



THE IPLOCA NEWSLETTER

SEPTEMBER 2014

2013 HSE STATISTICS
REPORTS INCLUDED



Abu Dhabi Convention Update

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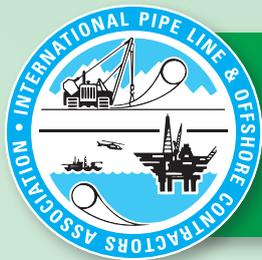
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The Group



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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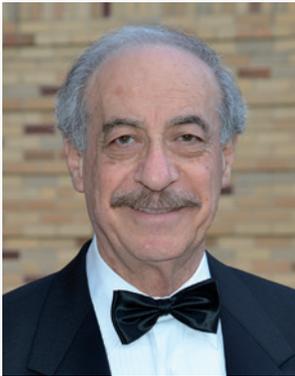
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Courtesy of Bonatti S.p.A.

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Letter from the President

Dear members and friends,

As you are reading this, we are fast approaching the highlight of the IPLOCA year, our Annual Convention. This year's Convention will offer you the opportunity again to meet face to face with peers, suppliers and old and new friends. As always we have engaged some excellent speakers for the Open General Meetings.

Registration for Abu Dhabi was at more than 600 right before going to press. Do not forget to register for a very special event on Wednesday afternoon: a true Arabian Adventure with camels, tents, sand surfing and many more desert delights is offered to all attendees by CCC and NPCC.

In June we held a board meeting in Marseilles. Director-at-Large Bruno Maerten welcomed us and showed us around in his home town. More information on the outcomes and proceedings are on page 5 and 6 of this newsletter.

Following the call for submissions for the IPLOCA Health and Safety Award, sponsored by Chevron and the IPLOCA Environmental Award, sponsored by Shell, we received many high quality presentations. More information on the awards is on page 14.

It has been a busy and rewarding year for IPLOCA with emphasis on the work of the committees. The Client Engagement Committee produced a tool allowing members to actively approach clients to engage with IPLOCA. The members of the Scholarship Committee are finalising the IPLOCA Scholarship Program (page 5). Last but not least, the HSE Committee has been particularly busy: a high quality, well attended workshop was held in Geneva in July. It recently reviewed the health & safety and environmental statistics received. The return rate for both remains very high, 97% and 70% respectively. You can find copies of the statistics reports with this newsletter.

It has been an honour and privilege for me to serve as your president. I would like to take this opportunity to thank all of our members and friends and in particular the 2013-2014 Board of Directors for their support and commitment to IPLOCA.

Be well and I look forward to seeing you all in Abu Dhabi!

Warm wishes,

Najib Khoury

IPLOCA President 2013-2014

News from Geneva

With just a few weeks left before we depart for Abu Dhabi, we are working hard on final arrangements to ensure that everything is ready for the big event.

Nathalie Krieg, our administrative assistant, will leave IPLOCA before Abu Dhabi to move back to her native town of Munich. We will miss her and wish her all the best!

During the Convention, we can count on the support of Emma Hachfeld, who recently graduated from the Ecole Hôtelière de Lausanne with a bachelor's degree in International Hospitality Management. Most of you will have met her at last year's convention in Washington, when she was with us as an intern. You will have the opportunity



to meet Emma again at the Convention and at the other IPLOCA meetings scheduled for the rest of 2014 in Geneva.

Board Meeting Update

The June Board of Directors meeting was held in Marseilles from 3 to 7 June. Following are highlights from that meeting:

HSE Committee

The HSE Committee meeting was held on 26 March in Geneva. The Health and Safety as well the Environmental Statistics were reviewed. We have received 87 per cent returns for H&S and 62 per cent for the Environment. Instructions to fill in the return forms will be translated into other languages and an electronic form will be studied to provide more data restrictions and facilitate putting them all together. A workshop on High Potential Incidents will take place at the Movenpick Hotel, Geneva, on 2 July 2014. Dianne Stober from C. Cubed Concepts has been contacted to conduct it (a summary from the workshop can be found on page 15 of this newsletter).

Scholarships Committee

The goal is to develop the scholarship programme, define cost and to propose it to the Board of Directors in Abu Dhabi. It will then be brought to the Annual General Meeting (AGM) for approval.

New Technologies Committee

The Novel Construction Initiative Sessions were held on 27-28 March in Geneva with 45 participants. Six new developments presented are available on the IPLOCA website and a summary of some presentations can be found on page 17 of this newsletter. The fall Novel Construction Initiative Sessions are scheduled for 5-6 November 2014 in Geneva.

Research Projects

The research projects which IPLOCA is supporting financially are making good progress and will be finalised this year.

- Lowering-in Stresses: A Mitigative Strategies Report is underway.
- Pipeline Route Selection: A report has been issued for final review.

The idea is to continue the collaboration on the second phase of the Lowering-in Stresses.

New Award

The guidelines for the Excellence in Project Execution Award are being finalised.

Client Engagement Committee

The Client Engagement Committee will finalise client presentation with input from Board of Directors and start discussions with clients before the convention in Abu Dhabi.

Minutes of the Miami Meeting

The minutes from Miami were reviewed and approved.

Treasurer's Report

Harald Dresch showed the Audit Report from 2013 and requested formal approval of the financial statement. A copy of the audit report was made available to those who were interested in consulting it with him. He then presented the Q1 forecast and noted that more members are having difficulties paying their fees this year.

Applications for Regular Membership approved

- **Quanta Services Australia**, Australia
www.quantaservices.com

Applications for Associate Membership approved

- **Uponor Infra Ltd.**, Finland
www.kwhpipe.com
- **Delta Machinery**, The Netherlands
www.deltaheavyequipment.com

Name changes

- **NPO Spetsneftegazt to TKC-Holding.**

Resignation received

- **Liaoh Oilfield First Construction Company**, China.

Elections

The list of vacant seats for October was reviewed. More information on the elections can be found on page 14 of this newsletter.

Abu Dhabi Convention

Over 650 people are expected to attend the Abu Dhabi Convention and commitments have been received for sponsorship. A few items are still available for sponsorship. Due to local regulations, there will be no lottery this year.

Convention in Paris

The Convention hotel will be undergoing renovation and it will not be finalised as originally reported: the refurbishment

will not be finalised by September 2015. The Board of Directors agreed to hold the Convention in Paris in 2016, at the time of IPLOCA's 50th anniversary. Another destination in the East and Far East region was discussed for the 2015 Convention. A final decision has to be made in July 2014.

Regional Meeting

Jan Koop and Harald Dresch held a meeting on 19 March near Munich and several clients attended. The meeting included a visit to Bauer Maschinen. All attendees expressed interest in having this meeting again in two years.

Quotations for security risks assessment

The purpose in seeking a proposal was to secure help in evaluating risk in various countries/locations, rather than for healthcare or other personal support. Quotes were obtained from two companies but the Board decided not to proceed with this.

IPLOCA Anniversary

The Secretariat presented a marketing plan for the celebration of IPLOCA's 50th Anniversary.

Any other business

The Board of Directors agreed to the development of an IPLOCA yearbook mobile application.



The Board of Directors, Jacquelin de La Porte des Vaux and Liz Spalding (at her last Board Meeting) enjoying a view of Marseilles at sunset

Member News

Arendal Mexico Signs a Contract With TAG to Build 450 km of 42" Pipeline Including two Compressor Stations

As part of a very large pipeline expansion happening in Mexico, Arendal (Mexico) with its partners Odebrecht (Brasil) and Techint (Argentina) was awarded the EPC for Ramones II Norte Project consisting of building 450 km of 42" pipe in the Northeast part of the Country. The project will also include building two compression stations. Phase 1 including the pipe and one station will be delivered on Nov 2015, Phase 2 is the second station to be delivered on May 2016. The Project is part of an 846 km pipeline for TAG (a Pemex subsidiary) that will transport in the order of 2.1 MMCUFT/day. Arendal's section route is across the Mexican states of Nuevo Leon, Tamaulipas and San Luis Potosí, including a mountain section through the Sierra Madre.

Powerful New Version of a Proven Shaft Enlargement Technology

Herrenknecht AG has developed a next generation of the rodless shaft enlargement machines that have been established on the market for decades as so-called V-Mole technology. Herrenknecht worked closely together with two very experienced companies highly renowned in the mining industry, Thyssen Schachtbau and Murray & Roberts Cementation, to update and adapt the technology to current conditions and requirements. The result is the SBE (Shaft Boring Machine for Shaft Enlargement). It facilitates high sinking speeds and maximum working safety for shaft boring using the pilot borehole.

Bredero Shaw Wins Pipe Coating Contract for SCPX Project

ShawCor's pipe coating division, Bredero Shaw, has received a contract with a value of approximately USD70 million from BP Exploration (Shah Deniz) Ltd. for and on behalf of the South Caucasus Pipeline Company Ltd. for coating services for the South Caucasus Pipeline Expansion (SCPX) project. The objective of the SCPX Project is to expand the capacity of the existing SCP system to accommodate additional gas throughput from the Shah Deniz Stage 2 development in the Azerbaijan sector of the Caspian Sea. This contract involves coating approximately 491km of predominately 48 pipe with 3-Layer Polyethylene and internal flow coating. Coating is expected to commence in 2014 and be completed in late 2015. ShawCor Ltd completed the acquisition of all of the outstanding shares of Desert NDT LLC ("Desert"), for a total consideration of approximately USD260 million, subject to adjustment for changes in working capital. Desert is a Houston-based provider of non-destructive testing services

for new oil and gas gathering pipelines and infrastructure integrity management services. Desert operates through 18 branches located in major U.S. oil and gas basins.



Willbros Names Brad MacLean as Chief Talent Officer

Willbros Group, Inc. is pleased to announce the promotion of Brad MacLean to the position of Chief Talent Officer. Mr. MacLean will become a member of the Willbros Executive Leadership Team (ELT) and will report to Earl Collins, President of Willbros Group. As Chief Talent Officer, Mr. MacLean will be responsible for creating and implementing strategies in support of attracting, developing and retaining the best talent in the industry. In this newly created position, Mr. MacLean will drive internal best practices in areas such as cultural stewardship, recruiting, succession planning, performance management, employee engagement, labor relations and leadership development. Brad MacLean, currently Senior Vice President of Enterprise Support, joined Willbros in 2008 as Vice President of HSE&S. Since 2008, he has been instrumental in greatly improving Willbros' safety performance. Mr. MacLean has approximately 25 years of experience in the energy sector with progressively senior positions at companies specializing in electrical transmission & distribution, pipeline construction and natural gas transmission, distribution & storage. His background spans operational, corporate and construction assignments in Canada and the United States. Mr. MacLean has an applied science degree from the University of Cape Breton. He has also had advanced executive-level Human Resource studies at the Kenan-Flagler Business School (UNC) and the Anderson Graduate School of Management (UCLA).

Technip Awarded Renewal of Subsea Services Framework Agreement With Statoil, Exxon Mobil & Gassco

Technip was awarded a new framework agreement by Statoil, Exxon Mobil and Gassco for diving, subsea intervention and repair contingency services. Under the terms of this framework agreement, a replacement of an existing frame agreement held for eight years, Technip will provide these services for the next four years. This contract, effective from December 1st 2014, also includes an option for additional periods up to seven years. The services comprise diving and remote operations using the Group's dedicated diving support vessels (DSVs) and/or construction vessels. The area of operation includes continental areas from the Barents Sea to the Mediterranean Sea, the Baltic Sea and North Atlantic Ocean as well as Newfoundland, Canada. The area of operation may

be extended globally based on Statoil's future requirements. Technip's operating center in Stavanger, Norway, will administrate and execute the projects under this framework agreement, supporting Statoil on demanding projects requiring saturation diving, air diving and/or equipment spreads from the Pipeline Repair System (PRS) Pool.

Technip Awarded LNG Plant Contract in China

Technip has been awarded an engineering, procurement and technical assistance contract by Fengzhen Wanjie Gas Co. Ltd. for a liquefied natural gas (LNG) plant in Fengzhen City, Inner Mongolia Province, China. The plant will consist of 1.3 million Nm³/day(1) LNG train (0.35 Mtpa) and a 0.3 million Nm³/day Compressed Natural Gas (CNG) station. The contract covers basic engineering design (BED) of the process plant, BED and detailed engineering design of a LNG tank, procurement of key equipment such as the main cryogenic heat exchanger, mixed refrigerant compressor, boil-off gas compressor, LNG in-tank pumps, cryogenic control and on-off valves. The LNG plant will be based on an Air Products liquefaction process. Technip's operating centers in Shanghai, China, and Kuala Lumpur, Malaysia, will execute the contract with plant start-up scheduled for the second half of 2016.

Lincoln Electric Licenses NanoSteel's Weld Overlay and Thermal Spray Technologies

Lincoln Electric and The NanoSteel® Company announced that Lincoln Electric has been granted an exclusive worldwide license to NanoSteel's proprietary steel coatings technology for weld overlay and thermal spray applications. This agreement expands Lincoln Electric's range of wear-resistant products, which complement the company's core arc welding, cutting and automation solutions. For more than 12 years, NanoSteel has developed innovative iron-based alloys in various forms to advance steel's capabilities in multiple markets. The company will continue to develop and market its engineered powders and automotive sheet steel portfolio outside this agreement. During the transition period, NanoSteel and Lincoln Electric will work together to ensure consistent product availability and customer support.

Fluor Wins LNG Terminal Contract in Rotterdam

Fluor Corporation was awarded a contract by Gate Terminal BV, a subsidiary of Dutch Vopak and Gasunie, to design and build a liquefied natural gas (LNG) break bulk terminal in Rotterdam, the Netherlands. Break bulk terminals split up large-scale LNG shipments into smaller quantities to facilitate the distribution of LNG to be used as fuel for ships and heavy trucks. Fluor will provide engineering, procurement and construction management services for the jetty, loading

facilities, boil-off gas compressors, connection to the LNG terminal and other facilities. The contract for an undisclosed value will be booked in the second quarter of 2014.

Vacuworx Honored with Governor's Award for Excellence in Exporting

Vacuworx has received the 2014 Governor's Award for Excellence in Exporting. Vacuworx President Bill Solomon accepted the award, presented April 10 by Oklahoma's Secretary of State Chris Benge on behalf of Governor Mary Fallin. The export award was created to recognize the achievements of small- to medium-sized companies that have successfully entered the worldwide marketplace. Tulsa-based Vacuworx was nominated based on its commitment to investing in logistical, environmental and cultural resources and meeting fast-growing worldwide demand for reliable and economical material-handling solutions.

CRC-Evans Pipeline International, Inc. Announces Distribution Partnership With LaValley Industries

CRC-Evans Pipeline International, Inc. officially announces its distribution partnership with LaValley Industries, best known as the manufacturer of the innovative DECKHAND® pipe handling product line. As part of the partnership, CRC-Evans expands its already broad portfolio to become the exclusive global distributor of LaValley Industries' DECKHAND systems to the pipeline industry. Manufactured in Bemidji, MN, the DECKHAND product line is comprised of a patented, modular design able to perform a number of crucial functions – including pipe handling, road mat handling and weld positioning. DECKHAND's solution can be universally applied across all excavator manufacturers, and dramatically improves safety and efficiency for project crews by mechanizing the basic, necessary task of pipe handling. CRC-Evans assumes the position as exclusive distributor of the DECKHAND product line, after an amicable end to the previous, five-year partnership between LaValley Industries and PipeLine Machinery International (PLM). Maintaining its long-standing partnership with the trusted global dealer, CRC-Evans will continue to source excavators from PLM, as well as various other innovative industry solution providers.

Goriziane Group Designs and Manufactures a "Portable Factory"

An innovative project commissioned to Goriziane Group over a year ago by the English company Subsea7, one of the leading global players in the offshore sector. The plant created, currently unique in the world, is a totally new concept of a classical system called "Double Joint" for the joining in line of pipes for the construction of subsea

pipelines to transport the gas and/or crude oil. The real innovation was in the ability to engineer a so complex system within a modular structure designed as a true “Portable Factory”; able to operate both onboard a pipe lay vessel and in projects to be carried out on land (onshore) at the dock or near the sea. The “Portable Factory” is housed in two large steel modules of more than 400 tons each, which have been loaded and coupled onboard of the pipe-laying Vessel “Borealis” by means of a powerful crane with thousands of tons lifting capacity. The two modules are complete with all the equipment, tools and accessories needed for the manufacturing process. A working area of 1200 square meters, which will operate in full compliance with the most sophisticated standards of quality and safety for the welded joint and coating of pipes up to 42” diameter. A figure that can give an idea of the complexity of the system: within the two modules were laid more than twenty kilometers of electrical cables. Once the modules are installed and plugged, the operators will only have to start producing. All control and automation systems are perfectly integrated with the rest of the equipment of the ship.

Lifetime Achievement Award for Ruth Michels



Ruth Michels was awarded the University of Wisconsin-Madison Construction Club’s Lifetime Achievement Award on Friday, April 25 at the Wisconsin Institutes for Discovery. Ruth Michels is CEO and chairman of the board of Michels Corporation, and leads the company with her sons. Michels Corporation is one of the largest and most diversified utility contractors in North America. Michels Corporation is 36th on Engineering News-Record’s 2013 list of the top 400 Contractors in the United States. The prestigious award recognizes an elite few who have made a mark on the construction and engineering fields. Honorees are chosen by UW professors, students and industry representatives. The construction industry has been a lifelong love, Ruth Michels said, and she will extend the company’s commitment to its future. “In coming years, Michels Corporation intends

to raise its visibility and participation in the University of Wisconsin Construction Club,” she said. “I am very much looking forward to this initiative and will personally look for opportunities to support the club in the future.” Ruth Michels and her late husband, Dale, along with two business partners, founded Michels Pipeline in 1959 in Brownsville. About 30 years later, Ruth and Dale Michels bought out their partners to become, and remain, a single family owned and operated business. Michels has grown to include 6,000 employees, 10,000 pieces of heavy equipment and 14 divisions that work from coast to coast and in Canada. In addition to being active in the business, Ruth Michels is committed to giving back to the community and oversees the Dale & Ruth Michels Family Foundation, a charitable organization that has given millions of dollars to educational institutions, medical facilities and community organizations. She was the first woman to receive an honorary membership to the Distribution Contractors Association and also received the Fond du Lac Area Women’s Fund Women of Achievement Award.

Van Oord Wins Orders in Brazil and in the Bahamas

Van Oord has won two orders in Brazil and the Bahamas. The activities involve dredging work for the construction of a new shipyard in Aracruz, Brazil. The client is Estaleiro Jurong Aracruz (EJA), a Brazilian subsidiary of Sembcorp Marine’s Jurong Shipyard from Singapore. In the Bahamas, three ports will be upgraded on the instructions of the Ministry of National Security as part of the Sandy Bottom Project. Both orders have a joint contract value of more than EUR 100 million. The execution of both projects has already started. The project in Brazil will be completed in late 2014. The work in the Bahamas will be completed in early 2016.

WorleyParsons wins EPCM contract for Trans Anatolian Gas Pipeline

Trans Anatolian Natural Gas Pipeline Co. (TANAP) awarded WorleyParsons a five-year contract for the engineering, procurement and construction management (EPCM) services for the 1,841-km Trans Anatolian Natural Gas Pipeline Project, which has an estimated total cost of USD11.7 billion. TANAP pipeline is designed to transport Caspian natural gas from the Georgian-Turkish border to Turkey’s western border with Greece. Initially it will carry production from Azerbaijan’s Shah Deniz Stage 2 project. The contract includes provision of project management, coordination, planning, design, project controls and other services for construction of the pipeline and related facilities including compressor stations. TANAP General Manager H. Saltuk DÜZYOL said, “This contract is critical to the success of this major link in the Southern Gas Corridor which is regionally significant to meet future gas demand in both Turkey and the European Union.”

Membership Centre

The following members were recently accepted by the IPLOCA Board of Directors as new members of the association:

New Regular Member



Quanta Services Australia Pty Ltd (QSA) is owned by Quanta Services, Inc., a leading specialized contracting services company, delivering comprehensive infrastructure solutions for the electric power and oil and gas industries throughout North America and in certain international markets. Quanta Services Australia delivers specialty infrastructure services in Australia through its standalone operating companies, consisting of EPC contractor Nacap Australia Pty Ltd, which services

the LNG, oil, gas and mining sectors; HDD contractor Coe Drilling Pty Ltd and Mears Integrity Solutions, who provides infrastructure integrity services for the pipeline industry. Collectively these companies provide turn-key solutions either on their own or as part of the integrated QSA brand.

Their flexible approach provides their clients with unique construction driven solutions that are almost entirely self-performed by experienced professionals.

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New Associate Members



Delta Machinery was founded in 1987. For over 25 years the company's main business activities include sale, rent and/or lease rent of used, new and refurbished earthmoving equipment, quarry and mining and pipeline construction equipment. Its extensive machinery experience, allows Delta to provide whatever assistance may be requested, regardless of location.

Dedicated technicians specialize in travelling on short notice to assist customers in commission, training and maintenance of new Delta products and all other machinery supplied by Delta Machinery anywhere in the world. Delta Machinery's two locations in The Netherlands are strategically located near the ports of Moerdijk, Antwerp, Rotterdam and Zeebrugge.

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Uponor INFRA LTD has more than 60 years of experience in the plastic piping and plastic processing equipment industry and operations in more than 30 countries. It offers its customers solutions that are sustainable and safe and reliable to own and operate.

Its Technology department (former KWH Pipe) is supplying equipment such as welding-, pipe cutting- and polyurethane foaming machines and other technology solutions for the plastics industry worldwide. The Wehocoat robot technology developed by Uponor Infra Technology focusses on the Field Joint Coating for the Oil & Gas industry. There are different type of coating robots with 2 or 3 -layer PE or PP for the onshore and the offshore field joints.

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Elections

to the Board of Directors

Listed below are the vacant seats for next year's Board of Directors. Election meetings will be held during the convention on Thursday afternoon, 16 October, at the Ritz Carlton Abu Dhabi, Grand Canal.

Responsibilities of Board Membership

By running for election to the IPLOCA Board of Directors candidates agree to fully support the organisation and its mission through regular attendance with their spouse at Board meetings and active participation in meetings and events, including four Board meetings a year that require international travel. Please note that an absence from any two consecutive meetings, or a total of three meetings during the two-year term of your Board membership will result in automatic dismissal from the Board of Directors.

Proxies

Those member companies unable to send a representative to Abu Dhabi may submit a proxy vote.

This must be made on the designated Associate Member Proxy Form or Regular Member Proxy Form found at www.iploca.com/elections. If you are a Regular Member or Associate Member carrying a proxy vote, a copy must be delivered to the Executive Secretary three days in advance of the Annual General Meeting (AGM) – by Tuesday, 14 October, in order to be valid. The slate of nominations to the Board of Directors will be presented to the membership for ratification on Friday morning, at the Annual General Meeting.

Geographical Areas

A list of member companies in each Geographical Area and the names of the incumbent or outgoing directors are available at the links below:

East & Far East: www.iploca.com/eastandfareast

Europe Central: www.iploca.com/europecentral

Europe Eastern: www.iploca.com/europeeastern

Europe Mediterranean: www.iploca.com/europemediterranean

Europe Northwest: www.iploca.com/europenorthwest

Middle East & Africa: www.iploca.com/middleeastandafrika

America North: www.iploca.com/americanorth

Latin America: www.iploca.com/latinamerica

Election Meeting/Voting Schedule (Abu Dhabi) Thursday, 16 October

Meeting Time	Location	Geographical Area / Associate Members	Director	Status at Abu Dhabi
15:30 - 16:00	Napoli 2	Europe Central	Harald Dresp	Vacant seat
			Jan Koop	Vacant seat
15:30 - 16:00	Napoli 3	Europe Eastern	Kaan Dogan	Vacant seat
			Yury Komarov	2 nd year conf.
15:30 - 16:00	Napoli 4	Europe Mediterranean	Jean Claude Van de Wiele	Incoming President
			Roberto Castelli	2 nd year conf.
15:30 - 16:00	Napoli 5	Europe Northwest	Adam Wynne Hughes	Vacant seat
			Vacant	Vacant seat
15:30 - 16:00	Napoli 1	Associate Members	Greg Miller	Vacant seat
			Gerry Grothe	2 nd year conf.
			Michael Rae	Vacant seat
16:00 - 16:30	Napoli 2	Latin America	Jésus Garcia Pons	Vacant seat
			Vacant	Vacant seat
16:00 - 16:30	Napoli 3	Middle East & Africa	Najib Khoury	Immediate Past President
			Ibrahim Zakhem	Vacant seat
			Vacant	Vacant seat
16:00 - 16:30	Napoli 4	East & Far East	Atul Punj	1 st Vice President
			Jim Frith	2 nd year conf.
16:00 - 16:30	Napoli 5	America North	John Tikkanen	2 nd year conf.
			Scott Summers	Vacant seat

Abu Dhabi

Convention Update

Meet & Greet Service at Abu Dhabi International Airport (AUH)

If you are arriving at Abu Dhabi International Airport on Saturday or Sunday, 11 or 12 October, look for the IPLOCA logo signage in the arrivals hall where hosts will greet you and accompany you to buses for complimentary transfer to the Ritz Carlton Abu Dhabi Grand Canal. Courtesy of Punj Lloyd.

If you plan to take advantage of the Meet & Greet service you must, of course, provide your detailed flight arrival time in advance via the online registration system so that we can ensure that you have a place on the bus. Complimentary return transfers to Abu Dhabi International Airport (AUH) have been arranged for Saturday and Sunday, 18 and 19 October, courtesy of UniversalPegasus International, Inc. Bus transfer times will be listed in the back of the pocket program that you will receive in your registration package.

Again, you must let us know via the online registration system if you plan to use the return bus transfer so that we can ensure that the appropriate number of vehicles is available.

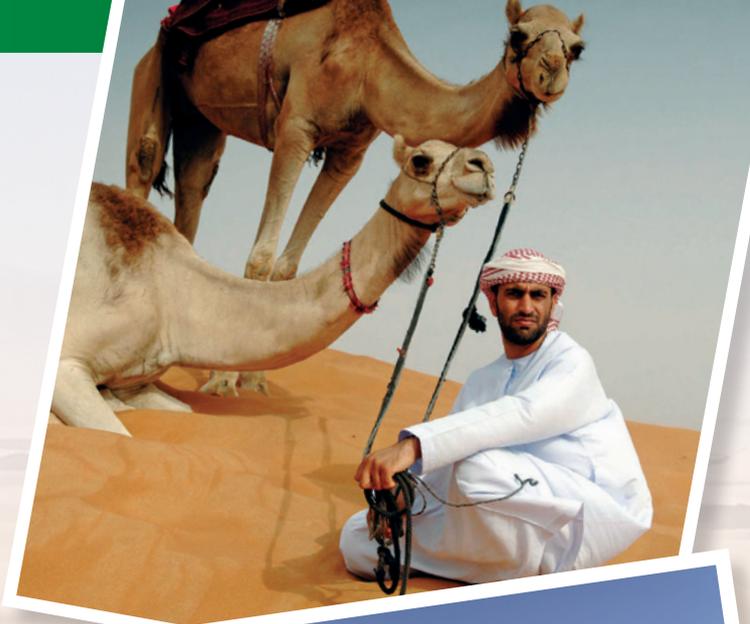
Do you need a visa?

Before travelling to the U.A.E., citizens of foreign countries may need to acquire a visa through our ground agent Ovation, your local U.A.E. Embassy or Consulate, Etihad Airlines, or the Ritz-Carlton Hotel. As the process of obtaining this visa can be lengthy, it is recommended to start this process as early as possible.

Dress code - what to pack?

Abu Dhabi is tolerant and all visitors are welcome. However, Islam is a way of life in the city and therefore visitors should adopt a certain level of cultural and religious sensitivity for the duration of their stay.

While dress codes are fairly liberal, swimwear should only be worn on beaches or at swimming pools. Any form of nudity is strictly forbidden, including topless sunbathing. When visiting shopping mall and other attractions visitors



should wear clothing that is not too tight, transparent or revealing and are kindly requested to cover shoulders and knees. Certain attractions, such as mosques or religious sites, usually have stricter dress codes requiring both men and women to cover up bare shoulders, arms and legs, and women to wear headscarves. As a courtesy to the local culture the hotel observes a Smart Casual Dress Code. The hotel requests that in the evening guests refrain

from wearing flip-flops, athletic apparel, torn clothing and backpacks as well as sleeveless tops for men and denim shorts for ladies. Men are required to wear long trousers and closed shoes.

Please note: for IPLOCA's private events only, the IPLOCA Dress Code will apply.

Recognition for our Generous Sponsors

Thank you to the sponsors who support the Abu Dhabi Convention. Our sincere thanks go to all of them for their generosity and support. There are still a few items available! If you wish to join the list of sponsors

it's not too late to contact caroline.green@iploca.com. We will work with you to maximize your company's visibility during the Convention.



2014 IPLOCA Health & Safety Award



Sponsored by Chevron

The 2014 IPLOCA Health & Safety Award sponsored by Chevron will be presented at the Abu Dhabi Convention.

The Award recognises initiatives aimed at improving the health and safety of the pipeline industry, including submissions such as:

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

Entries were received from the following companies:

- **Bonatti S.p.A, Italy**
Improving safety with an automated information system for vehicle and equipment integral remote safety control
- **Bredero Shaw, U.S.A.**
An innovative approach to engaging our workforce in pursuit of incident and injury free performance
- **Consolidated Contractors Group (CCC) SAL, Greece**
Behavioral observation and intervention program
- **China Petroleum Pipeline Bureau, China**
Managing Safety in the Narrow Construction ROW
- **China Petroleum Pipeline Bureau, China**
There is no best, only better for HSE

- **China Petroleum Pipeline Bureau, China**
Territory-based Safety Management System
- **Gulf Petrochemical Services & Trdg. LLC, Oman**
We care for Employees
- **J. Murphy & Sons Limited, U.K.**
Murphy Culture Development Programme
- **Nacap Australia Pty Ltd, Australia**
Plant Assessor Initiative
- **Nacap Australia Pty Ltd, Australia**
Journey Management System Initiative
- **National Petroleum Construction Company (NPCC), U.A.E.**
Behavior-Based Safety Program
- **SAIPEM S.p.A., Italy**
SAIPEM leading behaviours: driving cultural change through management commitment and social influence. An innovative multi-directional approach to embedding behaviours
- **SAIPEM S.p.A., Italy**
Road Transport Safety
- **Sicim, Mexico**
Designing safety in steep slope pipeline installation
- **SPIECAPAG, France**
Removable Guardrail for Sidebooms and Tractors
- **SPIECAPAG, France**
Near Miss Management on PNG LNG Project
- **Techint Engineering and Construction, Peru**
Malaria Prevention and Mitigation Program
- **Technip Germany GmbH, Germany**
12 Safety Actions
- **Vacuworx, U.S.A.**
The Vacuworx HDD Pipe Handling System

2014 IPLOCA Environmental Award



Sponsored by Shell

The 2014 IPLOCA Environmental Award sponsored by Shell will be presented at the Abu Dhabi Convention.

The Award recognises an identifiable step forward in pipeline construction that reduces the impact on the environment.

Entries were received from the following companies:

- **A.Hak Drillcon, The Netherlands**
Reuse of drilling fluid
- **ALSA Engineering & Construction Co. L.L.C., U.A.E.**
Safe Water, Safe Life
- **Consolidated Contractors Group (CCC) SAL, Greece**
Clean and Green Campaign

- **China Petroleum Pipeline Bureau, China**
Dedication Energy Create Harmony
- **Gulf Petrochemical Services & Trdg. LLC, Oman**
Resource Management
- **Heerema Marine Contractors Nederland SE, The Netherlands**
Noise Mitigation during Pile Driving
- **MAX STREICHER GmbH & Co KG aA, Germany**
Optimisation of Production Processes to Reduce Environmental Impacts
- **McConnell Dowell and Consolidated Contractors Company Joint Venture, Australia**
The QCLNG Narrows Crossing Project
- **Nippon Steel & Sumikin Engineering, Co., Ltd., Singapore**
Motivational for One and All (Home-Office-Project Site)
- **SAIPEM S.p.A., Italy**
Soil and Ground Restoration Challenges in Ga.Me-C Pipeline Project
- **Techint Engineering and Construction, Peru**
Organic Pool Installment

Health, Safety & Environment Committee

Workshop on High Potential Incidents

Twenty-four people from 20 different companies gathered in Geneva on Tuesday, 2 July 2014 for a very productive session to discuss near misses in our industry as an opportunity to learn.

Near misses are opportunities to learn without the consequence of what might have happened. Yet many organizations struggle with how to either promote a culture of near miss reporting or how to make real changes from near miss lessons. The IPLOCA HSE Committee's goal with a one day workshop was to engage HSE managers and executives of the IPLOCA membership in this discussion.



Dianne Stober

After a short introduction on IPLOCA initiatives from Juan Arzuaga, IPLOCA Executive Secretary, Dianne Stober, Managing Partner of Cognitive Change Concepts, Inc. and a licensed psychologist, addressed the topic 'Learning from High Potential Incidents: a cognitive-behavioral approach.'

Dianne has 20 years' experience applying psychological concepts to improving individuals' lives and organizational performance.

Attendees had the opportunity to consider safety challenges from a cognitive-behavioral perspective to understand how our mindsets regarding near misses will influence actions we take, both as leaders and as individuals within our organizational safety cultures. Attendees also discussed how to influence their own and others' mindsets and take advantage of available leadership opportunities to use near miss reporting most effectively. Later in the morning four

small working groups discussed the benefits, success factors and roadblocks of high potential incident reporting. Lessons learned from and goals and actions to prevent future high potential incidents. Feedback from participants was extremely positive and many expressed their desire for further such workshops. They also expressed their great expectations from IPLOCA in leading its members to best practices.

Our thanks to all those who contributed in so many different ways to the success of this important workshop. Workshop presentations are all made available at the IPLOCA website www.iploca.com/hseworkshop

According to the participants...

"The agenda and the organization of the workshop were very good. It is a pity that most of the member companies did not get the benefits of such a great initiative."

"I discovered that among contractors we have very similar problems, understanding, solutions, and most important the same goal."

"IPLOCA should keep pushing this cultural aspect of safety."

"I heard a lot of examples and reflections in the morning thanks to Dianne Stober's presentation, plus different points of view during the workshop."

"I believe towards the clients we should focus on learning instead of lagging indicators."



One of the working groups



After a day of hard work, workshop participants enjoy a dinner

New Technologies Committee

Novel Construction Initiative

Fall Plenary Session

5-6 November 2014, Geneva, Switzerland

A forum for members and non-members to present their novel products and initiatives to improve pipeline design and construction. Invitations for speakers is open. We look forward to receiving your proposal. Please submit an outline of the proposed presentation to novel@iploca.com.

Save the date and mark your calendars for the next Novel Construction Initiative Meeting, to be held at the Crowne Plaza Hotel in Geneva on 5 and 6 November.

Register now on www.iploca.com/novelplenarysession

Spring Plenary Session

We thank the presenters of the Novel Construction Initiative Meeting in Geneva earlier this year for their support and for the summaries of some of the presentations that were made available to us and follow below. All presentations made at the last sessions are available on www.iploca.com

IWEX 3D

AUT Inspection Methodology

Jan van der Ent & Niels Portzgen

New ultrasonic array technologies for direct imaging of subsurface defects (2D & 3D visualization of welding defects) makes use of advanced algorithms that reconstruct the image of the defect from signals received from combinations of source and receiver elements or Full Matrix Capture (FMC). Examples of these techniques are IWEX, Total Focusing Method (TFM) and Sampling Phased Array (SPA).

Traditionally, standard Automated Ultrasonic Testing (AUT) of pipeline girth welds is based on narrow directional beams that require an assumption of the defects' orientation and position in order to receive a response. Ultrasonic imaging based on full matrix capture of the data does not rely on such assumptions and therefore detection of defects is not related to the orientation and position to a large extent. As shown

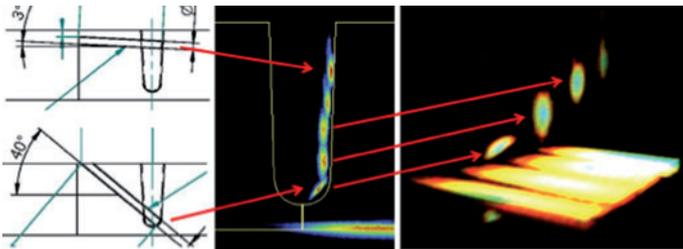


Figure 1: Example from a calibration block, showing an image (center) obtained from stacked 2D IWEX images that were scanned over a small circumferential area of the calibration block. On the right, a 3D presentation of this area is illustrated, showing the orientation, size and circumferential position of the reflectors.

in Figure 1, the orientation and position of reflectors from a standard AUT calibration block are imaged at the true location of the weld bevel configuration. The image demonstrates the complete inspection coverage of the weld volume. As a consequence, the probability of detection of defects based on ultrasonic imaging will be increased, offering a more reliable inspection of pipelines. Also, practical tolerances such as probe position relative to the weld center line are less influential, improving the consistency and reproducibility of results.

Although the Automated Ultrasonic Testing (AUT) systems, using pulse echo and Time of Flight Diffraction (ToFD) techniques, has been proven to be reliable approaches to find imperfections in welding in practice, quantitative defect characterization with these techniques remains challenging.

The most common approach to size welding defects with the pulse echo technique is based on a correlation of the amplitude from a defect to an amplitude from a known reflector, such as round bottom holes, notches etc. This correlation is often difficult in practice, as many other factors are influencing the amplitude response, and therefore can lead to large inaccuracies. The integrated ToFD technique has better sizing capabilities but has its limitations, for example, defects located close to the outer surface will be obscured by the lateral wave.

In phased arrays inspection, the image obtained from sectorial scans does often not represent directly the defect size and orientation, due to the use of directional beams. Therefore, data display and interpretation are not straightforward and require operator skill and experience.

Ultrasonic imaging techniques offer an improved perspective for defect identification and sizing, because

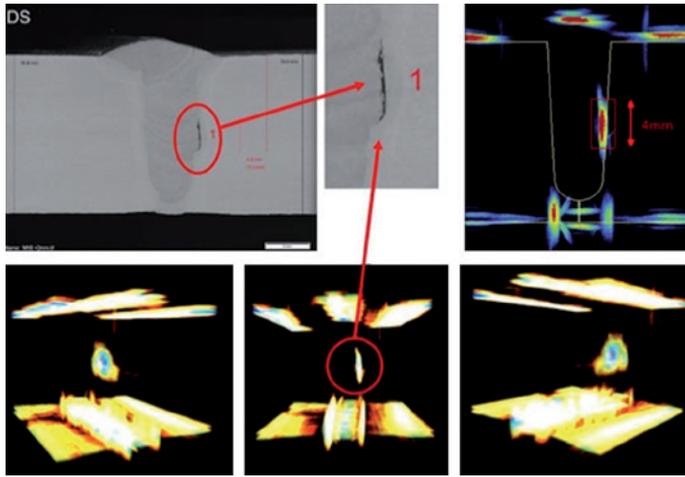


Figure 2: Example of an IWEX image (top right) showing a lack of fusion defect. The image can be compared directly with the macro section result shown at the top left/center. The size of the defect can also be obtained from the image directly. Below some 3D images are presented showing different perspectives of the defect and revealing the changing height of defect along its length..

the defect shape and size can be obtained directly from the image, without the need for a correlation step. Figure 2 presents an example of an IWEX image revealing a lack of fusion defect with its corresponding size. Depending on the image resolution, the accuracy of sizing can be improved significantly compared to traditional inspection methods. With an improved accuracy, the conservatism in acceptance criteria can be reduced, leading to less

unnecessary repairs during production. New ultrasonic imaging techniques such as IWEX can be used to image welding defects in 2D and 3D, giving absolute values for the position, orientation, length and height.

This will enable the NDT result to be interfaced more directly with fracture mechanics calculation, potentially allowing more accurate determination of acceptance or non-acceptance of the weld. Due to the advances in computer technology and software, ultrasonic imaging is close to field deployment an already field trials have been performed, refer to Figure 3.



Figure 3: Field deployment of an ultrasonic imaging system (IWEX), whereby real time images are produced during scanning

Pipeline Transportation of Viscous Crudes

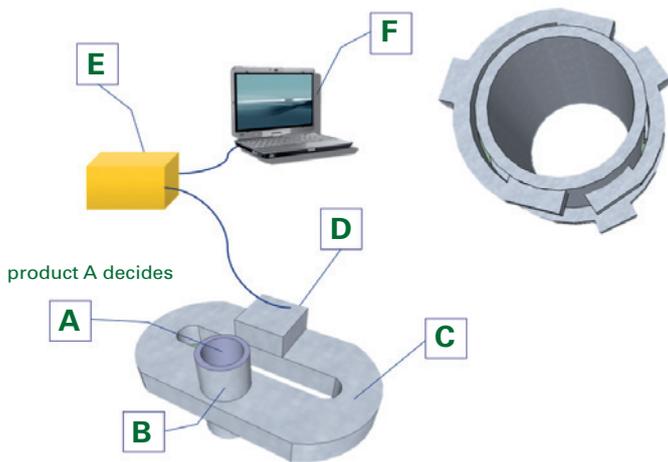
Laurent Selles

With the combination of an increase in world energy demand and the decline of conventional oils the heavy crude oils have been accepted as a valid substitute for the light oils, which now are on the way to be depleted soon. The heavy oils can be a substitute provided that one finds an economic and reliable way of reduction of the oil viscosity.

Giant reserves are available but even at the high barrel prices they are difficult to exploit economically. The heavy crudes are abundant on all the continents save Australia. The giant oil consumer China has significant reserves in the northeastern parts of the country but only minor quantities can be exploited. Venezuela has the biggest known oil reserves but practically all are heavy and very heavy crude. One of the ways to reduce the viscosity is the heating of the crude. So far has heating of pipelines been done in

various ways but all have been indirect heating, i.e. by use of conductivity. Even if heating is comparatively less expensive than the other methods, it is still fairly costly.

CHSD is a technology that can heat the crude by volumetric heating without heating directly the pipeline tube. Any such heating will be dependent of a number of factors starting with the structure of the oil, followed by the environmental and topographic conditions for the pipeline, availability of electricity (and water) and the special design of certain pipe section for the heating with appropriate by-pass. To give the reader an idea what the present various applied methods for the reduction of the viscosity in the crude in pipelines the cost can climb to more than 20 USD/bbl. A calculation of the cost by applying CHSD the result is oscillating between 0.25 and 1 USD/bbl. The pipe diameter can vary from 50 to 1000 mm allowing CHSD to be applied.



CHSD System: 13 variables to master every second & °C

CHS SA is a technology provider and needs adequate partners for the exploitation of the technology supplying the oil-knowhow and the needed engineering. For a first step installation to prove its advantages is estimated to need a 4 million EUR investment. The business potential is enormous and for the exploitation of CHSD there is need of big and competent human and financial resources. Do you belong to that category? A dielectric product is of a matter the can absorb energy, when exposed to an electro-magnetic field, and to transform the absorbed energy to heat energy. CHSD

is a highly efficient method for such heat creation and can be applied in all the sectors where the materials are dielectric. Pipeline heating is one such application with modest heat difference but enormous quantities. CHSD can in other cases act with temperature increases up to 2000°C. Presently several applications have been conceived and tested like: UHT-sterilization, (even liquids with solid particles), de-vulcanization of used tires, industrial bread baking and sterilization of powders and grains.

To this end, Creative Heating Services S.A. started a project with Delft University concerning the use of micro-waves for heating heavy crude oils to reduce their viscosity. They are particularly interested in fluidizing heavy crude oils having initial viscosities in the range of 0.1 to 100 Ps at room temperature. To this end a novel heating technology based on bi-directional magnetron waveguide is introduced.

CHS aims with its partners at a detailed planning and at the definition of the various properties in the selected sample for which API should be between 15 and 21 to start with.

When known, the engineering work can be started for the creation of a pilot plant to be installed and tried at the identified academic partner: Delft University, as soon as possible. The project will take 6 - 8 months to reach the point of testing.

Reproducible quality from joint to joint to joint...

Patrick Jansson and Norbert Jansen

Patrick Jansson of the new Associate member Uponor Infra Ltd and Norbert Jansen of Borealis AG presented their innovative WehoCoat™ field joint coating technology at the Novel Construction meeting in Geneva in March 2014.

Nowadays, the level of automation and control is very high when jointing two steel pipes via welding for onshore or offshore pipelines, which results in a predictable quality. However, when completing the external corrosion protection layers in the weld area, a predictable quality is often a challenge for field joint coating (FJC).

Onshore machine design

Borealis in cooperation with Uponor (former KWH Pipe Ltd) developed a new patented field joint coating technology for onshore pipes where only a fusion bonded epoxy (FBE) and then a "reactive top coat" made for either 3 layer PE or PP coated pipes is applied. The

reactive top coat material enables chemical bonding to the FBE, a polymer welding to the pipe coating and a mechanically strong protection of the joint, similar to the mill coating.

The machine (WehoCoat) is clamped around the pipe and is able to rotate all around, heating up the steel surface in a controlled manner by induction energy to about 180-200°C with the adjacent mill applied coating temperature controlled by hot air blowers. FBE is applied by an automatic powder gun for an even distribution of more than 100 micron on the steel. The machine frame contains a polymer melt cylinder that is charged with fresh molten polymer just before the FJC operation. The cylinder presses the melt onto the weld area through a flat heated extrusion die, which is broader than the field joint area.

A special broad driven roller presses the melt into the gap between the mill applied coatings, ensuring no air



Onshore WehoCoat™ machine applies PE field joint coat

entrapments and an even, smooth distribution of the coating. Surplus material is pressed out of the sides. This 2 layer application contains the minimum number of steps and materials for easy operation at and in the trench. In a Gasum project in Finland, a 508 mm (20") pipe was coated in 16-20 minutes moving from joint to joint, even at temperatures down to -30°C, while a 1000 mm pipe FJC takes about 30 minutes. The technology especially benefits longer distance projects with many joints to be applied of the same diameter and horizontal drilling installations due to the smooth transition from mill to field joint coating.

Offshore machine design

A short tact-time of 5-6 minutes synchronized with the welding and weld inspection step on a lay barge or a firing line on an onshore prefabrication yard is decisive

for offshore applications. Here the FJC is applied at two different stations, one with induction heating of the steel, FBE spray application and spray-covering the FBE with a 200 micron grafted adhesive powder resin, which melts on the hot FBE layer and bonds chemically. Then the pipe travels to the WehoCoat station where a rotating die is extruding hot polymer onto the joint area with overlap to the mill applied coating. The driven pressure roller and temperature controls are also used here for optimal application conditions.

Repeatable field joint quality confirmed

Third party inspections on the 1500 joints made in the Finland Gasum project and numerous quality checks by auditors for the onshore and offshore operator qualifications have confirmed a step change in maintaining repeatable quality from joint to joint.



Offshore WehoCoat™ machine set up



Offshore PP based field joint applied with WehoCoat™

2013 IPLOCA HSE Statistics reports

Inserts in this issue of your Newsletter

The IPLOCA HSE Committee has reviewed with great care the health & safety statistics and environmental statistics received from members.

The number of submissions for health & safety, although high in number, remain unequal in quality. Therefore, the HSE Committee has decided actions to improve quality of returns received to make aggregates more reliable. The response rate for the environmental statistics stabilised



at 70%. The HSE Committee will continue its actions to try and obtain a higher rate of return, in order to provide more valuable information to all members.

We encourage you to peruse the reports and to keep on sending your statistics!

Did you know...

After renewing its agreements with its Media Partners, IPLOCA can now offer to all its members the opportunity to publish an article in either North American Oil & Gas Pipelines, Offshore Magazine, Pipeline & Gas Journal, Trenchless Technology, World Pipelines or Underground Construction?

Perhaps you have a specific major project or development you would like to share information on? For more information or to submit an article idea, please contact our Business Administrator on ira.hajdamacha@iploca.com. Please note that IPLOCA cannot guarantee that all proposed articles will be published.

In Memoriam



Henri de Metz, well known to many IPLOCA members, and President of IPLOCA from 1991 to 1992, passed away on June 18th at the age of 82.

Henri was a member of the Society of the Cincinnati, as a descendent of the Admiral de Medine, who participated at the battle of Chesapeake in the American War of Independence. A large number of friends and colleagues of ETPM and ENTREPOSE attended his funerals in Paris. He is survived by his wife, Chantal, and his two daughters. We would like to extend our heartfelt sympathy to his family.

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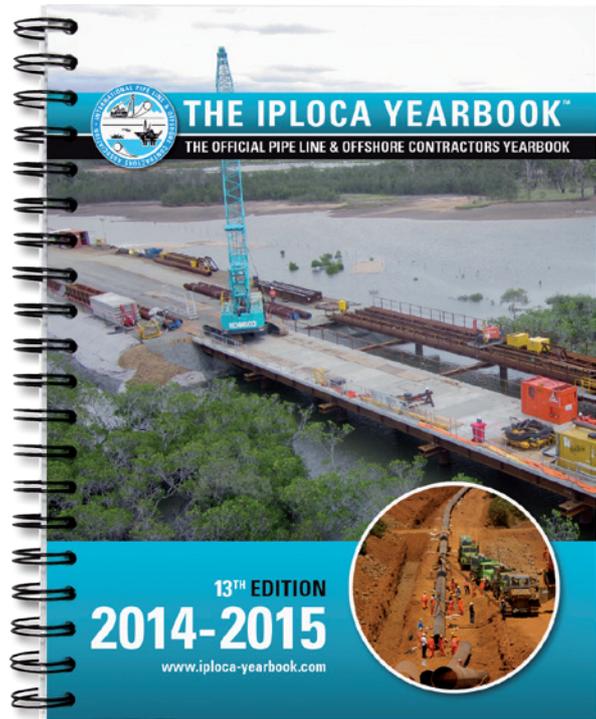
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Vice-President/Group Publisher

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IPLOCA Yearbook

New Edition 2014-2015



In November 5,000 copies of the Yearbook will be distributed globally to the desks and in the field offices of pipeline companies.

So you can be sure that information about your company is known where it helps you, namely with your clients and prospective clients. We hope this new edition will again meet your expectations but we always appreciate your comments and suggestions.

Please make sure to send us the addresses of the persons to whom you wish us to send this 13th edition of the IPLOCA Yearbook: listing@iploca-yearbook.com.

Mobile IPLOCA Yearbook

Pedemex, publishers of the IPLOCA Yearbook are ready to launch a cross-platform mobile version of the Yearbook after the Abu Dhabi Convention.

IPLOCA member information, member profiles, member contact data with direct links to company websites and contact phone numbers are just a few of the features. The mobile version will be available in November.

To see your advertisement in the Mobile IPLOCA Yearbook, please contact: advertising@iploca-yearbook.com.



IPLOCA 50th Anniversary

IPLOCA materials from the 1960s or 1970s?

If you have any old documents or photographs relevant to IPLOCA's earliest days that you would like to share with the Secretariat, please contact our Business Administrator, ira.hajdamacha@iploca.com, as soon as possible.

Upcoming Conferences

CityPipe 2014

Field Joint Coating Conference

2-4 September 2014 - Düsseldorf, Germany

www.amiplastics.com

Managing Globally-Dispersed Teams workshop

24 September 2014 - The Hague, The Netherlands

www.eci-online.org

2nd European Digital Oilfield Summit

24-25 September 2014 - London, UK

www.wplgroup.com

International Pipeline Exposition

30 September-2 October 2014 - Calgary, Canada

www.internationalpipelineexposition.com

Safety in Action 2014 Conference

6-9 October 2014 - Noordwijk, The Netherlands

www.cvent.com

48th IPLOCA Annual Convention

13-17 October 2014 - Abu Dhabi, UAE

www.iploca.com



APIA Convention

18-21 October 2014 - Melbourne, Australia

www.apia.net.au/events/2013-convention-adelaide

Fixing Pipeline Problems

21-24 October 2014 - Berlin, Germany

www.clarion.org

IPLOCA Novel Construction Initiative Fall Session

5-6 November 2014 - Geneva, Switzerland

www.iploca.com



ADIPEC

10-13 November 2014 - Abu Dhabi, UAE

www.adipec.com

IPLOCA Board of Directors

2013-2014



Left to right, front row: Doug Evans (Immediate Past President), Jean-Claude Van de Wiele (1st Vice President), Najib Khoury (President), Atul Punj (2nd Vice President), Harald Dresp (Treasurer), Juan Arzuaga (Executive Secretary). **Second row:** Larry Bolander, John Tikkanen, Jésus Garcia Pons, Ibrahim Zakhem, Greg Miller. **Third row:** Georges Hage, Adam Wynne Hughes, Gerry Grothe, Kaan Dogan, Jan Koop, Bruno Maerten. **Back row:** Marco Jannuzzi, Scott Summers, Michael Rae, Andrei Klepach (resigned), Wilhelm Maats. **Inset:** Roberto Castelli, Jim Frith, Yuri Komarov.

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