Nearest the Pin Ladies: Enid Sandberg

Nearest the Pin Men: Cleve Hogarth

Longest Drive Ladies: Elisabeth Senfter

Longest Drive Men: Scott Summers

Appreciation to Retiring Master of Ceremonies

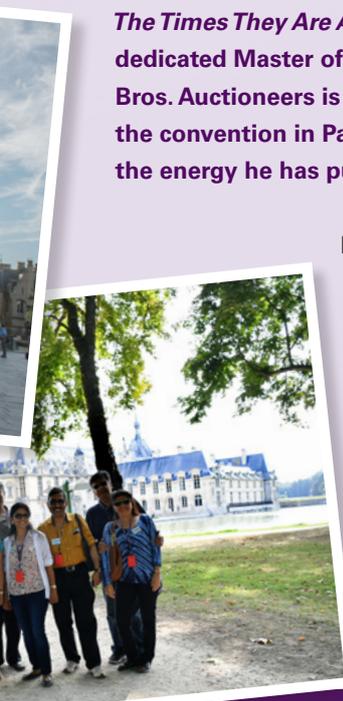
*The Times They Are A-Changin'** and our well-known and dedicated Master of Ceremonies, Butch Graham of Ritchie Bros. Auctioneers is retiring, but not without receiving, at the convention in Paris, a token of our appreciation for all the energy he has put into IPLOCA over the last 25 years.

Did you know that, although Butch took up his MC role in Berlin in 2004, he first attended an IPLOCA convention in 1990 (in Munich). In Butch's own words, "I do hope that you pass on to the membership what an honour it has been, and what the wonderful friendship that Bonnie and I have experienced with so many of the IPLOCA families has meant to us. Serving on the board, serving as



'their personal Emcee' has been the highlight of my career." Butch and Bonnie will now be able to reminisce about IPLOCA whilst enjoying a glass of 2004 Bordeaux in a pair of specially engraved wine glasses!

*Title of song written by Bob Dylan, 1964













Guest Speakers at the Paris Convention

Many thanks to our guest speakers for their contributions during the Open General Meetings on Thursday and Friday.

A wide variety of subjects were covered, including the challenges associated with and the lessons learned from two major gas pipelines in Europe and Mexico; an overview of global economic conditions; a 2016 update on the business trends

in the international upstream sector; case studies for success or failure of operator & contractor alliance use; and, delivering economic benefits for future generations through pipeline mega projects. The opening speaker shared her perspective of the changing face of Paris through 2,000 years of architecture. Copies of their presentations are available at www.iploca.com/convention



Marion Prouteau
Founder & Director, RobertPINK agency
The Changing Face of Paris Through 2,000 Years of Architecture



Ron Ottaway
Deputy Project Director & Project Manager, Trans Adriatic Pipeline AG
Building the Trans Adriatic Pipeline Project - European Leg of the Southern Gas Corridor



Laura Speake
Regional Chief Economist - Energy & Transportation Caterpillar
Global Economic Conditions with Special Consideration to the Oil & Gas Outlook



Eric Courtalon
Project Technical Director, GRTgaz
The Los Ramones Sur Pipeline Project in Mexico - Lessons Learned



Jonathan Green
Managing Director, Bonmont Energy Sàrl
Business Trends in the International Upstream Sector in the Current Oil Price Environment - 2016 Update



Mark Bridgers
Principal, Continuum Capital
Operator and Contractor Alliance Use in Pipeline Construction: Case Studies for Success and Failure



Larry Bolander
Vice President, Sales & Marketing, Energy & Chemicals, Fluor Corporation
Pipeline Mega Projects: Delivering Economic Benefits for Future Generations

Presentation of Awards in Paris

Three awards were presented in Paris – further information on the entries is available on our website, along with the list of submissions received.



The 2016 IPLOCA Health and Safety Award

sponsored by Chevron

The award is in recognition of members' initiatives aimed at improving health and safety in the pipeline industry.

This year's award was given to **Max Streicher GmbH & Co. KG aA**, represented by Giovanni Muriana, in recognition of their Low Jump - High Risk! -The Jump Scales Initiative. The Adjudication Committee made their choice because of the innovative, creative and very visual way the company had decided to educate workers on the risks of jumping.

Giovanni Muriana said they felt really proud to receive this award for the second year in a row. "We are reinforcing the safety culture in the company and diffusing it to all the companies of the group. Safety is the starting point for everyone. We need to reinforce the safety culture of employees all the way from the shop floor up to top management."



Waldemir Monteiro Queiroz, John Stuart-Robertson, Bruno Guy de Chamisso, Giovanni Muriana

The runners-up were

- **Construtora Norberto Odebrecht S.A.**, represented by Waldemir Monteiro Queiroz, for their Emergency Operation Centre, an innovative idea to gather all information into a unique Operation Emergency Centre.
- **SPIECAPAG Lucas JV**, represented by Bruno Guy de Chamisso and John Stuart-Robertson, for their "Safety Map"; a very simple and innovative way to depict the different activities, metrics of accomplishments and location of tasks.



The 2016 IPLOCA Environmental Award

sponsored by Shell

The award is presented every second year in recognition of an initiative aimed at improving the living conditions of the people in communities local to and impacted by pipeline industry work.

The Environmental Award Adjudication Committee decided to award **Consolidated Contractors Group S.A.L.**, represented by Rashid Shuhaiber, for their Portable Green Technologies project, because it demonstrates high management commitment to protect the environment, it shows a big investment to produce clean energy and includes a very good waste management programme. Najib Khoury, CCC Group VP commented, "We were extremely pleased with this result. We will display the award with pride and will ensure that everyone in the company understands the importance of taking care of the environment."

The Committee also named one runner-up:

Saipem represented by Armando Favi, for the design and construction of the Chinipas Slope pipeline crossing. Based on a geomechanical study, Saipem decided to use a raise borer to avoid a huge visual impact, significant earth moving, and a steep slope installation.



Armando Favi, Loek Vreenegoor (Shell), Rashid Shuhaiber



The first IPLOCA Excellence in Project Execution Award

This award will be given every second year in recognition of an outstanding project execution in onshore and/or offshore pipeline, or facilities construction.

The Excellence in Project Execution Award Adjudication Committee decided to award it to **McConnell Dowell Group Limited**, represented by Rodney Blackwell, for the Fourth Transmission Pipeline Stage 2, a complex, fast-tracked project completed in a challenging, densely populated environment.

Rodney Blackwell thanked customer PTT Public Company Limited, construction partner CCC and his project team: "The collaborative relationship formed between McConnell Dowell and PTT was the foundation of success for the project. It allowed us to align our objectives, present as a seamless team to the local community, and address every challenge encountered quickly and effectively." "Our project team was outstanding. Along with our partner CCC we successfully managed a peak workforce of over 2,800 people spread over more than 50 concurrent worksites to deliver the project safely and to a high quality standard. The results showcase the skill, commitment and dedication of all involved."

The runners-up

In recognition of members' commitment, the Committee made one further award to three runners-up:

- **McConnell Dowell Constructors (Aust) Pty Ltd** and Consolidated Contracting Company Australia Pty Ltd (CCC) JV, represented by Mark Barrows and Zahi Ghantous, for the Australia Pacific LNG Pipelines Project, one of the largest, longest, and most complex pipelines constructed in Australia.
- **Punj Lloyd Group**, represented by Atul Jain, for the



Atul Punj (IPLOCA President), Atul Jain, Koos Van Oord, Rodney Blackwell, Zahi Ghantous, Mark Barrows, Jean Claude Van de Wiele (Chairman, New Technologies Committee)

Shah Gas Development Project Package 1, a challenging project due to high dunes, high temperatures, and the presence of H₂S.

- **Van Oord Offshore bv**, represented by Koos Van Oord, for the Tetney Sealine Replacement Project, for which a string barge has been used to overcome restricted access and high tidal range, among other constraints.

Congratulations to all those who participated in the 2016 awards and we encourage all members to prepare and submit entries for 2017, which, in addition to the IPLOCA Health & Safety Award sponsored by Chevron, will include the IPLOCA New Technologies Award sponsored by BP and the IPLOCA Corporate Social Responsibility Award sponsored by Total. Information is available on www.iploca.com.

Health, Safety and the Environment

The HSE Committee met at the Crowne Plaza in Geneva, to coincide with the Fall Plenary Session of the Novel Construction Initiative.

One of the agenda points was to review the forms and the reports for the **health & safety and environmental statistics**. Since environmental statistics submissions are now also a requirement of membership for all Regular Members, the idea of merging the two questionnaires, and the two reports, was discussed. Certain modifications

will need to be made in order to achieve this. Invitations to submit statistics will be e-mailed end of January / beginning of February for an early March deadline.

The Health & Safety Workshops are an important part of the HSE Committee's efforts to promote health & safety amongst IPLOCA members and are greatly appreciated by participants. Following input from the questionnaire sent out in July by the Committee Chairman Bruno Maerten, the Committee reviewed how to better promote these events and encourage

higher attendance, but also how to spread the word about the importance of health, safety and environmental issues. Ideas that were discussed include a specific HSE presentation during Regional Meetings, a video link-up during the workshops for those who cannot attend, and moving the event to coincide with other IPLOCA meetings, in order to optimise travel time and costs for certain participants.

It was decided that the **2017 Health & Safety Workshop** will be held in October and further information regarding this event will be published on our website and in future newsletters.

It was noted that Dinç Senlier had reached a milestone of 10 years working with the HSE Committee. Thank you Dinç, for continuing to offer your experience and commitment to this Committee!

Health & Safety Shared Experiences Platform

The Committee would like to thank all members who have assisted in creating and launching the Health & Safety Shared Experiences Platform, and all those who have enriched it through their contributions. We encourage people from the industry to share their

experiences and also invite you to learn from the experiences of others. All documents are grouped according to specific categories and under "Lessons Learned" or "Safety Alerts".

Take a look at www.iploca.com/safetyplatform. Here is the list of the latest documents uploaded, at the time of publication:

Lessons learned:

- **Electricity:** Overhead cables
- **Grinding - Welding:** Hand held grinders
- **Health:** Dengue fever
- **Slips, trips and falls:** Fall from the platform of a truck
- **Transportation:** Motor vehicle incident
- **Work at height:** Work at height

Safety alerts:

- **Hazardous substances:** Pressure hose failure
- **Hot work:** IMPP purging incident
- **Lifting operations:** Broken rope during lifting of a pipe; Crane tip-over
- **Other:** IMPP purging incident; Pressure hose failure
- **Transportation:** Transportation of pipes on a 14 degree slope
- **Weather conditions:** Work in hot climates

New Technologies Committee



Novel Construction Fall Plenary Session

On 25-26 October 2016, 56 delegates from all over the world participated in the Novel Construction meeting at the Crowne Plaza hotel in Geneva.

At this plenary session, the newly developed IPLOCA Safety Shared Experiences Platform that showcases safety

alerts and lessons learned was presented by Sarah Junod (IPLOCA). (See the detailed description on page 16 of the September IPLOCA Newsletter). Presentations were then made by IPLOCA members on their novel products and initiatives with the aim of improving pipeline design and construction. These included the following guest speakers:

- **PUPP Spacer** – Cees Rombouts, RKT International B.V.
- **New Field-Applied Anti Corrosion System** – Thomas Löffler, DENSO GmbH *
- **How Contractors May Rely on International Treaties to Protect Their Business and Strategically Manage Difficult Market Conditions** – Virginie Colaiuta, Pinsent Masons LLP
- **The Use of Structured Pipeline Pillows Help Control Pipeline Ovality** – Geoff Connors, PipeSak *
- **Automation in Field Joint Coating** – Adam Wynne Hughes, Pipeline Induction Heat *
- **New Trenching Technologies and Services for Pipelines** – Flavio Villa, TESMEC S.p.A.

Articles on the initiatives marked with an * follow this report and copies of the presentations are available on www.iploca.com/novelplenarysession.

“The Road to Success” 4th edition

The Road to Success, which will now be available as an app to IPLOCA members only, was presented during the meeting by Emma Hachfeld (IPLOCA). It is currently being tested and edited by each working group.

Updates on its official launch to all IPLOCA members will be posted on the IPLOCA website and an email sent to all members.

The working groups and their leaders are as follows:

- **Bending:** Geert Dieperink (Maats BV)
- **Coatings:** Frits Doddema (Seal For Life)
- **Earthworks & Crossings:** Paul Andrews (Fluor)
- **Environment:** Sue Slijivic (RSK)

- **Health & Safety:** Alain Gauthiez (SPIECAPAG)
- **Logistics:** Bruno Pomaré (SPIECAPAG)
- **New Trends and Innovation:** Zuhair Haddad (CCC)
- **Planning & Design:** Criss Shipman (Gulf Interstate Engineering)
- **Pre-Commissioning:** Vincenzo Calabria (SICIM)
- **Welding & NDT:** Jan van der Ent (Applus RTD)

Work on additional content has already started. If you would like to participate, please contact the appropriate group leader or Emma Hachfeld (emma.hachfeld@iploca.com). We would like to thank all contributors and look forward to meeting you again in April 2017. The exact dates and venue will be confirmed on our website and via email.

New Field-Applied Anti-Corrosion System for Pipelines with Moist Surfaces.

Thomas Löffler and Michael Schad, DENSO GmbH

The newly launched system VivaxCoat[®] by DENSO GmbH, Germany, is designed for corrosion protection of wet surfaces and fittings of steel pipelines. It can be applied to pipes under load, in order not to shut down or reduce the pressure of these pipes.

The VivaxCoat[®]-System, withstands high mechanical loads and impacts, as is required for the highest mechanical stress class “C” of the worldwide leading standard EN 12068. The system offers a very good resistance to salt-containing atmospheres and soils. Neither of the system components contains solvent or needs time for curing

or drying, thus enabling the work to progress quickly if a self-amalgamating PE/Butyl-Tape e.g. DENSOLEN[®]-AS50 is used. The polymeric tape provides not only a mechanical protection, it serves as well as a second corrosion protection barrier. The polymeric tape will amalgamate with the special designed MT Petrolatum tape providing a cohesive break during a peeling test.

Field Cases

From 6 to 10 July 2015, the corrosion protection coating of the gas pipeline of the German operator ONTRAS Gastransport GmbH near Espenhain, Eastern Germany had to be rehabilitated (Figure 1). The pipeline was constructed in 1994. It has a nominal diameter of 900 mm (36”) and transports about 400,000 to 600,000 m³ of gas per hour. The pressure of the gas is about 55 bar. However, the surface of the pipeline was wet due to the cold gas flow through the pipe in combination with relatively high ambient temperatures. Hence, a corrosion prevention system had to be chosen for wet surfaces.



Figure 1: Application of a) DENSO[®]-AQ Primer and b) of DENSO[®]-MT Petrolatum Tape c) VivaxCoat[®] System comprises of: DENSO[®]-AQ Primer, DENSO[®]-MT Tape and mechanical protection with 3-ply DENSOLEN[®]-AS 50 Tape

More importantly, the pipeline had to stay in operation. The construction company VORWERK from Halle, Germany chose the system VivaxCoat® with the self-amalgamating PE/Butyl-Tape DENSOLEN®-AS50 as the outer mechanical protection layer. After a fast and easy installation, both ONTRAS and VORWERK were very satisfied with the application and technical performance of VivaxCoat®. An additional proven solution in rehabilitating the coating of cooling pipes is the recent project of “Inselspital”, a hospital in Bern, Switzerland (Figure 2). Due to condensation of humidity on the cold pipe surface, corrosion was detected on the pipes. With the use of the coating system VivaxCoat®, the pipeline could be kept in use and the hospital services run without restrictions during the rehabilitation works. Further, a functional thermal insulation was applied above the corrosion prevention coating to minimise energy losses.

Conclusion

The evaluation of an appropriate rehabilitation system for corrosion prevention on pipes and pipelines with moist surfaces depends on many specific circumstances and has to be chosen in coordination with the material and onsite requirements. Furthermore, it has to be suitable for the relevant and unique project conditions, and needs to take into account an easy and economical way of applying the system. The newly developed system VivaxCoat® is designed to combine the ease of application, excellent mechanical resistance and outstanding corrosion prevention for small and large scale rehabilitation projects. It is developed specially for application on wet surfaces and therefore, on lines which remain in service. Due to the flexibility of the system, it can also be used for fittings and other irregular



Figure 2 a) Corrosion of a cooling pipeline due to condensation of water on the cool surface b) During rehabilitation works after the application of DENSO®-AQ Primer and DENSO®-MTTape.

shaped geometries, coated with a condensate film. With VivaxCoat® the costs of rehabilitation are reduced to a minimum, since shut downs or pressure reductions of pipelines are no longer required.

Automation

in Field Joint Coating

Adam Wynne Hughes, President of CRC Evans Offshore and a former President of IPLOCA

The Novel Construction Initiative of IPLOCA has driven our thoughts to better ways of building the pipelines of the 21st Century. The 2016 October session once again allowed for discussion on innovation in our industry. We are required to think smarter and build more efficiently.

Our industry varies from onshore to offshore and from production to distribution, but all sectors have challenges and many of those challenges focus on two key areas:

permits and costs. Within permits the industry looks for environmental protection. Whilst this concentrates on the aspects of disruption to the local environment during build, we are all conscious of reducing the environmental nuisance of noise, dust and waste. We also look to the long term health and welfare of those exposed to or carrying out the works. When we look at costs and efficiency, we can look at rework due to quality control issues along with material usage combined with speed of production.

My presentation focused on automation in the application of external field joint coating (FJC). The introduction included the basic types of FJC along with the differences in application: for onshore pipelines the FJC team move but in offshore situations the FJC team stay still and the pipe moves. FJC is made up of blast cleaning the substrate and



RAPTOR Automated heat + FBE coating

heating and applying the anticorrosion protection layer. We focused on the need to automate the installation process of the FJC system:

Automation = Repeatability + Quality + Long term Integrity

The use of automation eliminates human error; increases productivity by decreasing cycle times; obtains repeatable cycle times; along with repeatable quality and increased control of application parameters. Pipeline Induction Heat (PIH) was awarded a contract from Saipem on the South Stream Project and this called for quad joints to be coated with FBE and then a HSS. Canusa won the contract to supply and install their HSS using their Intellicoat system. This is another example of automation development in our industry. Both parties worked alongside each other. PIH assessed the needs as:

- Fully contained units to eliminate dust and significantly reduce noise both of which support the environmental priorities;
- Fully automated units to eliminate human error and improve repeatability of cycle;

- Minimisation of work stations with multifunctional units to allow less operator error in changing to the next station and less operators.

The PIH solution was a range of units that would be based on the same cabinet design that can move and be adjusted to suit the pipe moving into the station. The pipe moves through the centre of the machine. The solution was a fully automated, closed cycle blast unit, called SABRE along with RAPTOR a fully automated, combined heat and coat unit for the application of FBE (one station), which includes automated heating throughout the application of FBE. The complexities of design meant that 3D modeling was used to engineer coating deposition heads for optimum thickness control and this also required the use of 3D printing in the manufacturing of the units.

HYDRA is fully automated, quenching units in two versions that allow high pressure cleaning of the pipe before blasting operations. The quench unit makes use of an initial air quench.



HYDRA -Automated water jet cleaning

Controlling Pipeline Ovality

Geoff W. Connors, P. Eng, President, PipeSak Incorporated

In our current economic climate, managing costs for new pipeline construction projects has become a high priority for owning companies. Advances in materials science have allowed engineers to use less steel and significantly lower the cost of pipe, however, using this thinner walled pipe comes with some inherent risks.

One major concern is the increased susceptibility to ovality – the degree to which a pipeline deviates from a perfect circle. This risk can occur in any stage of pipeline construction, but the risk is highest during the installation and backfilling phases, when the new pipe can be exposed to some extreme forces. Seemingly small loads can cause big problems. Fortunately, there is a solution.



Figure 1

PipeSak Pipeline Products and Services, in conjunction with independent testing and research facilities, has been evaluating the use of structured pipeline pillows during the construction phase to help reduce the risk of ovalisation. A study was undertaken that compared the ovality resistance provided by traditional pipeline support methods, such as sand bedding, to that of a newly designed class of product called the Structured Pipeline Pillow (SPP). Unlike traditional bedding, the SPP is an engineered solution developed to provide excellent, long term pipeline support (Figure 1).

The study modeled the behaviour of steel pipe under a uniformly distributed load, comparing SPP to three types of common soil bedding. Intuitively, bedding the pipeline in clean, compacted sand seems optimal. The angle of support can be controlled (60, 90, 120 degrees) for more at risk pipelines (high D/t), and the bedding will offer continuous support throughout the length of the pipeline. However study results indicate that compacted sand bedding not only provides a low resistance to ovality, but it is actually worse than other types of compacted soils with more cohesion – such as sandy clay (Figure 2).

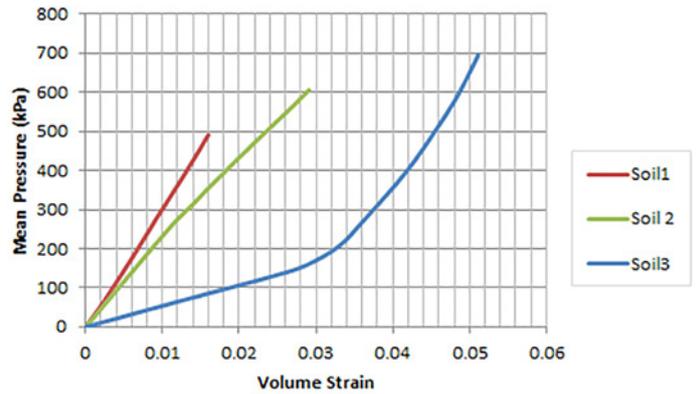
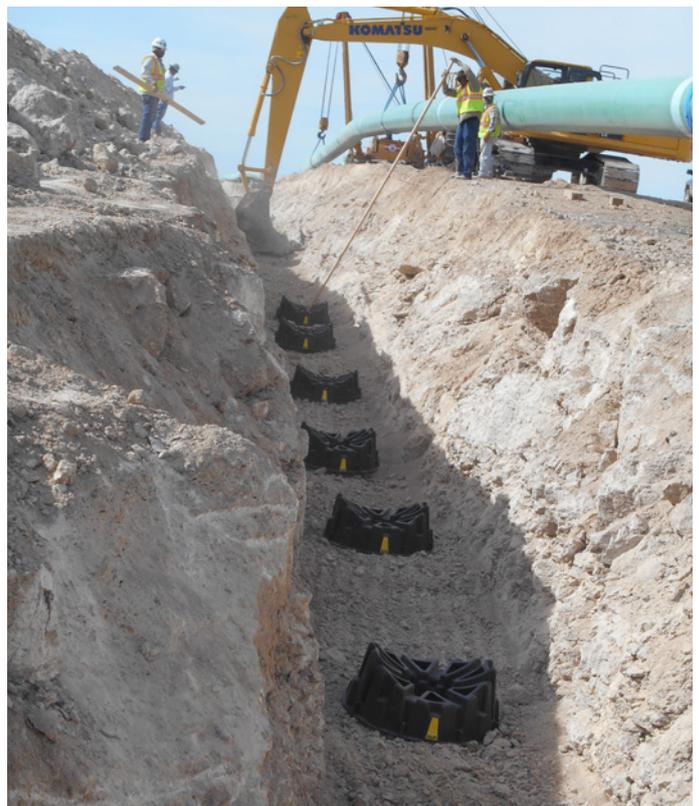


Figure 2

This poor performance in ovality control can be attributed to the low adhesion between grains of sand, even when compacted, as the shift of grains offers discontinuous strength along the length of the pipeline. Although the loading at the 6 o'clock position is spread out with a contoured trench, as loading increases the lower portion of the pipe can actually lift off the bottom of the trench, negating some of the support the carefully compacted bedding has offered.

In comparison, SPP's maintain permanent contact with the pipe - helping to decrease the risk of pipeline ovality by up to 50%. SPP spacing can be calculated to provide pipeline support for varying d/t ratios and trench conditions, ensuring a long term, engineered solution. Structured pipeline pillows, like PipePillo®, are designed to provide a consistent 90° of flexible support to a pipeline – not only during construction but throughout its life cycle.



World Federation (WFPIA) Meeting



The World Federation of Pipeline Industry Associations (WFPIA) met in Paris during the convention.

Incoming IPLOCA President, Rubén Kuri welcomed the attendees on behalf of Atul Punj. The group was reminded that the importance of the WFPIA was to explore areas of

common interest and share best practices. The Federation welcomes all potential members. If you represent an association related to the onshore and offshore construction of international and regional oil, gas, water and slurry pipelines and you are interested in joining the WFPIA, please contact Juan Arzuaga juan.arzuaga@iploca.com for more information.



Attendees from left to right – first row: Cheryl Burgess (PIG, U.K.), Neil Waugh (PLCAC, Canada), Bernie Bermack (PLCA, U.S.A.), Rubén Kuri (IPLOCA). Second row: Rob Darden (DCA, U.S.A.), Dale Anderson (DCA, U.S.A.), Juan Arzuaga (IPLOCA), Mark Bumpstead (APGA, Australia), Jean Claude Van de Wiele (IPLOCA), Neil Lane (PLCAC, Canada).

2017 IPLOCA Scholarship Program

IPLOCA has given 20 scholarships totalling USD 90,000 to help the next generation pursue their chosen field of study.

We would like to continue to build the scholarship program, for the benefit of all members. Scholarships are offered each year for full-time study at an accredited institution of the student's choice.

The applications submission deadline is **27 January 2017**.

Spread the word within your companies and visit www.iploca.com/scholarship for the eligibility requirements and electronic versions of the flyers in seven different languages. Applications should be made in English online at www.scholarsapply.org/iploca.

Please note that all the supporting documentation needs to be provided in English.

Scholarship Program

In its inaugural year, IPLOCA has given 20 scholarships valuing a total of USD 90,000 to help the next generation pursue their chosen field of study. We would like to continue to build the scholarship program, for the benefit of all members. Scholarships are offered each year for full-time study at an accredited institution of the student's choice.

Who is eligible?

Applicants to the IPLOCA Scholarship Program must:

- Be eligible* children or grandchildren, aged 26 and under, of full-time or part-time (where required by country specific regulations) employees of Regular or Associate members of IPLOCA as of the application deadline.
- Be students in their final year of upper or higher secondary school or be current technical or university level students.
- Plan to enroll in full-time undergraduate study at a bona fide college, university, vocational-technical or trade school for the entire upcoming academic year.

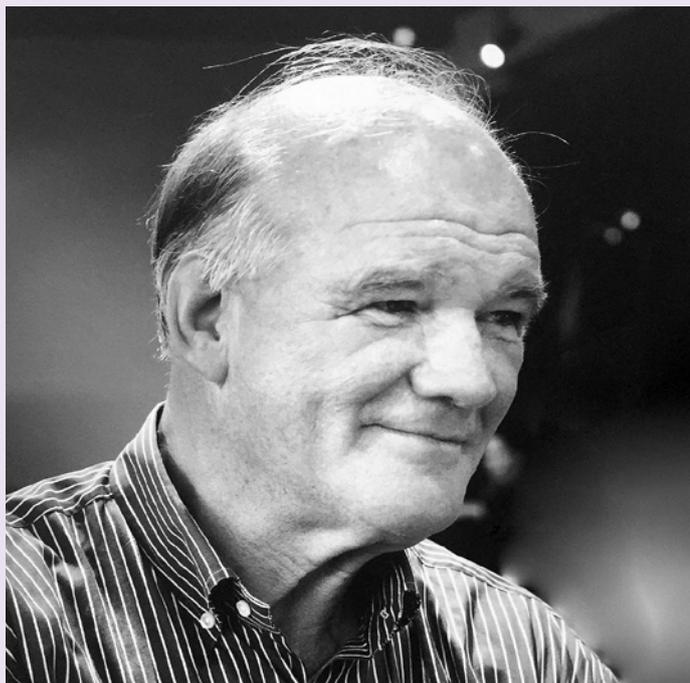
* Eligible children are defined as biological, step- or adopted children living in the employee's household or primarily supported by the employee.

If you meet the above eligibility requirements, IPLOCA invites you to apply online at: www.scholarsapply.org/iploca

Application submission deadline:
January 27, 2017
www.scholarsapply.org/iploca

Scholarship Management Services, a division of Scholarship America®, is administering the program on behalf of IPLOCA

In memory of **Wilhelm Maats**



It is with great sadness that we inform you that Wilhelm Gerrit Maats unexpectedly passed away at the age of 69 on 29 September.

After studying marine engineering, Willem (as he was known to us all) worked for an oil company and was sales director for a Dutch manufacturer of earthmoving equipment. Here a passion was born and in 1981 Willem moved on and founded his own company, first involved in heavy equipment in general and since 1998 specialising in pipeline construction equipment. From the headquarters in the Netherlands, Willem used his strong vision to build Maats Pipeline Equipment to serve the pipeline market around the globe. Under his guidance the company has achieved great milestones.

Maats Pipeline Equipment has been an IPLOCA Associate Member since September 1986 and Willem and his wife Marja have been loyal attendees at the annual conventions ever since. Willem was on the IPLOCA Board of Directors as 'Director Associate Members' from 2000 to 2002 and as 'Director-at-Large' from 2011 to 2016. He truly cared about his job on the IPLOCA Board and fulfilled his tasks with a lot of enthusiasm and dedication.

Willem will be remembered for his great sense of humour, his smiling face, his love for the company and his support, not only for his employees, but for the business in general. He was one of those exceptional characters within our industry and he will be sorely missed. Many of Willem's fellow board members put their feelings into words:

"Willem was a real character and someone whose company I very much enjoyed from the first time we met."

"This is a major loss for IPLOCA and the entire pipeline world."

"Willem was a wonderful person with a big heart. We will never forget his smile and his kindness."

"We knew Willem as dear, honest, genuine and a true friend."

"We lose a good longterm friend, a terrific man, always with a smile."

"We seldom meet such good people in our lives, he was special."

Our thoughts are with Willem's wife Marja and family.



Remembering **Sherry Gettis**

With sadness we announce that Sherry Gettis passed away in Edmonton, Alberta on 28 August, 2016 after a very brief illness.

Sherry was a pipeliner, starting her career at Banister Pipelines while still in her teens. She was involved in the start-up and was the first staff employee to join OJ Pipelines, and then later was part of the team at Spie Construction.

Sherry took a break from pipelining to follow her dream to become a chef. She worked at a mining camp in Canada's Arctic at Echo Bay Mines, one of the first gold mines developed in permafrost and also worked for the Association of Science and Engineering Technology Professionals of Alberta.

In 2004 she returned to the industry at the pipeline division of Finning Canada. In 2005 Sherry joined with Mel Ternan and the small group from Fabick, Ring Power, and Mustang, forming the nucleus of the new Caterpillar dealership, PipeLine Machinery (PLM). Sherry held the position of Global Marketing and Communications Manager, and retired from PLM in 2012.

Upcoming Events

2017

UCT - Underground Construction Technology International Conference & Exhibition
31 January-2 February 2017 - Atlanta, GA, USA
www.uctonline.com

DCA 56th Convention
6-11 February 2017 - Maui, Hawaii, U.S.A.
www.dcaweb.org

Horizontal Directional Drilling Academy
13-14 February 2017 - Tempe, AZ, U.S.A.
hddacademy.com
(Discount available for IPLOCA members)

Pipeline Coating
14-16 February 2017 - Vienna, Austria
www.amiplastics-na.com/events

PLCA 69th Annual Conference
14-18 February 2017 - Scottsdale, AZ, U.S.A.
www.plca.org

PPIM – Pipeline Pigging and Integrity Management
27 February - 2 March 2017 - Houston, TX, U.S.A.
www.clarion.org/ppim/ppim17

Conexpo – CON/AGG
7-11 March 2017 - Las Vegas, NV, U.S.A.
www.conexpoconagg.com

PIG – The Pipeline Industries Guild Dinner
14 March 2017 - London, U.K.
www.pipeguild.com

Pipeline Opportunities Conference
21 March 2017 - Houston, TX, U.S.A.
pipeline-opportunities.com

NAPEC - The North Africa Exhibition and Conference
21-24 March 2017 - Oran, Algeria
www.napec-dz.com

IPLOCA HSE Committee Meeting (HSE Members only)
April 2017 (date and place to be confirmed)
www.iploca.com



IPLOCA Novel Construction Initiative Spring Session
April 2017 (date and place to be confirmed)
www.iploca.com/novelplenarysession



Pipeline & Energy Expo (ex-Tulsa Pipeline Expo)
4-6 April 2017 - Tulsa, OK, U.S.A.
pipelineenergyexpo.com

Hannover Messe
24-28 April 2017 - Hannover, Germany
www.hannovermesse.de

Offshore Technology Conference
1-4 May 2017 - Houston, TX, U.S.A.
2017.otcnet.org

Pipeline Technology Conference
2-4 May 2017 - Berlin, Germany
www.pipeline-conference.com

PLCAC 63rd Annual Convention
14-18 May 2017 - Banff, AB, Canada
www.pipeline.ca

IPLOCA 51st Annual Convention
25-29 September 2017 - Mexico City, Mexico
www.iploca.com

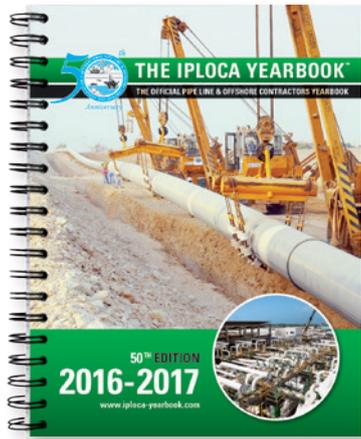


Other Important IPLOCA Dates

Member News for IPLOCA March Newsletter
15 January 2017 - Deadline for submissions
caroline.caravellas@iploca.com

Member News for IPLOCA June Newsletter
15 April 2017 - Deadline for submissions
caroline.caravellas@iploca.com





IPLOCA Yearbook 50th Edition

As this Newsletter is being published, the 50th edition of the IPLOCA Yearbook is being 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

Do not hesitate to send us the addresses of the persons to whom you wish us to send a copy of the IPLOCA Yearbook. We hope this edition will again meet your expectations but we always appreciate your comments and suggestions.

Please continue to send any company updates (address changes or contact names) to listing@iploca-yearbook.com and be sure to also send a copy to sarah.junod@iploca.com. In this way we will update our newsletter mailing lists and membership database. Additional printed copies can be obtained on request: www.iploca-yearbook.com

Listing changes

Please note the following update to an IPLOCA Member since the new edition went to print:

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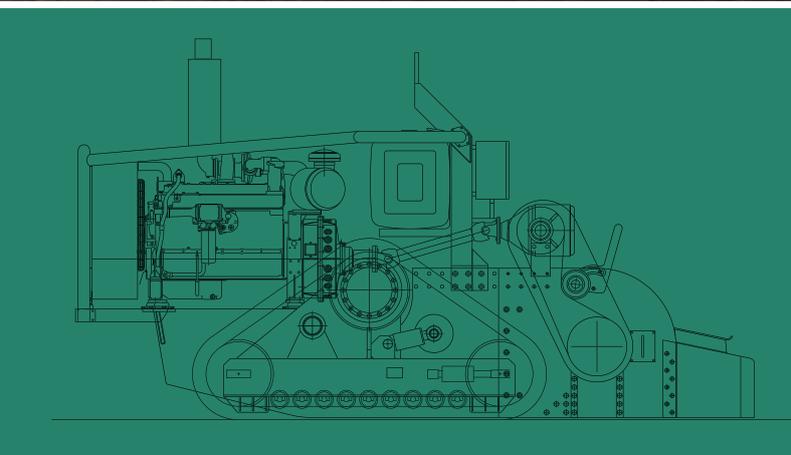


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