



Anniversary
1966 - 2016

THE IPLOCA NEWSLETTER

DECEMBER 2015



Singapore Convention

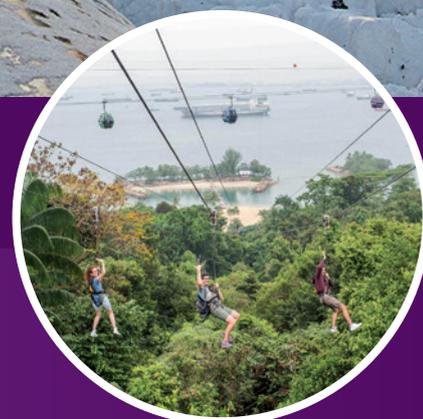
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BENDING HISTORY



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.

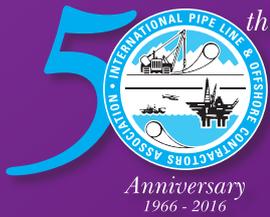
OPERATION: The layout of the machines is simple, operating the machine is easy. Machine settings can be easily controlled and if required easily adjusted.

MAINTENANCE: Built with mainly Liebherr components, all major parts have a proven track record as components build on heavy duty construction machinery. Service, maintenance and the odd repair is easy. Service and spare parts can be easily obtained from your local Liebherr dealer, anywhere in the world.



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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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Cover Photo

**The Eastern Siberia-Pacific Ocean Oil
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Courtesy of **ARGUS Group**

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Letter from the President

I am proud to have accepted the role of IPLOCA President for the coming year and in particular to be the first second-generation IPLOCA president, my father Satti Punj having held this position 18 years ago. I feel even more honoured to serve during this special 50th anniversary year.

I am looking forward to working together with the new Board and continuing to provide value to our members. We welcome five newcomers to the Board this year, whose profiles you will find on page 7 and 8 of this newsletter.

I would like to extend my thanks to our immediate past president, Jean Claude Van de Wiele and the Geneva Secretariat for offering us such a well organised and colourful annual convention in Singapore. Despite the current slowdown in our industry, just over 510 participants flew in from all over the globe to gather at the Fairmont Singapore and soaked up the history, culinary delights and “uniqueness” of this multi-cultural, dynamic city. A photographic retrospective can be found from page 15 onwards.

In Singapore, we presented three IPLOCA awards: the Health & Safety Award sponsored by Chevron, the Corporate Social Responsibility Award sponsored by Total and the New Technologies Award sponsored by BP. Congratulations to the winners and runners-up who are announced on page 17 and 18.

IPLOCA will continue to promote safety and environmental responsibility in the workplace. The HSE Committee has worked hard to encourage a Key Performance Indicator (KPI) objective of a Total Recordable Incident Rate (TRIR), per million hours, of below 3, which has already been met in 2015.

The Novel Construction workgroups will be finalising the chapters for the fourth edition of Onshore Pipelines: The Road to Success. The Scholarship Programme has been launched and we encourage our members to promote this initiative internally within their companies.

New initiatives on the horizon include promotion of Corresponding Membership amongst our clients, and the launch of the Excellence in Project Execution Award.

I look forward to interacting with many of our members over the course of this year.

Best wishes,

Atul Punj

IPLOCA President 2015-2016

News from Geneva

The year may be drawing to a close, but there is no let-up in activities at the IPLOCA Secretariat.

Our database constantly needs updating and we are moving the content of our [website](#) over to the newly designed one,

which will go live in the new year. Now's the time, before we finalise the site map, to let us know if you would like to see new content. Would you like to see a new page, a new section or is there anything you think we could remove?

Please send your comments or feedback to caroline.caravellas@iploca.com

Season's Greetings from Geneva

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 during the past year.

Many of you have done so in a very visible way, such as hosting meetings or sponsoring activities during the convention in Singapore. Rest assured that other contributions such as the sharing of time, expertise and friendships are very valuable and are just as appreciated.

In 2016 we look forward to welcoming new members, collaborating on new initiatives and encouraging safety and efficiency. Our very best wishes to you all for a healthy, accident-free and prosperous new year!



Board Meeting Update Singapore

The October Board of Directors meetings were held in Singapore during the week of the annual convention from 4 to 9 October. The following highlights the main discussions and decisions made during the four meetings of the former & new Board.

Minutes of the Cartagena Meeting

The action items from Cartagena were reviewed in detail.

Client Engagement Committee

It was noted that since only two clients had confirmed their participation in the panel discussion at the Open General Meeting in Singapore, the panel was cancelled and the total number of speaker presentations increased from six to eight, including a presentation from Saudi Aramco.

A new membership category, Corresponding Members, was approved by the membership at the Annual General Meeting on 9 October, when Regular Members formally accepted the proposed By-laws changes. Oil & gas onshore

and offshore owners and/or operators who have an interest in the work of the association may become Corresponding Members by simple written application and approval by the Board of Directors.

Scholarship Committee

The scholarship programme was already launched at the time the Singapore Convention was being held with applications being received through an online system. The committee reiterated that for the programme to be a success, it is important to include it in all member companies' marketing initiatives. The deadline for applications is 26 February 2016. Flyers are available in a number of different languages and can be found on the IPLOCA website. The Secretariat emphasised that the programme is open to employees of IPLOCA member companies in all their offices, not just at headquarters.

Location for the Paris Convention

The decision was made to hold the 50th anniversary convention at Le Méridien Etoile in Paris. Function space, however, is quite tight, so the number of people attending the week's events will need to be limited. A special venue outside the hotel for the 50th anniversary Final Banquet was discussed and approved.

50th Anniversary Booklet

An anniversary booklet in recognition of IPLOCA's past presidents is being prepared with the help and support of CRC-Evans and Gus Meijer, the artists of the presidents' drawings (Ronald Damen and Jan Ernst Douma) and Peter Schoonenberg of Pedemex.

Treasurer's Report

Harald Dresp presented his last Treasurer's Report and presented the half year forecast to complete 2015. He emphasised his concern that IPLOCA had lost members during this year and that the numbers registered at the convention were lower than usual. It is important to bring in new members; regional meetings and technical meetings such as the Novel Construction plenary sessions are opportunities to attract members.

The Membership Manager, however, noted that the total number of members is not the lowest it has been, and the directors who are members of other country specific associations confirmed that they are all seeing a slight drop in membership numbers during this year.

New Associate Members

Following an email vote in September, three Associate Members were confirmed: **BSD Consulting, Inc.**, U.S.A., **Euro Pipeline Equipment S.p.A.**, Italy and **ISCO Industries, LLC**, U.S.A. An additional Associate Member, **Cross Country Pipeline Supply Company Inc.**, U.S.A. was also confirmed at the meeting.

Name and Status Changes

- **EUPEC**, France to **EUPEC Pipecoatings France**
- **Sievert** to **Bureau Veritas**, U.A.E.
- **Worldwide Machinery** to **Worldwide Group**, U.S.A.
- **Vacuworx Global** to **VACUWORX**



Incoming President Atul Punj presented Jean Claude Van de Wiele with his presidential pin.

Resignations and Terminations

Considered as resigned / terminated because of non-payment of 2015 membership fees:

- **Air Liquide Welding**, France
- **Attila Dogan Construction and Installation Company Inc.**, Turkey
- **Beltruboprovodstroy**, Belarus
- **GDK S.A.**, Brazil
- **Hannibal Pipes**, Spain
- **Ilva S.p.A.**, Italy
- **J.C. Impex**, Poland
- **Larsen & Toubro**, India
- **Leighton Offshore PTE Ltd.**, Singapore
- **NGSTempobur, Ltd.**, Russia
- **Porta-Kamp Manufacturing, Inc.**, U.S.A.
- **Promtractor-CHETRA**, Russia
- **Saygili P.D.C. Ltd.**, Turkey
- **LLC Transneftstroy**, Russia
- **Zakneftegazstroy-Prometey**, Russia

Convention

Caroline Green, Convention Manager, reminded the directors that a convention mobile app was available for the first time this year at the convention and congratulated Convention Coordinator, Emma Hachfeld for her work in developing it.

Convening of the 2015-2016 Board of Directors

On Friday, retiring president, Jean Claude Van de Wiele thanked his board and the secretariat for their support over the past year. He tabled the proposed names for the 2015-2016 officers and the board voted unanimously to appoint Atul Punj as President, Rubén Kuri as 1st Vice President, Andy Ball as 2nd Vice President and Jan Koop as Treasurer.

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 Atul Punj. The board voted unanimously to appoint Doug Evans (GIE), Jim Frith (McConnell Dowell), Wilhelm Maats (Maats Pipeline Equipment), Bruno Maerten (Entrepose) and John Tikkanen (ShawCor) as directors-at-large. Najib Khoury was then appointed Director to the Middle East & Africa region, to replace Aqeel Madhi who had resigned that day.

By-Laws Revisions Approved at Annual General Meeting (AGM)

Regular Members unanimously approved the By-laws revisions made by the Board of Directors to modernise them and remove inconsistencies. In addition to introducing a new category of membership, the Board voting process and the use of proxies have been clarified

and also the rules around maximum terms for directors. In future, Regular Members, will vote at AGMs or Special General Meetings by way of a voting card procedure.

Nominations to the Committees

Committee leadership was then discussed and the following were appointed:

HSE Committee

Bruno Maerten (Chairman), Scot Fluharty, Georges Hage, Jan Koop, Mesut Sahin, Adam Wynne Hughes

New Technologies Committee

Jean Claude Van de Wiele (Chairman), Oliviero Corvi (Co-chairman), Doug Evans, Doug Fabick, Ebbo Laenge, Wilhelm Maats

Client Engagement Committee

John Tikkanen (Chairman), Atul Punj, Andy Ball, Bruno Guy de Chamisso, Iyidil Haldun, Najib Khoury, Ma Chunqing, Iosif Panchak

Scholarship Committee

Doug Evans (Chairman), Larry Bolander, Rubén Kuri, Steve Sumner, Jean Claude Van de Wiele

Convention Location Committee

Marco Jannuzzi (Chairman), Doug Fabick, Rubén Kuri, Bruno Maerten, Adam Wynne Hughes

Temporary By-laws & Aide-mémoire Revision Committee

Jan Koop (Chairman), Jim Frith, Mesut Sahin, Adam Wynne Hughes

IPLOCA Yearbook

It was confirmed that the 49th edition of The IPLOCA Yearbook would be published at the end of November to be distributed in December.

Next Board Meeting

The December Board of Directors meeting will be held in Prague, Czech Republic from 1 to 4 December.

New Faces on the IPLOCA Board of Directors

As a result of the 2015-2016 elections for directors in Singapore, we extend a warm welcome to the following new Board directors:



Oliviero Corvi, Director for Europe Mediterranean

Oliviero is responsible for the management of pipeline projects worldwide as the Pipelines Business Unit Director with Bonatti S.p.A. He has been working for Bonatti S.p.A. since 1979 in various positions including responsibilities within the commercial area, construction, project management and general management. He has been instrumental in developing the activities of the company in the oil & gas industry in several countries in North Africa, South and Central America, Middle East, the European Union and Eastern Europe. Oliviero's experience relates particularly to onshore pipelines and related facilities, onshore plants (gas treatment, oil treatment, gas oil separation, gas lift, water injection, compression stations, pumping stations, etc.). He is married to Alba, has two daughters and lives in Parma, Italy.



Bruno Guy de Chamisso, Director for Europe Mediterranean

Bruno currently serves as Executive Vice President at SPIECAPAG and has worked with the company since 1994, working as Project Manager on EPC projects mainly in Europe: France, Georgia, Spain, Norway, Switzerland and as far as Senegal. Since 2006, he has been the EVP Operations, supervising all SPIECAPAG projects worldwide (Yemen, Angola, South Africa, Algeria, Papua New Guinea, Australia, Colombia, Bolivia). He is a graduate of Engineering and holds a Master in Business Administration from the H.E.C. (Hautes Etudes Commerciales). He is married to Inmaculada and has 3 children. He is fond of sports, and recently, has started to learn to play the Flamenco guitar. He loves Spain where he spends most of his holidays.



Doug Fabick, Director for Associate Members

Doug is currently a board member of PLM where he was chairman for three years. He is also Chief Executive Officer of Fabick CAT, where he officially began working 25 years ago. The Fabick family heritage, in partnership with Caterpillar,

has endured for nearly a century, with the original Fabick Company being founded by John Fabick Sr. in 1917. The company's first ties with the international pipeline world began in the 1930's when oil was discovered in southern Illinois. During the fourth generation of Fabick CAT, Doug has continued to work with the pipeline industry and enhance the relationships formed by his great grandfather by helping to found Pipeline Machinery International (PLM) in 2005. He has been attending IPLOCA conventions worldwide for almost 20 years. Fabick CAT's family business ties, along with its partnership in PLM, have allowed Doug to continue to successfully partake in the construction of almost every major pipeline project to date. Doug resides in Town and Country, Missouri, U.S.A. and is an avid fisherman and sportsman.

international construction projects and in 2000, Mears Group, Inc. became part of Quanta Services. Since then, Scot has overseen projects and operations throughout North America, Brazil, Argentina, India, Bangladesh and Australia. Scot lives in Arizona, U.S.A. and is married to Denelle.



Ma Chunqing, Director for East & Far East

Ma Chunqing is Vice President of China Petroleum Pipeline Bureau for the southeastern part of South East Asia. He has around twenty years' experience in PMC/EPC project management in the oil & gas industry, including seventeen years

of management experience. He started his career in 1996 as Vice Manager of an import and export company of China Petroleum Pipeline Material and Equipment Corp. and then joined the China Petroleum Pipeline Bureau, working for six years as General Manager of the Sudan branch. Before spending five years as Director General of the Foreign Affairs Division, he was Deputy General Manager of the International Division. Ma Chunqing holds a Master degree from China Petroleum University, in HuaDong.

A photograph of the full 2015-2016 Board of Directors can be found on page 28 of this newsletter and on our website at www.iploca.com.



Scot Fluharty, Director for America North

Scot is President & CEO of Mears Group of Companies. As such, he leads Mears Group, Inc., which is part of the Quanta Services Oil & Gas Group. With over 30 years experience in the pipeline industry, he has been an integral part of developing

pipeline construction markets and methods for Mears. In 1993 he helped the Company expand into horizontal directional drilling, providing service to the utility industry. In 1997, Scot played a major role in the company's expansion into



Marco is a familiar face to not only IPLOCA Board members, but also to all those who have attended the convention on a regular basis since he has been Caterpillar's primary contact with IPLOCA and closely involved with the organisation of the Caterpillar evening. Caterpillar has been one of the major sponsors of our conventions for many decades and a supporter of many of IPLOCA's initiatives. We look forward to maintaining this special relationship in the years to come.

In addition, Marco has been a key participant in the Novel Construction Initiative since 2004 and acted as a leader of one of the work groups. It was with profound emotion that he made his announcement to his fellow Board members.

Only one smoker left on the Board...

Less than a month after being reconfirmed as Board Member to represent IPLOCA Associate Members, Marco Jannuzzi has announced that he is retiring from Caterpillar and therefore can no longer remain on the IPLOCA Board as the Caterpillar representative.

"After so many years of sharing conventions and Board meetings with you - I have not missed a single Board meeting in all my tenure as IPLOCA Director - I will not be with you in Prague in December. I would like to thank each one of you for the relationship and friendship developed over the years. Please accept

Margherita's and my friendship, and best wishes for the future of our association."

Well-wishers weren't sure of the veracity of the announcement and testified to Marco's warm personality, dedication, commitment and sense of humour. "When I started reading your email, Marco, I thought this was one of your pleasant jokes..."

"...your position will be taken, but there is no way your presence will be replaced."
"It is difficult to imagine a Board meeting without you."

Retirement does not seem to be a word in Marco's vocabulary, however, as he says, "you won't get rid of me so easily!" - he will be continuing his activity as a consultant within the pipeline community.

Membership Centre

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

New Associate Members



BSD Consulting, Inc. is dedicated to meeting the data management, software, and consulting needs of the pipeline industry. Utilising its industry experience, BSD Consulting is continually pursuing new avenues to make the full data lifecycle of each project more efficient and to assist every client in attaining its goals. BSD Consulting's innovative software technology bridges the gaps between operating and engineering companies as well as survey, computer-aided design (CAD), and GIS departments. The company has a commitment to provide products and services to streamline work processes and implement consistency throughout each phase of a new pipeline construction project.

BSD Consulting, Inc.

14100 Southwest Freeway, Suite 230
Sugar Land, TX 77478
U.S.A.
T +1 281 980 9494 F +1 281 573 0072
nicholek@blueskydev.com
www.bsdconsultinginc.com

- Parts and supplies - ranging from corrosion protection to personnel safety equipment plus a full line of spare parts for associated equipment.
- Sale of new and used pipeline equipment
- Pipeline integrity services through N2 Nitrogen Services

Cross Country Pipeline Supply Company, Inc.

2251 Rifle St.
Aurora, CO 80011
U.S.A.
T +1 303 361 6797 F +1 303 361 6836
bmarhofer@ccpipeline.com
www.ccpipeline.com



Euro Pipeline Equipment S.p.A., a leading enterprise in the pipeline industry, was founded in 1994, but its activity in pipeline equipment repair and overhauling actually dates back to 1974, due to the huge field experience of its staff of expert technicians. Euro Pipeline Equipment is a qualified O.E.M. (original equipment manufacturer) and supplier of advanced equipment for onshore and offshore pipeline construction in the oil & gas as well as water sectors. The facility plant of Euro Pipeline Equipment is located in Piacenza province in the small town of Carpaneto Piacentino (80km south-west of Milan) and spreads over a total area of 53,000 m² of which 20,000 m² is under cover. Production is 100% in-house and includes pay-welders for automatic/MMA welding procedures, pipe bending machines with hydraulic wedge mandrels, hydrostatic pipe layers 40T - 60T - 90T, rollie-cradles from 12" up to 60", internal pneumatic line-up clamps, external hydraulic line-up clamps, sandblasting plants, miscellaneous and various accessories.

Euro Pipeline Equipment S.p.A.

Strada provincial 6 bis, Loc. Cascine Draghi
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T +39 0523 852064/853220 F +39 0523 850050
info@europipeline-equipment.com
www.europipeline-equipment.eu



Cross Country Pipeline Supply Company, Inc (CCPL)

is headquartered in Aurora, Colorado and supplies equipment and services to pipeline contractors worldwide from 7 locations across the U.S.A. and Canada. CCPL focuses on 4 key service categories:

- Rental of a diverse fleet of pipelayers, dozers, excavators, weld tractors, trenchers, test and fill pumps, pig launchers and receivers, bending machines, mandrels, clamps, padding buckets, vacuum lifters and other related equipment

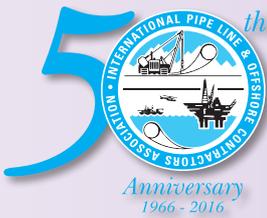


ISCO Industries is an innovative employee-owned global HDPE (high-density polyethylene) piping solutions provider with headquarters in Louisville, Kentucky U.S.A. Its HDPE and other piping products provide service solutions for many environmental, industrial, power and energy, mining, landfill and municipal applications throughout the world. As one of the largest in the industry, ISCO has more than 30 facilities in North America, Australia, Chile, Peru and the Middle East. ISCO's team has supplied numerous global HDPE projects and responds

quickly to customers' needs for HDPE pipe, custom fabricate fittings, HDPE structures and fusion welding equipment services.

ISCO Industries

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mike.james@isco-pipe.com
www.isco-pipe.com



IPLOCA 2016 Membership Fees

Membership fee invoices were emailed at the end of November and the payment due date is 4 January 2016. Please note that paper copies of invoices will only be mailed upon request. Membership certificates will be mailed in January.

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

Member News

Dhatec Pipe Stop at Qube Energy in Melbourne



Dhatec's tube and pipe storage system Pipe Stop is being used successfully at the South Wharf facility in the Port of Melbourne, by logistics services provider Qube Energy. The stockpile management decided to use Pipe Stop as a safe and efficient stacking system for the Victorian Northern Interconnection Expansion Pipeline Project. Pipe Stop is safe and cost efficient, adjustable and durable, as confirmed by Qube management: "For the first time, Qube Energy used the Dhatec Pipe Stop system for stockpiling line pipe at its wharf facility. This is a very secure, safe and efficient system, allowing us to remove sections of track not required once the line pipe

has been moved out, meaning that the lay down area is quickly reclaimed, or can be moved to smaller sections with multiple access points." Storage space can also be saved due to the possibility of stacking high and the use of the storage yard can be optimised.

Cyntech buoyancy control system to be used on TANAP pipeline

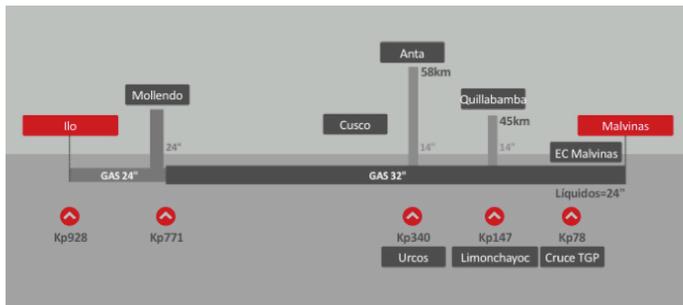
Cyntech Pipelines has been chosen to provide the pipeline buoyancy control system for the TANAP 56" pipeline project in Turkey, including Lot 1, Lot 2, and Lot 3. The Cyntech anchor system will not only be used for buoyancy control but also to mitigate soil instability due to liquefaction in earthquake prone



areas. Since 1981 Cyntech has been committed to providing innovative and cost effective solutions to the energy and petro-chemical industry. The Cyntech Pipeline Anchor System for buoyancy control has been proven on pipelines around the world. Its advanced anchor designs, combined with its exclusive, non-corroding, low stress patented polyester pipe saddles, provide unparalleled performance and longevity regardless of the

installation environment. Cost savings of up to 70% can be achieved over traditional pipeline buoyancy control methods. Cyntech's anchor system eliminates the need for concrete weights, concrete coated pipe or saddle bags to control pipeline buoyancy. Personnel and equipment hours, materials, storage and transportation costs are all reduced significantly with this polyester saddle and anchor system.

SICIM and the Peruvian South Pipeline (GSP)



SICIM has started construction works on its section of the Pipeline Project Gasoducto Sur Peruano (24/32" for 454 km of length) which is being developed by Odebrecht in Peru on a 25 year concession basis from Proinversion, a National Peruvian Agency for Development. In addition to SICIM, Odebrecht has also been involved in the development of this strategic project with two other contractors, namely Elecnor and Conduto. The project is anticipated to be commissioned in early 2018. The pipeline system starts in Urcos District, Cusco Region, and runs towards the south of the country up to the gas powered power plant located in Ilo, in the Moquegua Region. It starts in the Amazonian thick selva in Malvinas and crosses the Andes at an altitude of more than 4,800 metres above sea level. The system will have capacity to deliver 500 million cubic feet per day to the south of the country and 1,500 million cubic feet per day to the point of connection with TGP and will be reserved exclusively to meet domestic demand.

school programmes. Gulf is an advocate of education and takes pride in being the Pipeline People®. This is accomplished through the commitment and dedication of their employees. Building a culture of community within its organization, Gulf has made it a priority to adopt additional programmes; such as Wellness initiatives, Town Hall Meetings, Quality Day, GIS Day and Career Program opportunities. Due to these efforts, employees of Gulf Interstate Engineering have voted it as one of the Top 100 Companies in Houston two years in a row.

McConnell Dowell completes Fourth Transmission Pipeline in Thailand

After a year of fast-track construction and five million workhours worked without a lost time injury, McConnell Dowell has successfully completed the Fourth Transmission Pipeline Phase 2 (FTP2) project in Thailand. The construction contract was awarded to McConnell Dowell Constructors Thai by PTT Public Company Limited in June 2014. The project encompassed more than 60 km of 42 inch high-pressure gas pipeline and major facilities spread over 300 km of challenging terrain and traversing six provinces of Thailand, between Nakhon Nayuk in the north and Rayong in the south. At peak construction, the site workforce exceeded 2,800 employees across 50 discrete work locations. Much of the work was undertaken in brownfield environments adjacent to busy highways, utility services, watercourses and residential and commercial dwellings. It involved extensive trenchless pipe installation, including 45 waterway crossings and 189 road crossings with minimised disruption to communities along the route. McConnell Dowell worked collaboratively with Consolidated Contracting Company and PTT throughout the project to successfully deliver much needed new gas supplies to the residents and businesses of Thailand.



Gulf Interstate Engineering promotes the IPLOCA Scholarship Programme through employee engagement

Gulf Interstate Engineering is a strong supporter of the

IPLOCA Scholarship Programme and is pleased to make this opportunity available to its employees and their children and grandchildren. This programme opens doors for continuing education in college or vocational



ISCO Industries & Tubi Group introduce on-site HDPE pipe production



ISCO Industries is pleased to announce a global agreement with the Tubi Group. The Tubi system is a mobile HDPE (high-density polyethylene products) pipe production plant that is deployed and operational in less than 48 hours. The ISCO-Tubi system brings pipe production to even the most remote project site, eliminating the need for freight and challenging logistics. Since HDPE pipe extrusion is a continuous process, the ISCO-Tubi system has the capability of extruding pipe in unprecedented lengths directly on or near a project site. The ISCO-Tubi system reduces freight and handling costs, while minimizing safety issues. In addition to extruding long lengths of pipe, ISCO-Tubi can coil pipe up to 1500 ft (455 m) of 12 in (315 mm) diameter pipe.

Maats introduces Induction Tractor

The first two SR714 Induction Tractors are finished and have been delivered to start work on a project in the North African desert. The new SR714 Induction Tractor is designed for carrying & efficiently powering pipe induction heating units. The SR714 Induction Tractor is a conversion of the versatile SR714 Tractor



that has seen many applications since its introduction. The design for the induction application is based on the existing lay-out of the SR714 Welding Tractor, utilising the high performance base machine and attachments (crane and facilities for attachments on the rear platform). For the induction application the base machine of the SR714 was optimised and equipped with a powerful generator in order to generate the required amount of electricity as well as to be able to handle the heavy peak currents that are necessary for powering the induction heating attachment.

Salzgitter Group to deliver some 170,000 t of large diameter pipes and pipe bends for the Trans Adriatic Pipeline

The Salzgitter Group will be delivering 270 km of large-diameter pipes and 1,559 pipe bends for construction of the Trans Adriatic Pipeline (TAP), which is to transport natural gas from the Caspian area to Europe in the future. The total tonnage amounts to some 170,000 metric tons. Salzgitter Mannesmann International GmbH booked the order and delivery will commence in January 2016. The large-diameter pipes – primarily measuring 48” - are to be manufactured by EUROPIPE GmbH, Mülheim, a joint venture of the Salzgitter Group and the AG der Dillinger Hüttenwerke. The production of 1,559 pipe bends for the overall line of 878 km is the largest order ever in the history of the Mülheim based pipe bending plant of Salzgitter Mannesmann Grobblech GmbH. The order will ensure capacity utilisation of the pipe bending plant for a year.

Completion of the automatic welding phase in Los Ramones II Norte in Mexico

Techint Engineering & Construction and its partners Arendal and Odebrecht (AOT Pipelines consortium) have successfully completed the automatic welding phase of almost 320 km of pipes in Los Ramones II Norte project in Mexico. The scope of work includes engineering, procurement, construction and start-up assistance of a 452 km long gas pipeline with 42” in diameter, using automatic and manual welding, with two compressor stations of 60,000 HP each. The pipeline runs across three Mexican states (Nuevo León, Tamaulipas and San Luis Potosí) with a maximum transport capacity of 1,430 million cubic feet of natural gas per day. Construction began in November 2014 and involved 7,200 workers at peak. Start-up is expected for the first quarter of 2016. One of the main challenges of the project was crossing the Sierra Madre Mountain heights. It included a 2,100 metres cliff wall with slopes



of up to 40° which required the use of a cable car in the last 500 metres for pipeline assembly and lay down. All the activities are being developed under the highest quality and safety standards. This project represents a milestone in the modernization process of the country's natural gas distribution system in the framework of the Mexican Energy Reform.

Tekfen Construction successfully completes construction of new Resid Upgrade Project



Tekfen Construction has successfully completed the construction of the new Resid Upgrade Project for Tupras, the main purpose of which was to build new units that will process the low value of fuel oil and convert it to valuable products. With the completion of the Resid Upgrade Project, Tupras will process 4.2 million ton per year high sulfur fuel oil and will produce 3.5 million ton per year valuable high quality white products (diesel / jet fuel, gasoline and LPG) in Euro-V standards, 690.000 tpy petroleum coke and 86.000 tpy sulfur. Tekfen's contract included turnkey execution of all civil works, steel structure engineering, supply and erection, mechanical erection, HVAC systems' installation, electrical and instrument works and also precommissioning,

commissioning activities. Tupras is the 7th biggest refining company in Europe and the 29th biggest refining company in the world with 28.1 million ton production capacity. It is a vertically integrated company that includes activities starting with refining and continuing with storage, transportation, marketing as well as export of petroleum products.

Technip Germany has moved into a new office building

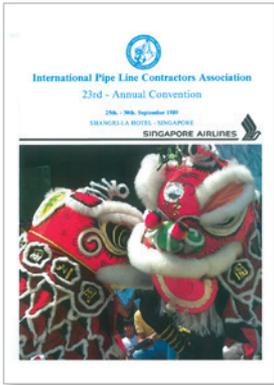
Technip Germany is proud to announce the official opening on 24 October of its new premises at 182 Theodorstraße in Düsseldorf. More than 400 guests and the families of its employees attended the opening ceremony of the new and modern building comprising 14.000m². The Mayor of North Rhine Westphalia's capital Düsseldorf, Thomas Geisel made the official opening together with Mesut Sahin, CEO of Technip in Germany.

Uponor Infra's Wehocoat robots collaborate with Rae Energy

RAE Energy applied ca. 6,000 3-layer Wehocoat field joints on 8" and 10" pipes for Subsea 7 in their Leith spoolbase during the first half of 2015 for a range of clients. The pipes were subsequently laid using the reel lay method without any incidence of failure and to the satisfaction of both Subsea 7 and the end users. The Wehocoat technology is developed by Uponor Infra Ltd. and Borealis AG. The application of the polypropylene film using the Wehocoat application robot, integrated into RAE Energy's state of the art application skid, was performed with a short and reproducible cycle time as part of RAE Energy's overall 3-layer Polypropylene application process. In addition to this particularity, the machine offers the respectable performance to lift 98.000 kg and a full hydrostatic two speed automatic system.



Singapore Convention Retrospective



Our 49th convention, attended by 510 participants, was the second one held in Singapore, the last one dating back to 1989.

The busy week included a three day tour programme focusing on the highlights of this cosmopolitan and culturally diverse city. Social functions spread throughout the week

offered numerous networking opportunities in addition to the chance to have fun, soak up the varied culinary delights of the region and spend time in key venues, some with a rich historical background.

Post-convention Questionnaire

Many thanks to the attendees who took the time to complete and submit their post-convention questionnaires so promptly. A follow-up email has been sent and we encourage any

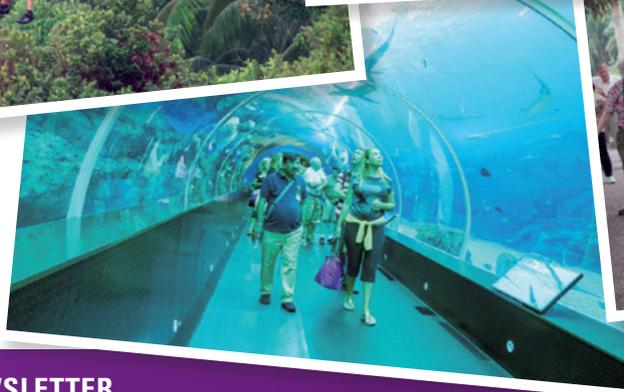
attendees who have not yet responded to the questionnaire to do so via the link provided – it is very helpful for us to identify any clear patterns or concerns and it is an opportunity for you to express your opinion on any part of the convention, assisting us in tailoring future ones.

Here are some insights to give you an idea of the feedback so far. We are very pleased to have been able to capture views from spouses this year: of those who responded to the questionnaire, 16% were spouses. Tours: 60% of respondents ranked the tours as good, and that percentage increases to 90% if we include those who rated them as satisfactory. The social programme was particularly appreciated with over 80% ranking the social programme as good. New this year, the convention mobile app was rated by 70% of respondents who were very satisfied with its content and ease of use. Business networking followed by the opportunity to see friends are the overriding reasons for participants to attend the convention. Future new projects and new technologies continue to stand out as the main themes for presentations at the Open General Meetings.

Photo Gallery

The photos on the following pages, along with many others, will be available on a souvenir CD of photographs which will be mailed out to all attendees early December.

We look forward to seeing everyone next year at Le Méridien Etoile in Paris for our special 50th anniversary convention.





Maats Pipeline Equipment Golf Tournament

Wilhelm Maats, Marja Maats and Boris Böhm would like to thank everyone who played in the 4th Maats Pipeline Equipment golf tournament, which was held at Singapore Island Country Club.

After a week of 'haze', the sun made a welcome appearance and thankfully the rain held off until the end of the day. The tournament was a great success and your continued support is very much appreciated.

Congratulations to all trophy winners, namely:

First Place: Team 11 - Zach Schultz, Jon Heinen, Christopher Wilson, David Wisniewski

Second Place: Team 13 - Doug Evans, Rashid Shuhaiber, Adam Wynne Hughes, Roger Spee

Third Place: Team 18 - William Solomon, Brent Sherfey, Bernard Quereillahc, Heinz Schwarte

Nearest the Pin Ladies: Charlotte Hardy

Nearest the Pin Men: Pascal Collet

Longest Drive Ladies: Joanne Tikkanen

Longest Drive Men: Ryan Evans

A special mention and congratulations to **Matthew Weeks**, who achieved the first 'hole in one' in the history of the golf tournament! Maats Pipeline Equipment looks forward to seeing you at the 2016 IPLOCA Convention in Paris and hope you will join us for another great day on the golf course.



Can you guess whose legs these are?



Final Banquet Lottery

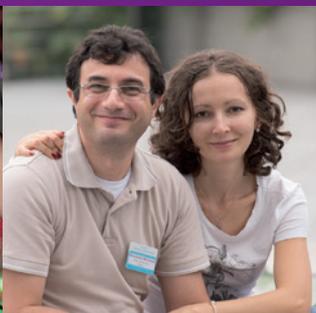
Lottery funds of USD 20,330 were raised for Centre ISALA – a breast cancer clinic located in Saint-Pierre University Hospital in Brussels, Belgium.

The funds were presented to Dr. Fabienne Liebens, oncologist and head of the clinic, by Martine Van de Wiele. We have been told that the clinic's staff now proudly display the IPLOCA-created banner in their waiting room.

Jean Claude and Martine Van de Wiele wish to thank everyone who supported this initiative by buying tickets

for the Final Banquet lottery. The lucky Associate Member winner, Dr. Volker Boerschel of Akzo Nobel Powder Coatings GmbH, received a purchasing certificate for a car worth USD 32,500, courtesy of Regular Members, Consolidated Contractors Company (CCC) and National Petroleum Construction Company (NPCC).















Guest Speakers at the Singapore Convention

Presentations made during the Open General Meetings held on Thursday and Friday covered a wide variety of subjects including the history of Singapore, the feasibility of new pipeline projects in the new macroeconomic environment, trends in international upstream M&A in a depressed oil price market, efficient deep water seabed intervention, pipeline projects in Saudi Arabia, and high pressure water transmission pipelines. Many thanks to all our guest speakers for their invaluable contributions. Copies of their presentations are available at www.iploca.com/convention



Ho Chi Tim
Department of History, National University of Singapore (NUS)
Beyond the Singapore Story: Historical Connections to Region, Empire and the World



Ricardo Markous
Gas & Power General Director, Tecpetrol, Techint Group
Feasibility of New Pipeline Projects in the New Macroeconomic Environment & with Increasing Capital Costs



Jonathan Green
Business and Competitive Intelligence Manager, Addax Petroleum Ltd.
Trends in International Upstream M&A in a Depressed Oil Price Environment



Jan Vlak
Operations Manager, Van Oord Offshore bv
Efficient Deep Water Seabed Intervention with Van Oord Deep Excavation System



Andreas Kohler
Managing Director, ILF Business Consult
Alexander Heinz
Head of Water Pipeline Engineering, ILF Consulting Engineers
The Market for High Pressure Water Transmission Pipelines



Mansour S. Al-Shehri
Manager, East West Pipeline Projects Department, Saudi Aramco
Pipeline Opportunities with Saudi Aramco

Presentation of Awards in Singapore

Three awards were presented in Singapore

They are highlighted here and further information on the entries is available on our website, along with the list of submissions received. You may also wish to refer to the detailed descriptions of the rationale and value of each of the IPLOCA awards which were published in the June 2015 Newsletter.



The 2015 IPLOCA Health and Safety Award sponsored by Chevron

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

This year's award was presented to **Max Streicher S.p.A.**, represented by Harald Dresp and Giovanni Muriana in recognition of their Belt System. The Adjudication Committee made their decision for the following reasons: this initiative shows employee engagement; it is derived from the analysis of accidents; it is a simple, efficient and innovative solution.

The runners-up were:

- **Michels Corporation**, represented by Mike Prior, for their "Promise Me" video campaign that brings safety back to its real goals.
- **SPIECAPAG**, represented by Bruno Guy de Chamisso, for their "Finish Strong" initiative that emphasises safety in the last phases of a project.



Bruno Maerten, Chairman of the HSE Committee, Harald Dresp, Giovanni Muriana, Bruno Guy de Chamisso, Mike Prior and IPLOCA 2014-2015 President Jean Claude Van de Wiele.



The 2015 IPLOCA Corporate Social Responsibility Award sponsored by Total

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.

Technip, represented by Mesut Sahin and Yasar Pakel, received this award for their policy "Encouraging a Fair Return for All". This particular project was selected by the Adjudication Committee for its involvement in long-term planning, its applicability to projects worldwide and the fact that it is a self-funded initiative. In addition it shows top level management commitment and promotes environmental awareness.

IPLOCA also named two runners-up:

- **Saipem S.p.A.**, represented by IPLOCA Director for Europe Mediterranean, Roberto Castelli, for the

Promotion of Entrepreneurship Opportunities, a long term and self-funded programme.

- **SPIECAPAG**, represented by Bruno Guy de Chamisso, for their Community Capacitation programme applicable to multiple projects.



Bruno Maerten, Mesut Sahin, Yasar Pakel, Bruno Guy de Chamisso, Roberto Castelli and Marc Geniteau representing Total.

bp **The 2015 IPLOCA New Technologies Award**
sponsored by BP

This award is given every second year in recognition of a significant achievement in the development of new pipeline technologies.

The Adjudication Committee decided to present the award to **Denys** and **Selmers**, represented by Luc Hoppenbrouwers, Johan van Wassenhove and Bart Appelman, in recognition of their work on their onshore automatic vacuum field joint blasting. This entry was recognised because the new tool improves HSE conditions for workers in the field; it is an initiative that involves both a contractor and a manufacturer working together, and it is an example of technology transfer from the offshore to the onshore industry. Please see page 21 for a detailed article on this project.

Two runners-up were also named:

- **Herrenknecht AG**, represented by Alexander Mallaney, for their new drilling tools that increase performance of Horizontal Directional Drilling.
- **PipeSak**, represented by Geoff Connors, for their PipePillo Structural Pipeline Pillow, a simple and very creative method.



IPLOCA 2014-2015 President Jean Claude Van de Wiele, Geoff Connors, Johan van Wassenhove, Alexander Mallaney, Bart Appelman, Michael Hiam representing BP and Luc Hoppenbrouwers.

Congratulations to all those who participated in the 2015 awards and we encourage all members to prepare and submit entries for 2016. In addition to the 2016 Health & Safety and Environmental Awards, a new award will be launched: the IPLOCA Excellence in Project Execution Award. All relevant information will be available on www.iploca.com.

World Federation (WFPIA) Meeting



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

IPLOCA President, Jean Claude Van de Wiele welcomed everybody and emphasised the value of having all of the representatives of the pipeline industry meeting on an international level. He also thanked all members of the sister associations for their hospitality during their annual

events. During this meeting, a Guidelines document to help administer the Federation was discussed and approved.

We encourage and welcome all potential members of the Federation. If you represent an association related to the onshore and offshore construction of international and regional oil, gas, water and slurry pipelines and if you are interested in joining the WFPIA, please contact Juan Arzuaga juan.arzuaga@iploca.com for more information.



Attendees from left to right: Andy Lukas (APGA, Australia), Jim Frith (APGA, Australia), Rob Darden (DCA, U.S.A.), Frank Patterson (DCA, U.S.A.), Mark Scherer (PLCAC, Canada), Neil Lane (PLCAC, Canada), Cheryl Burgess (PIG, U.K.), Jean Claude Van de Wiele (IPLOCA), Juan Arzuaga (IPLOCA).

Health, Safety and the Environment

The HSE Committee met at the Crowne Plaza Paris République, to coincide with the November meeting of the Novel Construction Initiative.

Amongst other agenda items, the Committee reviewed the adjudication process for the HSE Awards and agreed that in future the awards guidelines will be more strictly adhered to: submissions will need to include all the relevant documents in the correct format and late submissions will no longer be accepted.

The 2016 Safety Workshop will be held in Geneva on 23 June and the proposed theme is Safety Assessment Efficiency. All HSE managers and key representatives of IPLOCA members will be invited to attend this event.



Attendees from the left, sitting: Bruno Maerten (Committee Chairman), Luca Princivalli Conti, Jean Claude Van de Wiele. From the left, standing: Juan Arzuaga, Kevin Parker, Sarah Junod, Dinç Senlier, Leo Maas, Adam Wynne Hughes, Alain Gauthiez.

New Technologies One of Novel Construction founders hangs up his hard hat

(Profile excerpts courtesy of Volvo Construction Equipment)



IPLOCA may be celebrating its 50th anniversary this year, but a pipeline legend has managed to work in the industry for longer. With 52 years under his belt and having worked on pipeline projects in as many countries around the world, Bernard Quereillah of Volvo, now 69, is packing away his safety gear to focus on retirement opportunities.

Well known for many years within IPLOCA and to pipeline contractors around the world, Bernard was one of the founders of IPLOCA's Novel Construction Initiative, created to stimulate innovation in the technology and processes required for the execution of onshore pipeline projects; an initiative set on engaging all contributors in the pipeline construction supply chain. In support of this initiative, Bernard has been involved in many project teams: skid-less methodology, camp and logistics, pipe bending teams and as a contributor to the book 'Onshore Pipelines: The Road to Success'.

Born in the southwest of France, Bernard first came to the industry as a student trainee at the age of 17 and since then has occupied many different positions over the years, covering most pipeline construction phases. Following

his father, Pierre's footsteps, who spent 30 years with the company, Bernard joined French based, global pipeline contractor, Spiecapag, early in his career and went back to work there in 1987, staying twenty years. During this time he served, among other roles, as their Logistics, Equipment and Plant Manager, with much of his time dedicated to pipelayer safety issues, which, for Bernard, is somewhat of a passion. In 2007, aged 61, Bernard elected for another career change and challenge in accepting the position of Customer Solutions Director for Oil & Gas with Volvo Construction Equipment. Volvo at that time was just embarking on its pipelayer development project, with its unique, rotating pipelayer concept. Rumour has it that Bernard will now have more time to work on his vintage cars, his, long-term, personal passion, as well as spending time with his friends and family.



Bernard being thanked for his contribution to IPLOCA by Jean Claude Van de Wiele at the 49th IPLOCA Convention in Singapore.

Novel Construction Fall Plenary Session

On 4-5, November 2015, a record number of 70 delegates from all over the world participated in a Novel Construction meeting at the Crowne Plaza Paris République hotel.

At the plenary sessions, presentations were made by IPLOCA members and non-members on their novel products and initiatives with the aim of improving pipeline design and construction. The guest speakers are listed below. Articles on the initiatives marked with an * follow this report and copies of the presentations are available on www.iploca.com/novelplenarysession.

- Internal pipe bending - an innovative technology for thermal insulated pipelines, Oliver Baum, isobend GmbH*
- Dare to Dream - winner of the 2015 IPLOCA New Technologies Award sponsored by BP, Patrick Berré, Denys *
- Performer - improving side-boom transportation, Fernando Piccinini, Euro Pipeline Equipment S.p.A. *
- Simulators...why bother? Per Bergman, Oryx Sweden
- New welding developments, Ralph Wijnholds, Magnatech *
- The Road to Success - some of the legal risks/ considerations contributing to a well-balanced project, Adrian Elliott, Pinsent Masons LLP *
- Development of inspect pipelines with large wall thickness variations making use of adaptive focal laws, Jan van der Ent, Applus RTD *

Juan Arzuaga also presented all the submissions received for the IPLOCA New Technologies Award sponsored by BP.

"The Road to Success" 4th edition

During this meeting, the ten working groups also advanced on the content of the Road to Success book, with the objective of completing the chapters at the March 2016 Novel Construction session, and producing, in a format under discussion, the 4th edition of the book for the 50th anniversary convention in September 2016. An initial production meeting was held mid-November in London to review and establish the process for publishing this new edition.



Novel Construction Work Groups

The work groups and their leaders are as follows:

- **Bending**
directed by Geert Dieperink (Maats BV)
- **Coatings**
directed by David Jackson (Pipeline Induction Heat Ltd)
- **Earthworks & Crossings**
directed by Paul Andrews (Fluor)
- **Environment**
directed by Sue Sljivic (RSK)
- **Health & Safety**
directed by Alain Gauthiez (SPIECAPAG)
- **Logistics**
directed by Bruno Pomaré (SPIECAPAG)
- **New Trends and Innovation**
directed by Zuhair Haddad (CCC)
- **Planning & Design**
directed by Criss Shipman (Gulf Interstate Engineering)
- **Pre-Commissioning**
directed by Vincenzo Calabria (SICIM)
- **Welding & NDT**
directed by Jan van der Ent (Applus RTD)

We would like to thank all of those who participated and look forward to meeting you all again in March 2016 in Geneva, Switzerland.

Internal Pipe Bending

by Oliver Baum, isobend GmbH

Bending of thick insulated large diameter pipes has always been a problem. By bending from the outside the insulation gets damaged due to high forces.

Oliver Baum, CEO and co-founder of isobend GmbH presented an innovative solution for this problem at this year's plenary session. isobend provides its customers

an innovative technology to bend factory-made thermal-insulated pipes on-site. The new bending method is aimed to replace laborious, expensive and time-consuming solutions of the past and offers new opportunities for district heating and insulated pipes in general. Furthermore, isobend guarantees a high quality standard, which fully meets international rules. The young and innovative company was founded by isoplus Fernwärmetechnik GmbH and B&M Maschinenbau GmbH in Hanover (Germany) in the year 2012.



Smooth bend of thermal insulated pipe

Bending machines of isobend are built inside cargo containers and are therefore suitable for all modes of transportation. Moreover, they are equipped with latest electrical and mechanical engineering components. Once arrived on-site, the bending process can be started within a few minutes. During bending, a machine frame navigates into the pipe driven by motors and stops at the calculated bending points. The pipe is bent, step-by-step, while the process is continuously monitored. The bending is achieved by applying force to the inner pipe wall. Operated via touchscreen and supplied with the necessary data, recorded by various sensors during the entire process, the machine operates in a coordinated manner. As a result, bending is highly precise with a production tolerance $< \pm 0.2^\circ$. Even higher precision can be achieved if necessary. At the same time, the pipe and its thermal insulation remain protected, with no damage to the pipe or the insulation.

At the moment, bending service is focused on the district-heating market, but it will be extended to other markets in the next years. The existing bending machines are able to bend large diameter pipes from 18 to 32 inches with a



Bending machine in home position, ready to start

length from 6 to 18 meter. Other dimensions will be built for upcoming projects. The minimum bending radius depends on wall thickness and steel grade. Also the customer can determine the space in which the curve needs to be bent and is only restricted by the minimum bending radius. For technical reasons, both end segments of the pipe need to be straight. isobend guarantees that out-of-roundness of the pipe's diameter is limited to only about 2.5% of the initial diameter after bending. As well as factory-made thermal-insulated pipes, steel pipes without insulation can be bent fast and mostly automated. To provide top quality products and services to its customers, isobend has developed a comprehensive quality assurance system. This includes quality already in place not only at the design phase, but throughout the bending procedure and final inspection. This is achieved by the following measures:

- Computer-based calculations, e.g. the finite-element-method
- Order-related analyses and material inspection
- Ongoing monitoring throughout the bending process
- Final visual inspection
- Out-of-roundness check for pipe by means of gauge plate

Denys' Award Winning Onshore Automatic Vacuum Field Joint Blasting Machine

Patrick Berré, Denys

Denys presented its award winning onshore automatic vacuum field joint blasting machine during the November Novel Construction plenary sessions. This innovating machine has been developed in cooperation with Selmers, a manufacturer of pipe blasting and coating equipment.

Denys, specialised not only in pipeline and cable works, but also internationally experienced in tunneling works, water



The award winning onshore automatic vacuum field joint blaster

works, civil works, building works and restoration works, won the 2015 IPLOCA New Technologies Award sponsored by BP which was presented during the IPLOCA annual convention in Singapore.

As an expert in onshore construction of oil and gas pipelines, Denys had been using the conventional field joint blasting in day to day work. However, struggling with its time-consuming feature and potential quality, safety, health and environmental risks, they joined forces with Selmers to evaluate the process. They both agreed that Selmers' joint vacuum blaster for offshore industry could be adapted to the onshore pipeline construction and would remedy the shortcomings of manual joint blasting. The cooperation between Denys and Selmers resulted in a closed loop

vacuum blaster incorporating more than one advantage:

- Production of identical blasted joints considering roughness and cleanliness.
- Dust free design and reuse of the abrasive in the integrated abrasive reclaim system.
- High blasting capacity
- Installed on the pipeline under construction
- Result: cleanliness level SA2½ or better
- Clean process (minimal abrasive loss)
- Operator friendly
- Automated and remote controlled process
- Safe and environmentally friendly
- Low noise level in comparison to manual blasting
- Maintenance friendly
- Quick return on investment

First Pipelayers "PERFORMER GPL 980" Ready for Action for the TANAP Project

Fernando Piccinini, Euro Pipeline Equipment S.p.A.

Euro Pipeline Equipment S.p.A. is shipping its pipelayers PERFORMER GPL 980 and first units are leaving production facilities in Carpaneto (PC) – Italy, destination Turkey.

They have been bought by SICIM for the construction of the TANAP project, the new pipeline to supply gas from Azerbaijan, which currently has gas reserves for more than three trillion cubic meters, to Turkey and Europe. PERFORMER GPL 980 is the first project of the new line Performer by Europipeline Equipment which is characterised by the pursuit of performance and product innovation. The presence of the Bosch-Rexroth components and the Caterpillar Engine in fact guarantee the quality of the PERFORMER GPL 980 but SICIM has chosen PERFORMER GPL 980 for pipe laying operations primarily for its characteristics in terms of stability, manoeuvrability, traction force and economy in transportation costs. In fact, due to the innovation of its design, PERFORMER GPL 980 can be easily and quickly dismantled into parts. The specificity of the innovation is that it is a system for quick coupling and uncoupling of the tracked side frames, with respect to a chassis of the pipelayer. The system is simple, fast and safe.

The difficulties and costs related to the transportation and the handling of pipe layers are well known; they are mainly due to dimensions and weight. Traditionally, pipe layer transportation is done after removal of the boom and counterweight. After such an operation with a basic machine,





the chassis and tracked side frames remain as one piece. The dimension is quite huge, such as to create handling difficulties and high costs even when transported by ship. Transportability of side-booms had been identified as one of the requirements for the "ideal machine" functional specifications by the IPLOCA Novel Construction Initiative.

This new machine can create tangible savings in costs and time for contractors that choose to adopt it. The quick release system design makes it possible to enter the chassis into common open top containers. In fact the width



and weight allow the unit to be stowed away in an open top container. After the removal of tracked side frames, chassis dimensions and weight facilitate handling and transportation with a big saving in time and money. In the same way, the side frames, boom, counterweight and other components can be stowed separately in a simple open top container. In addition, the machine offers the possibility of lifting 98,000 kg and a full hydrostatic two speed automatic system. We are therefore confident that this new system can soon favourably meet the requirements of a large number of contractors.

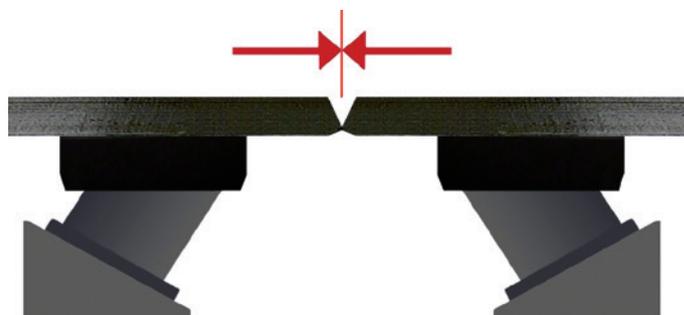
Magnatech Introduces

Internal Welder

Ralph Wijnholds, Magnatech Group The Netherlands B.V.

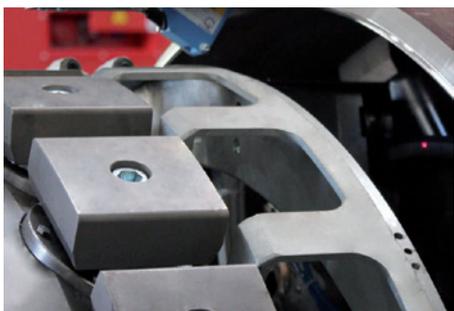
Magnatech is proud to introduce its internal welder with innovative patented welding technology.

The fully-electric operated internal welder with high capacity battery pack is equipped with a three-stage electro-mechanical clamping system, providing up to 600 tons clamping force, to increase roundness of pipes-ends and precise line-up. The angled clamping pistons are pushing pipe-ends towards each other

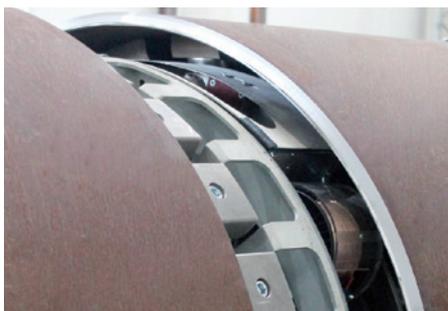


Angled clamping pistons providing closed joint fit-up

providing closed joint fit-up. Besides these and other cutting edge features, such as the fast drive system with automatic steering and levelling function, the pipe end



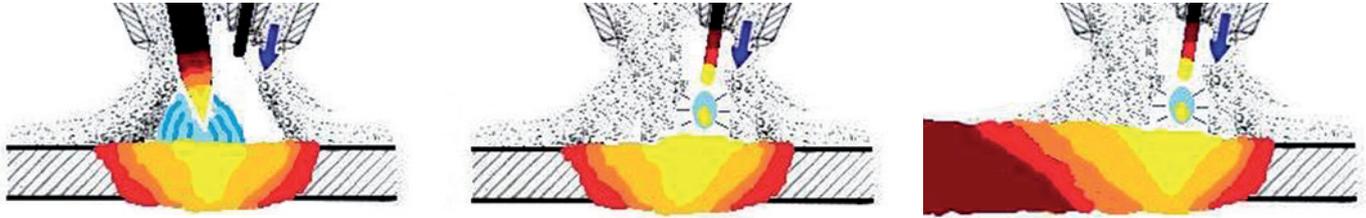
Laser aided weld path detection system



Joint fit-up in process



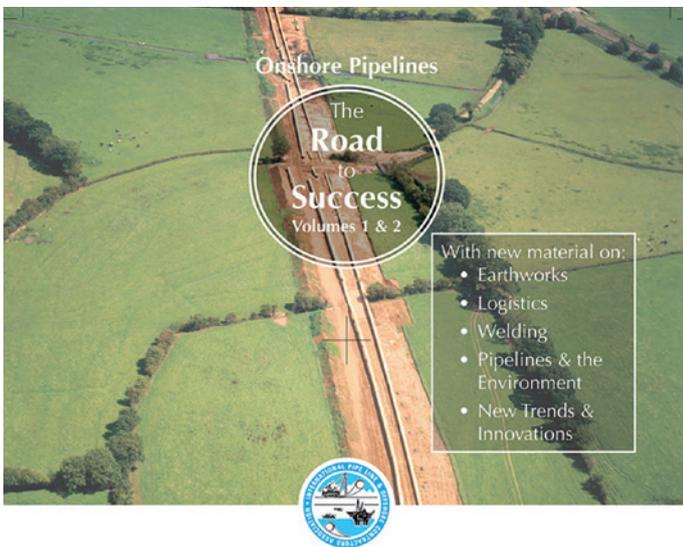
Final joint fit-up



Basic principle of patented welding technology.

detection system (PEDS) and conditioned cabinets for critical electronics, the machine is able to produce high quality welds at a highly efficient sequence. The very well-known defects at the start position resulting from insufficient penetration and lack of fusion are resolved by the new patented welding technology. The laser aided weld path system provides exact coordinates to

the independently controlled robotic welding heads. These innovative welding heads with automatic lead/lag angle adjustment, cross movement and height control, start with GTAW and create a full penetrating melting puddle. In a split second after, the system switches to P-GMAW and starts in the fluid puddle, generating fully fused starts.



which is often key to the success of a project. Some briefly discussed examples included:

- The importance of the governing law of the contract and an appreciation of how that underlying governing law has the potential to materially affect how the wording of the contract will be interpreted;
- The place / forum of the dispute. Having a perfectly drafted contract in every other respect may be of little comfort or assistance if you agree to a dispute being heard by an inappropriate and/or unreliable Court or Tribunal – usually one with a ‘local’ connection with the client;
- The consequences of a contractor failing to submit notices in accordance with contractual time limits which, if not complied with, bar the contractor from making its claim. Agreeing these types of clauses, with aggressively constrained notice periods, should be avoided if possible and otherwise done with significant caution ensuring that the project team will be equipped to cope with these requirements in the real world context of a live project. In practice, the constructive dialogue on the substance of the contractors claim is replaced with a sterile and non-productive debate about whether notice periods have been met, which only serves to make resumption of a mature and balanced commercial dialogue less likely;
- The importance of understanding the legal and longer term practical significance of contracting with States or State related entities.

The Road to Success

Some Legal Risks & Considerations Contributing to a Well-balanced Project

Adrian Elliott, Pinset Masons LLP

At the Autumn Novel Construction Meeting in Paris, Adrian Elliott of Pinsent Masons LLP gave a short presentation on some of the broader legal and contractual issues which should be kept in mind when entering into contracts for international pipeline projects, both because of the legal and practical difficulties which they may give rise to in the long term, but also because of the negative / unbalancing effect which such issues can have on the parties’ behaviour during the execution phase of the contract.

Such matters can, and all too often do, act so as to restrict or prevent a mature and balanced commercial dialogue taking place between client and contractor,

The Future Trends and Innovation Group are working on including some commentary on addressing / avoiding issues of this nature, which provide the broader legal backdrop to the consideration and allocation of project execution specific risks which are considered within the Road to Success’s Risks Matrix.

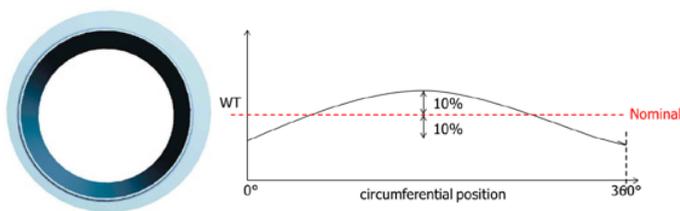
Developments in Automated Ultrasonic Testing

Related to Specification Requirements Related to Pipe Wall Thickness Variations

Jan van der Ent, Edwin van Kessel, Applus RTD

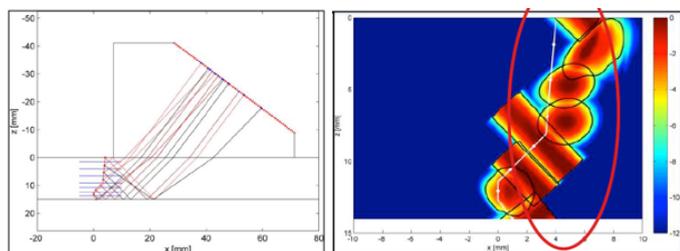
At the November Novel Construction Initiative meeting in Paris, Jan van der Ent from Applus RTD The Netherlands presented their latest innovation of the Rotoscan AUT inspection system that compensates for wall thickness variations being present in seamless pipes.

Many owner specifications and standards for the offshore industry have strict requirements for large tolerances on pipe wall thickness variations. On the basis of those requirements, a substantial number of reference blocks are required for pipes produced by an extrusion process.



Schematic pipe with wall thickness variation.

Reference blocks are used to calibrate the AUT system inspection functions. The inspection functions, visualised by the horizontal lines in the below left-hand figure, divide the weld volume into discrete depth zones. The red dots represent the target areas for the individual ultrasonic beams being applied to inspect the weld volume being affected by the wall thickness variations. In the left-hand figure the inspection functions are visualised by the red dots; the right-hand figure indicates what the effect/consequences of wall thickness variations are relative to the weld bevel profile (white line).

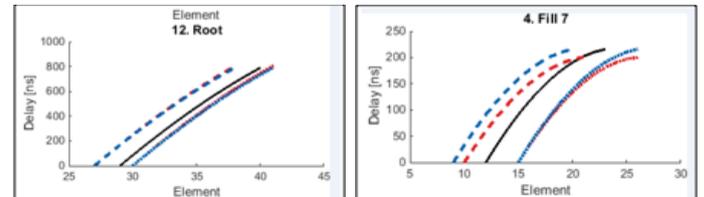


Schematic effect of wall thickness variations.

The number of reference blocks can be drastically reduced through the use of a software module that activates the Adaptive Focal Law Settings (AFLS) controlling the ultrasonic beam steering in function of the online wall thickness measurements. A feasibility study has been performed to investigate whether the system hardware, in combination with the AFLS software module can be used to comply with the standards & owner specifications.

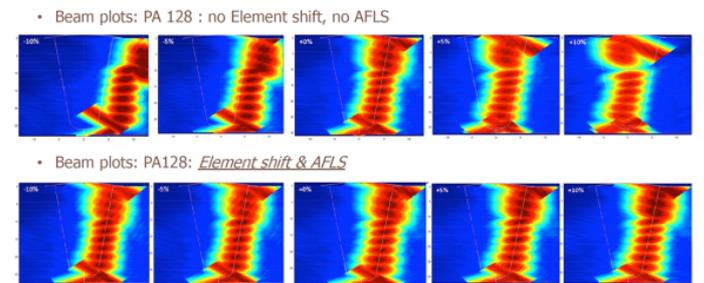
The following aspects have been investigated:

- Effect on Weld Bevel configuration positioning
- Effect on elements shift of the phased array probe
- Effect on using Adaptive Focal Law



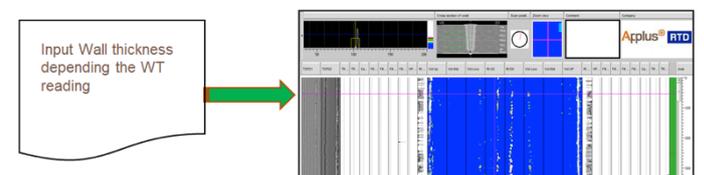
Results examples from AFLS study.

The feasibility study identified that the Rotoscan AUT system with AFLS functionality is capable of complying with the Standards & Owner specifications. The result of the AFLS functionality is visualised in the below simulation identifying the correct positioning of the ultrasonic beams within each depth zone when the AFLS is applied.



Results identifying the effect on using of AFLS

During the actual Pipeline Girth Weld inspection the AUT results are presented onto one (1) presentation screen as a function of the measured on-line wall thickness.



Schematic AUT result presentation AFLS in function of Wall Thickness On-line measurements

The Rotoscan AUT AFLS functionality enables not only cost savings during preparation and operations, but also increases quality by reduced complexity for AUT Operators. The AFLS methodology integrated into the Rotoscan system has been subject to a successful third party qualification, witnessed by DNV-GL in accordance to DNV OS-F101:2013 and DNV RP-F118:2010 specifications.

Upcoming Events

UCT - Underground Construction Technology International Conference & Exhibition
3-4 February 2016 - Atlanta, GA, U.S.A.
www.uctonline.com

DCA 55th Convention
15-19 February 2016 - Naples, FL, U.S.A.
www.dcaweb.org

PLCA 68th Annual Conference
23-27 February 2016 - Scottsdale, AZ, U.S.A.
www.plca.org

PIG - Pipeline Industries Guild Dinner
8 March 2016 - London, U.K.
www.pipeguild.com

Pipeline Opportunities Conference
22 March 2016 - Houston, TX, U.S.A.
www.pipeline-opportunities.com

IPLOCA HSE Committee Meeting (HSE Members only)
30 March 2016 - Geneva, Switzerland
www.iploca.com



IPLOCA Novel Construction Initiative Spring Session
31 March - 1 April 2016 - Geneva, Switzerland
www.iploca.com



Hannover Messe
25-29 April 2016 - Hannover, Germany
www.hannovermesse.de

Pipeline Technology Conference
23-25 May 2016 - Berlin, Germany
www.pipeline-conference.com

PLCAC 62nd Annual Convention
29 May - 2 June 2016 - Charlottetown, PEI, Canada
www.pipeline.ca

IPLOCA Workshop on Safety Assessment Efficiency
23 June 2016 - Geneva, Switzerland
www.iploca.com



IPLOCA 50th Annual Convention
12-16 September 2016 - Paris, France
www.iploca.com



Other Important IPLOCA Dates

Member News for IPLOCA March Newsletter
15 January 2016 - Deadline for submissions
Email caroline.caravellas@iploca.com



In memory of Karl Trauner

It is with deep sadness that we inform you of the death of IPLOCA past president and board member, Karl Trauner, who passed away peacefully on 26 October, following a severe illness.

We received many testimonies, from current and past IPLOCA board directors, of Karl's personality and friendship. To many he was "a real gentleman, and a good friend who has left us, way too early". "Karl has been a great MD and a reliable and positive friend." "We lost a friend, IPLOCA lost a good past president."

Past president, Adam Wynne Hughes (Pipeline Induction Heat), summed up his feelings, "Having worked on the Board with Karl, as his former president, I was privileged to see his hard work and commitment to IPLOCA along with a true love of life."

Osman Birgili (Tekfen Group) wished to convey the following: "I worked with Karl on the IPLOCA Board for four years and took the presidency from him in Beijing in 2011. From the first day we met, his soft and polite approach to people encouraged me to approach him as well. Doing so, I discovered a wonderful man, a very good businessman and a true friend."

Equally, Executive Secretary, Juan Arzuaga and his wife Alejandra only have words to recognise his kindness: "How not to become so close -as we did- to someone like Karl. We have shared precious times with Christine and his family. We, and IPLOCA, will always treasure every moment spent with him."

Osman continued, "His fight against the devastating sickness he has been suffering from for the last 4 years was an example of endurance and courage. He did everything to overcome it, but lost - with grace. Last August, we spent 3 days together in Salzburg with our wives, yet to discover his hospitality. Although he seemed to be tired at times, he did everything to make us happy, even driving us places."

When he did not show up in Singapore for our convention I called to tell him how much we missed him. Although his voice on the phone told me everything, he was hopeful that we would meet again either in Vienna or Istanbul. Christine and the entire Trauner Family should know that our IPLOCA family will always be there to stand by them."

Dear Karl, we will miss you!

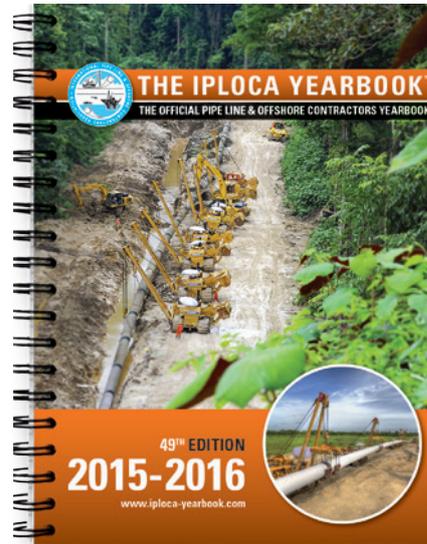
IPLOCA Yearbook

49th edition

As this Newsletter is being published, the 49th edition of the IPLOCA Yearbook is being distributed worldwide to the desks and in the field offices of pipeline companies.

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



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

Yearbook listing changes

Please note the following listing changes for IPLOCA Regular Members, since the new edition went to print:

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2015-2016



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