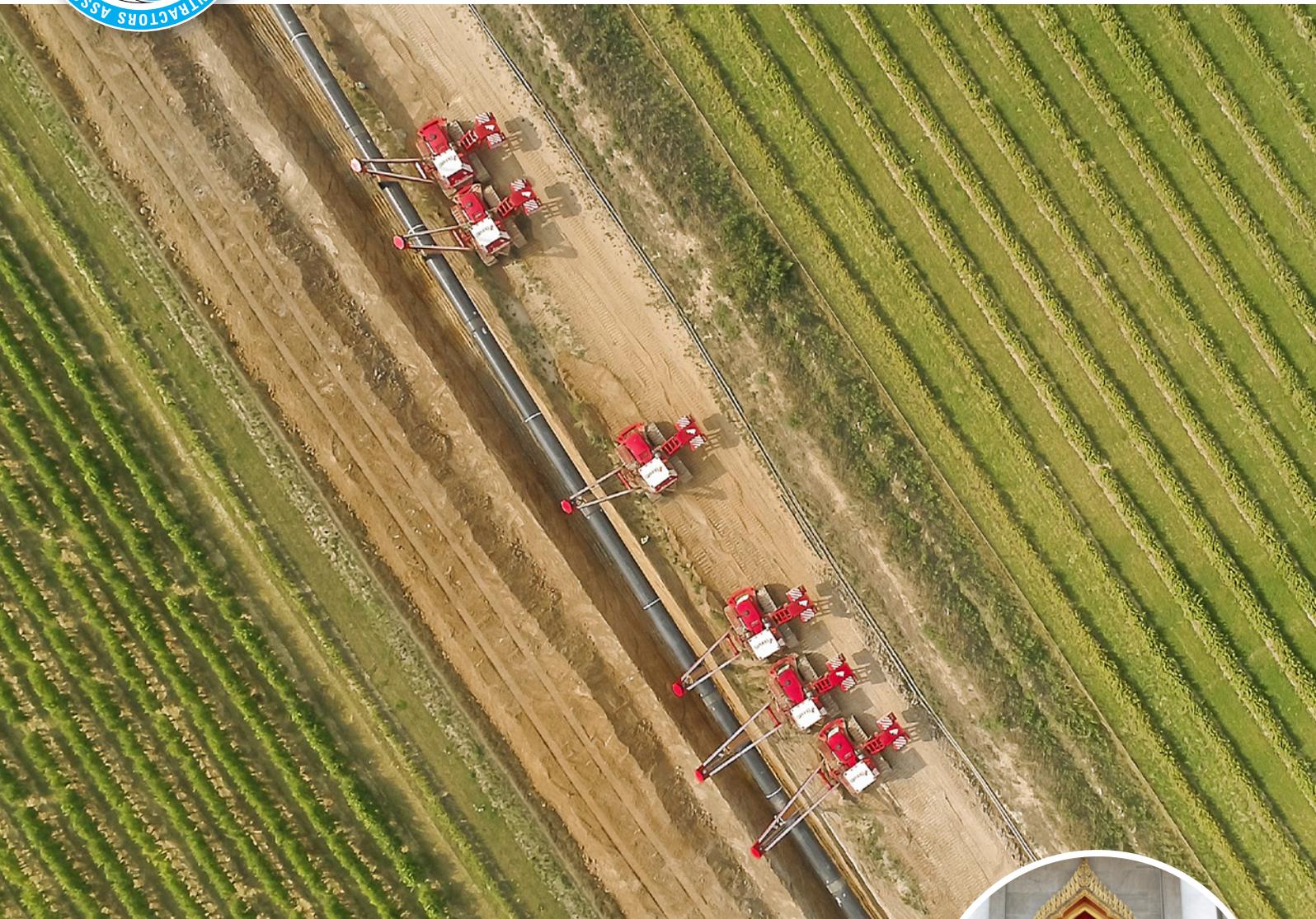




THE IPLOCA NEWSLETTER

DECEMBER 2019



Bangkok Convention Retrospective

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- 25,000 lb (11 340 kg)
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- 29,100 lb (13 200 kg)
- ▶ 7.46 psi

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- ▶ 6.87 psi

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IPLOCA Mission

To provide value to members through a forum for retaining and sharing knowledge globally, facilitating business opportunities and promoting the highest standards in safety, innovation, quality, business ethics and sustainability throughout the pipeline construction industry.

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Letter from the President

I am delighted to take on the role of IPLOCA President for this coming year and look forward to working with our new and existing board members, together with the Secretariat, to ensure we continue to enhance the value offered to our members, partners and affiliates alike.

I would like to thank John and Joanne Tikkanen for their leadership and support in 2018-2019. Following on from the year-long Strategic Review, our work will focus on improving communications not only between our members but also within the World Federation of Pipe Line Industry Associations (WFPIA); developing our relationship with IPLOCA's Corresponding Members (pipeline owners/operators); and continuing to hold Regional Meetings and Workshops in addition to the Annual Convention.

It is always good to see new faces on the Board, bringing with them fresh ideas and energy. I would like to warmly welcome all the incoming directors whose profiles you will find on pages 8 and 9 of this newsletter. It is also encouraging to have new or returning companies joining us at this exciting time in the evolution of our association.

This year over 80 first-time attendees participated in our 53rd Annual Convention, which took place in Bangkok, Thailand. As always, we particularly thank our convention sponsors for their generous support in making our annual convention such a unique event. In addition to our excellent guest speakers, the Business to Business (B2B) meetings as well as the informative Poster Sessions were greatly appreciated by our delegates. A retrospective on the convention can be found on pages 14 to 17, including a feature on the winners of this year's IPLOCA Awards.

In this newsletter, you will find updates on the work of the HSE & CSR Committee and the Innovation Committee, specifically the Environmental Workshop and the Novel Construction Fall Session that were held in Geneva from 22 to 24 October. You will also note that applications are already being received for the 2020 Scholarship Programme.

I expect a busy year ahead for the association. The Board does not work in isolation, however; and we always welcome participation from all our members in IPLOCA's projects and committees. Please feel free to contact a director or juan.arzuaga@iploca.com if you have any suggestions or wish to provide feedback.

Best regards,

Iosif Panchak

IPLOCA President 2019-2020

News from Geneva

IPLOCA on Social Media

IPLOCA is now visible on Instagram, LinkedIn and Twitter! There are regular posts on all three accounts and daily during events such as the Annual Convention, Novel sessions, HSE workshops and Regional Meetings. We encourage you to follow our events and tag us. In addition, if you would like IPLOCA to share content that you post, you can contact dilanh.nguyen@iploca.com who will gladly share, retweet, repost your news or articles.

2020 IPLOCA Scholarship Programme

As a reminder, the submission deadline for applications is 28 February 2020. Spread the word within your companies – we encourage you to make use of the electronic versions of the flyers in seven different languages which are available on our website. You will also find information on the eligibility requirements on the same page: www.iploca.com/scholarship.

Applications should be made in English online at www.learnmore.scholarsapply.org/iploca. Please note that all the supporting documentation needs to also be provided in English.

Did you know: you or your company can sponsor a Scholarship?

In 2019, in addition to IPLOCA's 20 scholarships, three company-funded scholarships were awarded, sponsored by Gulf Interstate Engineering, Rosen Group and Vacuworx. Should you or your company be interested in sponsoring future scholarships contact jacqueline.tempel@iploca.com.



IPLOCA at ADIPEC

For the first time IPLOCA had reserved a booth at the Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC), held from 11 to 14 November. The event attracted over 2,200 exhibiting companies and over 145,000 trade visitors. Taking place in parallel was the ADIPEC Offshore & Marine Exhibition and Conference with over 250 exhibiting companies and over 20,000 attendees.

Season's Greetings

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 this past year. We are grateful for your expertise, the time you have shared with us, for hosting our events and sponsoring activities, but above all we appreciate your friendships! In 2020 we look forward to putting into place and implementing the new strategic plan together. **Our very best wishes for a healthy, safe and enterprising new year!**

Board Meeting Update

Bangkok, 29 September – 4 October

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

Minutes of the Moscow Board Meeting

The minutes of the Moscow board meeting were reviewed and accepted with some comments or outstanding actions carried forward: Since no Russian member had signed up to attend the Novel Fall Session, the need for a translator

was void. The Secretariat will discuss with the incoming President, Iosif Panchak if it would be a good idea to send an invitation in Russian to our Russian members to encourage participation. The Treasurer and Executive Secretary will research low risk investment options for CHF 500,000 of the IPLOCA Contingency Fund so as to continue funding scholarships with the interest earned.

Treasurer's Report

Adam Wynne Hughes presented the accounts for the first half of 2019 and commented on the budget for the whole year. He confirmed that the first half of the financial year is positive and that the Convention Manager, Caroline Green, had once again managed to obtain sponsors for

the majority of items for this year's annual convention. He noted, however, that there has been a drop in available funds when converted to Swiss Francs. He said an increase in membership fees for 2021 would be announced during the AGM on Friday 4 October. It was noted that membership fees have not changed since 2008.

New Members

The following applications were approved by email so that the new members could attend the annual convention:

- **Asia Pipelines Co. Ltd.**, Thailand (Regular Member)
- **Chetra LLC**, Russian Federation (Associate Member)
- **Elecnor S.A.**, Spain (Regular Member)
- **Kalyon Construction Company**, Turkey (Regular Member)
- **ORAT Srl**, Italy (Associate Member)
- **Pipeline Technique Ltd.**, U.K. (Regular Member)
- **Transpetro/Petrobras**, Brazil (Corresponding Member)
- **Techfem**, Italy (Regular Member)
- **Worley**, Australia (Associate Member)

Name Changes

The following companies have changed their name:

- BSD Consulting is now **Blue Sky Evolution**
- Masa Pipelines is now **Internacional de Pipelines DAIP**

Resignations and Terminations

- **Amur Machinery**, Russia (Associate Member)
- **Kazstroyservice OGCC JSC**, Kazakhstan (Regular Member)
- **Mantrac Unatrac**, Egypt (Associate Member), effective as of 2020
- **MMEC Mannesmann**, Germany (Regular Member), effective as of 2020
- **Transneft Diascan**, Russia (Associate Member)

Presentation of IPLOCA Strategic Review

The Executive Secretary presented the planned agenda for the AGM. This year, John Tikkanen and the strategy consultant, Ed Bond would jointly present the year-long Strategic Review in the form of an information session. John Tikkanen thanked the group for all the time and effort spent on this review. The findings were presented and the plan was to endorse the next steps in order for the incoming President, Iosif Panchak to have a clear road map for his term. John Tikkanen thanked Andy Ball for starting this project, Doug Evans for his leadership, Ed Bond for having captured who we are and Juan Arzuaga for being open minded considering that this plan is generating more work for the Secretariat.

IPLOCA on Social Media

The newly joined IPLOCA Events and Communication Assistant, Di Lanh Nguyen, introduced himself and informed the group that his role is to encourage

communication with members via social media, increase the association's visibility and allow members to connect with IPLOCA through their membership.

Since joining he has created accounts with Instagram and Twitter to add to the existing one on LinkedIn, created a year ago. Di Lanh will be posting regularly on all three of these accounts and daily during events such as the Annual Convention, Novel sessions, HSE workshops and Regional Meetings. IPLOCA would like to encourage members to follow the association's events via these social media accounts and to tag us. This will add value to membership and in turn attract new members.

Convening of the 2019-2020 Board of Directors

On Friday during the week of the Annual Convention the retiring president, John Tikkanen stated that it had been an interesting year and thanked the board for all their hard work, their input and contribution in completing the IPLOCA Strategic Review. An Implementation Plan has been proposed for Iosif Panchak, as 2019-2020 President, for discussion with the board in order to define priorities and put in place a roadmap. He then thanked the board members who had finished their term and the retiring directors left the room. The 2019-2020 Board convened.

The retiring President John Tikkanen tabled the 2019-2020 officers' names and the board voted unanimously to appoint Iosif Panchak as President, Oliviero Corvi as 1st Vice President, Leon Richards as 2nd Vice President and Adam Wynne Hughes as Treasurer.



Incoming President, Iosif Panchak presented John Tikkanen with his presidential pin

Elected Directors

Europe Eastern: Iosif Panchak (J.S. Welding Company), Yasar Giregiz (Fernas Construction Company)

Middle East & Africa: Najib Khoury (C.C.C.), Adel Botros (Al-Qahtani Pipe Coating)

America North: Kelly Osborn (U.S. Pipeline), Tim Zboya (Bechtel Pipeline)
Latin America: Ebbo Laenge (Conduto)
Europe Northwest: Adam Wynne Hughes (PIH), Johan Van Wassenhove (DENYS)
Europe Mediterranean: Oliviero Corvi (Bonatti), Bruno Pomaré (Spiecapag)
East & Far East: Leon Richards (McConnell Dowell), Abdullah-Al-Mahmud (PEAL)
Associate Members: Daniel Fernandez (Worldwide Group), Sue Sljivic (RSK Group), Doug Bailey (Caterpillar)

Appointment of Directors and Directors-at-Large

There being vacant seats in two regions, Iosif Panchak proposed the appointment of Gerben Wansink (Maats Pipeline Professionals) and Wilko Koop (A.Hak) as directors for Europe Central and Gonzalo Montenegro (SEPCON) as the second director for Latin America. These appointments were accepted by majority vote of the other directors.

The names of the proposed Directors-at-Large were tabled by Iosif Panchak. The board then voted and approved to appoint Paul Andrews (Fluor), Andrew Ball (J. Murphy & Sons), Fatih Can (Tekfen Construction), Roger Spee (CRC Evans)

and Albert Zakhem (Zakhem International) as Directors-at-Large. It was noted that Abdullah-Al-Mahmud, Paul Andrews, Wilko Koop, Ebbo Laenge and Gerben Wansink were unable to attend the meeting.

Committees

The 2019/2020 Board will run four committees and two projects as follows:

HSE & CSR Committee

Chair: Bruno Pomaré

Innovation Committee

Chair: Paul Andrews

Strategy Committee

Chair: John Tikkanen

Membership & WFPIA Engagement Committee

Chair: Andrew Ball

Convention & Board Location Project

Project Lead: Roger Spee

Scholarship Project

Project Lead: Kelly Osborn

Next Board Meeting

The next board meeting will be held from 3 to 6 December in Lima, Peru.

World Federation of Pipe Line Industry Associations



Members of the WFPIA (World Federation of Pipe Line Industry Associations) met during IPLOCA's Annual Convention in Bangkok.

Following on from the last meeting held in Ottawa, Canada, Juan Arzuaga encouraged Sister Associations to invite their members to share their HSE experiences and participate in embellishing the IPLOCA Shared Experiences Platform. It was noted that sometimes confidentiality of reports can hinder such cooperation.

Reciprocity in registration at Sister Association conventions was highlighted and will be further discussed individually. John Tikkanen mentioned the IPLOCA consultant's suggestion of partnering with Sister Associations to strengthen the WFPIA so that it becomes a voice for the industry and also evaluating organising HSE joint events.

Other topics touched on were the possibility of inviting INGAA Foundation to join the WFPIA; the shortage of management and experts in the industry; and, further exploration of other types of product pipelines such as CO₂, N₂, slurry, water, etc.



WFPIA attendees: Juan Arzuaga (Switzerland) IPLOCA Executive Secretary, Robert Darden (U.S.A.) DCA Executive Vice President, Mike Hickey (U.S.A.) DCA President, Wayne Hodgins (Canada) PLCAC Executive Director, Adam Wynne Hughes (U.K.) PIG Chairman, Dave Maloney (Australia) APGA President, Kelly Osborn (U.S.A.) PLCA Incoming President, Iosif Panchak (Russian Federation) IPLOCA 1st Vice President, John Tikkanen (U.S.A.) IPLOCA President, Elizabeth Worrell (U.S.A.) PLCA Managing Director and Chief Counsel.



New Directors on the 2019-2020 IPLOCA Board

We warmly welcome the following directors, as a result of the 2019-2020 elections and nominations.



Abdullah-Al-Mahmud (Mintu) Director for East & Far East

Abdullah-Al-Mahmud (Mintu) of Bangladesh is Chairman of The Pipeline Engineers and Associates Limited (PEAL), which he established in 1983. After graduating in Civil Engineering in 1978, Mr. Mintu had served for a

few years with government-owned gas utility companies in Bangladesh. PEAL has since greatly evolved in the development and construction of natural gas, oil, power and other energy infrastructures in Bangladesh. He expanded his business into the pulp and paper sector, establishing the Capital Paper and Pulp Industries and Capital Board Mills Limited in 1996 and was elected Vice President of the Bangladesh Paper Mills Association in 1998. The Bangladesh Government subsequently appointed him as the Honorary Trade Counselor to New Zealand and from 2004 to 2010 he made relentless efforts to strengthen trade relations between the two countries. Mr. Mintu is strongly committed to social and community development activities through his established charities and corporate social responsibilities.

in the North Sea, to some of the highest pressure and temperature pipelines being built today. He has managed offshore, cross-country pipelines, marine facilities and even nuclear plant intakes. Over his career as a lifelong pipeliner, Paul has held positions from departmental and executive management through sales construction and operations. It is however the technical challenges of pipelines that are of greatest interest; and he was one of the initiators of the IPLOCA Novel Construction Initiative. A family man with a loving wife, Caroline, and four grown children, he now lives in Hampshire U.K. and teaches beekeeping in his spare time, sails (when he can), paints and turns wood.



Adel Botros, Director for Middle East & Africa

A U.S.A. national, Adel is Director, Research & Development/ Technical Services at Al-Qahtani Pipe Coating Industries in Saudi Arabia. Previously he was Group Leader, Research and Development with Herbert

O'Brien (now known as AXALTA), in Houston, U.S.A. He developed the Fusion Bond Epoxy product for internal and external use to protect pipelines from corrosion and his products are still used today. His early career was spent in teaching posts as a chemistry professor and as a research & development chemist. He holds a BSc in chemistry and is affiliated to the National Association of Corrosion Engineers (NACE), the Society for Protective Coatings (SSPC) and is a committee member of the International Organisation of Standardisation (ISO).



Paul Andrews, Director- at-Large and Innovation Committee Chair

Paul is Senior Fellow at Fluor Limited, U.K. and was previously the first Pipeline Technical Fellow at Bechtel. A mechanical engineer, Paul has worked on many "first of their kind" projects around

the world, from the first deepwater offshore pipelines

Wilko Koop, Appointed Director for Central Europe

Wilko, a Dutch national, is an automotive engineer as well as an engineer in business administration. He is currently Director at A. Hak International B.V., and has been working in the industry for 26 years. He mainly focuses on laying underground infrastructure of high-pressure pipelines and



high-voltage cables. Wilko has built up an extensive international network, having been employed by leading international contracting companies, in addition to A.Hak, such as Visser & Smit and Nacap. He has worked from the Netherlands on innovative and ground-breaking projects around the world, including landfalls,

trenchless crossings, development of special machines and automated welding systems. Wilko has been happily married to Trineke for over 26 years and is the father of three children. When not at work, Wilko likes to do gardening, as well as hiking and cycling.



Ebbo Laenge, Director for Latin America

We welcome back Ebbo Laenge, who previously served as IPLOCA board director from 2009 to 2011 and from 2014 to 2016. Ebbo works for the Conduto Group which has projects in South America: Brazil, Peru, Chile, Ecuador, Bolivia and

the Dominican Republic. He teamed up with Conduto in 1988, after an employment with Preussag out of Germany, and worked his way up in the company from Project Engineer to Project Manager, Country Manager and now C.E.O. Conduto is a diversified company, working for the oil and gas industry, mining companies and for power generation and transmission as well as for water and telecommunication companies. The company also has an HDD division which works on shore approaches and bored river crossings. Ebbo has four children and lives between Brazil and Ecuador. He loves outdoor sports, such as paragliding, diving, biking and trekking.



Bruno Pomaré, Director for Europe Mediterranean and HSE & CSR Committee Chair

Bruno was nominated Business Development Director at Spiecapag in March this year and has been with the company for 27 years. After graduating with a MSc in civil engineering, he held several

project management positions from 1992 to 2006 in Nigeria, Australia, Italy, Reunion Island and Yemen. He has led the technical department over the last 12 years, supervising the tender department as well as managing the equipment

& purchasing aspects of the company. Along with Paul Andrews, Bruno is one of the few members of IPLOCA's Novel Construction Initiative who has been supporting it since its inception in June 2004. He is also a board member of the Pipeline Technology Conference. A French national (with Italian roots), Bruno lives in Paris and is married to Florence. They both enjoy travelling.



Roger Spee, Director-at-Large and Convention & Board Location Project Lead

Roger is currently VP Global Business Development for STANLEY Oil & Gas, a division of Stanley Black & Decker that encompasses CRC-Evans, Pipeline Induction Heat (PIH) and STANLEY

Inspection. He started his career at Pepsico where he worked for 10 years. He then joined Stanley Black & Decker (SBD) and moved to CRC-Evans when SBD later purchased the company and has worked there for over 10 years in various roles. Roger was born and raised in Tulsa, Oklahoma U.S.A. where his parents had moved to from the Netherlands, and yes, he does speak Dutch! He currently lives in Houston, Texas, with his wife Holly and their three daughters where they enjoy spending time as a family and travelling.



Gerben Allard Wansink, Appointed Director for Europe Central

Gerben is the C.E.O. and owner of Maats Pipeline Professionals. He started his pipeline career with Hausstadt & Timermann in 1999 as project manager global HDD crossings and continued at

Herrenknecht A.G. for three years from 2003, assisting with the development of HDD equipment and training. After a year with LMR Drilling he decided to move out of HDD and eventually started working at Maats Pipeline Equipment. He held several positions within the Maats group, resulting in becoming C.E.O. over 6 years ago. The then owners, Wilhelm and Marja Maats voiced their confidence in him guiding their company into the future by selling 100% of their shares to him in 2017. Gerben is married to Gerdien Wansink-Stegeman and they have two children. Gerben hopes that the contractors and suppliers of Central Europe will not hesitate to contact him with questions or comments so that these can be addressed directly, to be as effective as possible for the whole association.

Membership Centre

IPLOCA Membership Fees

Membership fee invoices for 2020 were emailed at the end of November and the payment due date is the first business day of 2020 (i.e. 2 January). Please note that paper copies of invoices will only be mailed upon request. Membership certificates will be sent out in January.

During the AGM held in Bangkok on 4 October, IPLOCA Treasurer, Adam Wynne Hughes informed members that membership fees will be increased for the first time since 2008. This increase will apply to the 2021 membership fees. If you have any questions please contact IPLOCA's Accounting Manager, sebastien.goetschmann@iploca.com.

New Regular Members



Asia Pipelines was established in 2016, registered in Thailand

and focuses on the delivery of high-quality pipeline engineering to clients in Asia and beyond. Specialising in onshore pipeline engineering at every stage of the project life cycle, the company's services comprise feasibility studies, conceptual, FEED and detailed design of onshore oil, gas and water pipelines, including owner's engineer, project and construction management services. With partnerships in place the company can include offshore scope where called for, enabling the full project engineering to be offered via a single source. Asia Pipelines's team comprises experienced specialist pipeline engineers, along with highly competent project engineers, managers and an effective corporate support team.

Asia Pipelines Co., Ltd.

4th Floor, GOT 1 Building
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Chatuchak, Bangkok 10900
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T +66 2150 66148
contact@asia-pipelines.com www.asia-pipelines.com



In the field of infrastructure, **Elecnor** undertakes viability studies, general & detailed engineering projects, construction, supply provision, installation & assembly, commissioning, and operation & maintenance services. Elecnor Group promotes, develops and constructs within all types of infrastructure, renewable energy and technology

sectors, providing integrated services (engineering, procurement, construction & OM) for oil & gas and water projects: oil & gas pipelines, compressor and pumping stations, metering and regulation stations, regasification plants; water pipelines up to 72", pumping stations, reservoirs; telecommunications, communications and security systems.

Elecnor, S.A.

Paseo de la Castellana, 81 - Planta 20
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elecnor@elecnor.com www.elecnor.com

Pipeline Division Headquarters

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Kalyon is a Turkey-based conglomerate predominantly operating in diversified fields of construction and energy

industries. Since its foundation in 1974, Kalyon has successfully delivered numerous mega projects in sectors including infrastructure, oil & gas, highways & motorways, metros & railways, airports, general buildings, water & waste water and industrial facilities. Kalyon is proud to have taken a significant part in both onshore and offshore sections of the TANAP natural gas pipeline stretching from the Turkish-Georgian border to the Turkish-Greek border to supply natural gas to both Turkey and European countries. Due to continued and sustainable growth, Kalyon is now an investor in energy, oil & gas and a key player taking stake in schemes such as BOT, PPP etc. including but not limited to toll roads and the new Istanbul airport soon to become the largest in the world.

KALYON INSAAT SANAYI VE TICARET A.S.

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kalyon@kalyongrup.com www.kalyongrup.com



Pipeline Technique, founded in 1998, recently transferred ownership and is now operating

as an independent world leading provider of welding and field joint coating solutions to the oil and gas industry. Pipeline Technique has built up an impressive track record in the field of spoolbase and double/quad joint fabrication,

and provides solutions for shallow to (ultra-) deep water pipelines, landlines, subsea production systems and drilling products. The company also specialises in value added products such as counterboring, pipe sorting and matching, research, and the development of processes and materials. Pipeline Technique is certified according to ISO 9001, ISO 14001 and ISO 45001.

Pipeline Technique Ltd.

Deveronside Works, Steven Road
Huntly, Aberdeenshire
Scotland, AB54 4PS
U.K.
T +44 1466 79 5888
info@pipeline-technique.com www.pipeline-technique.com

New Associate Members

Welcome back to CHETRA LLC.

CHETRA CHETRA, established in 1971, is the biggest Russian manufacturer of pipe layers and crawler bulldozers. Currently they have more than 3000 machines in operation in Russia and in 30 countries worldwide. CHETRA produces a wide range of pipe layers with lifting capacity from 26.5 tons up to 107 tons for handling operations in civil and oil & gas construction. Their pipe layers are reliable machines with a long service life and low maintenance costs. A minimum number of controls and up-to-date automatic systems of load control ensure the highest level of safety.

CHETRA LLC

1, Pr. Mira
Cheboksary
Chuvash Republic-Chuvashia, 428022
Russian Federation
T +7 8352 388 488
chetra@tplants.com www.chetra.ru



MatService Petr6leo, was founded in April 2010 and specialises in the supply of surface preparation and inspection equipment, coatings, pipes, valves and various parts needed for the construction and maintenance of plants and pipelines. Currently, MatService Petr6leo is present in Bolivia, Peru, Ecuador and Colombia. In the last nine years, the company has contributed to the construction of 80% of pipelines built in these four countries. It is managed

by Mr. Jose Oscar Paniagua (General Director) and Mr. Jose Marcelo Paniagua (General Manager).

MatService Petroleo S.R.L.

Av. Banzer Km 8 1/2 Calle S/N EdifMatservice Petroleo
Piso 1 Nro S/NUrb Jardines des remanso Uv 338 Mz 015
Bolivia
T +59 1334 840 41
info@matservice.com.bo matservice.com.bo



Founded in 1970, **O.R.A.T.** represents a point of reference in non-destructive testing with the capacity and availability of almost 100 technicians and large amounts of equipment: radiation tubes, gamma sources ultrasonic devices (UT-SAUT-AUT) with phased-array technologies, yokes for magnetic tests, penetrating liquid, and heat treatments test of the hardness and thickness. Countries where O.R.A.T. has undertaken controls in recent years include: Ireland, Shetland Islands, Kazakhstan, Mexico, Perù, Tunisia, Turkey, Greece. All the company's technicians are accredited with level 2-3 according to ISO 9712 methods. ORAT is certificated according to UNI EN ISO/IEC 17020.

O.R.A.T. Srl

Via Roma 88
29010 Villanova Sull'Arda
Italy
T +39 0523 837 231
info@orat.it www.orat.it



Founded in 1984, **Techfem** is an independent technology-driven engineering contractor and field service provider for the oil & gas industry. It specialises in high-complexity pipeline systems, both onshore and offshore, and covers the full project cycle from feasibility to precommissioning. Additionally, Techfem provides EPC contractors with HSE in-design services of any kind of oil & gas plant. Headquartered in Fano, Techfem operates out of four offices in Italy and has several foreign branches. It employs more than 200 engineers and technicians and is a designer of choice for gas transmission systems at a regional level.

Techfem S.p.A.

Via Toniolo, 1/D
61032 Fano
Italy
T +39 0721 804314 F +39 0721 802433
servtec@techfem.it tenders@techfem.it www.techfem.it

Worley is happy to be back as an Associate Member:



After welcoming the Jacobs Energy, Chemicals & Resources into its business in April 2019, **Worley** now has nearly 60,000 people across more than 50 countries and can support its customers in all regions of the world. From large-diameter, long-distance transmission pipeline systems to small-inch gathering and distribution systems, Worley has designed and managed the construction of over 100,000 kms of pipeline, pipeline-related facilities, and terminals globally. Worley has the expertise and capability to work with its customers to develop large and small projects, undertake all phases and levels of studies, provide expert input to solve problems, and support existing assets with pipeline integrity services.

Worley

Level 25, 12 Creek St
Brisbane Queensland 4000
Australia
T +617 3239 7400 F +617 3221 7791
www.worley.com

New Corresponding Member



Petrobras Transporte S.A.
– **Transpetro** specialises in transportation and fuel

logistics in Brazil. The company also operates in the import and export operations of oil and derivatives, gas and ethanol. As a wholly-owned subsidiary of Petrobras, the company has merged the production, refining and distribution areas of the Petrobras system, and also provides services to various distributors and the petrochemical industry. Thus, Petrobras Transporte S.A. has national operations, with facilities in twenty of the twenty seven federative units of Brazil.

Petrobras

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Centro
20091-060 Rio De Janeiro
Brazil
T+55 21 99251 6114
www.petrobras.com



A Strategy Fit for the Future

In September 2018, the Board launched a one-year project with the support of an external advisor to help IPLOCA develop a strategic plan so as to adapt its activities to a changing world. Since then, an entire review of activities has been undertaken and strategic discussions took place.

The **IPLOCA mission statement** was slightly adjusted:

To provide value to members through a forum for retaining and sharing knowledge globally, facilitating business opportunities and promoting the highest standards in safety, innovation, quality, business ethics and sustainability throughout the pipeline construction industry.

In addition a **vision statement** was created:

IPLOCA envisions a future in which it is viewed by members as a value to their business and by stake-holders as an authoritative commentator on issues related to the pipeline industry.

Resulting **Strategic Imperatives** were developed:

- Maintain the unique character of the IPLOCA convention as a gathering place for leaders in business related to pipeline construction.

- Build a world class capability to understand and manage multiple points of contact within membership organisations.
- Educate members and event attendees regarding how to gain most from affiliation with IPLOCA.
- Organise, represent and serve members in a manner that maximises value.
- Build and utilise relationships with other industry-related organisations to access information and be a more effective voice related to pipeline construction.

During the 2019 AGM, IPLOCA President, John Tikkanen stated, "It is generally agreed that in the coming years, pipeliners will still be needed. However, as protecting the environment becomes increasingly important and governments worldwide are challenging how pipeline constructors work, it is important to acknowledge safety and environment in order to ensure sustainability. Corresponding Members state that they want to work with contractors who make safety and the environment a priority."

He added: "Going forward, the association will be a more effective voice related to pipeline construction by promoting sustainability, facilitating the access and sharing of industry knowledge, and coordinating and communicating with other industry organisations to become a credible advocate for best pipeline construction practices."

HSE & CSR Committee

The HSE & CSR Committee met at the Mövenpick Hotel in Geneva, to coincide with the HSE Workshop and the Novel Construction Fall Session.

At this meeting, Sue Sljivic (RSK) introduced Bruno Pomaré of Spiecapag as the new Committee Chair (see page 9 for Bruno's profile as a new board director) and confirmed that she will continue as the co-chair.

Health, Safety and Environment Shared Experiences Platform

The Committee is grateful to all members who contribute to the HSE Shared Experiences Platform. Over 300 documents have been uploaded since its launch in June 2016. All documents are grouped according to specific categories and under "Lessons Learned" or "Safety Alerts." Remember this is a collaborative tool, therefore your contributions are essential! By sharing your experiences you are helping others to prevent accidents. So, share and learn by taking a look at www.iploca.com/hseplatform. If you have any questions, please contact sebastien.goetschmann@iploca.com

Environmental Workshop



Attended by 46 participants, this year's HSE Workshop focused for the first time on enhancing the environment and sustainability in pipeline construction and was held in Geneva on 22 October, just before the Novel Construction Fall Session.

The agenda started with presentations by Consolidated Contractors Group S.A.L. (C.C.C.), the winner of the 2018 IPLOCA Environmental Award sponsored by Shell and



Ledcor Pipeline Limited, the winner of the 2019 IPLOCA Corporate Social Responsibility Award sponsored by Total. Then, Committee Chair, Sue Sljivic introduced the latest trends in the social and environmental aspects of pipeline construction. There were also presentations on environmental management and a cultural heritage experience, and the environmental & social governance of funds for pipeline construction projects. The morning ended with three presentations of particular experiences related to a livelihood restoration plan; the audit & findings of workers accommodation and working conditions on a project in Qatar; and, finally, carbon reporting.

During the afternoon, in smaller groups, attendees had the opportunity to debate the measurement and management of greenhouse gas in the oil & gas supply chain. Copies of all the workshop presentations are available at www.iploca.com/hseworkshop.

ISO Occupational Health & Safety Reminder

Note: Companies certified under OHSAS 18001:2007 must go to ISO 45001:2018 by March 2021.

ISO 45001 was published in March 2018 and will replace OHSAS 18001. This new standard is the first occupational health and safety standard that is recognised globally and is designed to help organisations of all sizes and industries to reduce workplace injuries and illnesses around the world.

It will allow smoother integration with other ISO standards such as ISO 9001 (quality management) and ISO 14001 (environmental management). Organisations already certified to OHSAS 18001 have three years to comply with the new ISO 45001 standard. For more information, please visit: www.iso.org/news/ref2272.html

Bangkok Convention Retrospective

The week's programme included two days of Open General Meetings - see pages 16 to 19 - as well as numerous social functions and cultural tours.

The cultural programme offered delegates the opportunity to visit some of Bangkok's major attractions such as the UNESCO World Heritage Site of Ayutthaya, the Grand Palace and the Temple of Dawn. Many of the tours were accessible by boat, giving participants the time to enjoy the scenery along the Chao Phraya River.

Despite it being the end of the monsoon season, delegates were lucky to enjoy the Caterpillar evening at Sampran Riverside without any rain. Guests were greeted by drums and dancers along with two elephants sporting Caterpillar and PLM logos.

Entertainment also included local arts and crafts workshops, Thai boxing and sword fights. The evening ended with each guest placing a floating candle on the lake, followed by the traditional fireworks display.



Post-convention Questionnaire

We are grateful to the delegates who took the time to complete and submit the post-convention questionnaire.

The information received is important to help us further improve future conventions, and gives participants the opportunity to express their opinion and convey their suggestions on any part of the programme. We encourage more attendees to provide us with their feedback after future events. Overall, the convention programme was greatly appreciated, with the business parts being rated slightly higher compared to last year's

convention in London. 88% of respondents said they were able to network as expected, and 97% said they would recommend the convention to other colleagues.

Respondents once again confirmed their interest in having presentations on a local topic, and on the work of IPLOCA's committees. All respondents said they are likely to attend next year's convention in Prague.

Around 92% of respondents used the app this time which represents a slight increase of 2% compared to last year. The comments received regarding the app were very positive, with a few suggestions to help us improve it in the future.



Maats/Liebherr Golf Tournament

This year's golf tournament was held at one of Thailand's most prestigious courses, the Thai Country Club.

It proved to be well worth the lengthy journey to get there. The course was in excellent condition, the club staff were wonderful hosts, and the caddies were fantastic. It was a great day, despite temperatures soaring to 34 degrees C!

Maats and Liebherr would like to thank everyone for their support and look forward to seeing you in Prague in 2020.

Congratulations to all trophy winners, namely:

First Place - Dave Douglas, Randall Schorn, Jeroen Rijk, Gerben van der Veen

Second Place - Kevin Allen, Rod Hardy, Steve Heap, Jeremy Guretzki

Third Place - Robert Bell, Bill Solomon, Jeff Sullivan

Nearest the Pin Men: John Walsh

Longest Drive Ladies: Charlotte Hardy

Longest Drive Men: Tim Swift

New Honorary Members Acclaimed

At the Final Banquet Jean Claude Van de Wiele received his Honorary Membership certificate from John Tikkanen. Andy Lukas, who was unable to attend the convention, was also warmly congratulated.

Details on both these key figures and their work within the association, can be found on page 8 of the September 2019 edition of this newsletter, which is also available online at www.iploca.com/iplocanewsletter.



Photo Gallery

The photos on the following pages, along with many others, will be available on a convention photo USB, to be mailed out to all attendees in December.













Open General Meetings

Business Opportunities

Members were able to learn of important developments and business opportunities during the Business to Business (B2B) meetings and Poster Sessions that were offered on Thursday afternoon.

The 10-minute B2B meetings were hosted by Bechtel Pipeline, Brightstar Asia, Fluor, Herrenknecht, Jemena, Liebherr and Ritchie Bros Auctioneers.

Herrenknecht, PIH, PipeSak Incorporated, RSK Group, Sherwin Williams, Vermeer Corporation, Volvo Construction Equipment and Worldwide Group presented Poster Sessions.

Strategic Review

During the AGM on Friday, IPLOCA President 2018-2019, John Tikkanen, and Strategy Consultant, Dr. Edward Bond, updated members on the results of the year-long Strategic Review 'Fit for the Future', and the changes planned to be implemented in the coming months/years. (See page 12 for further details.)

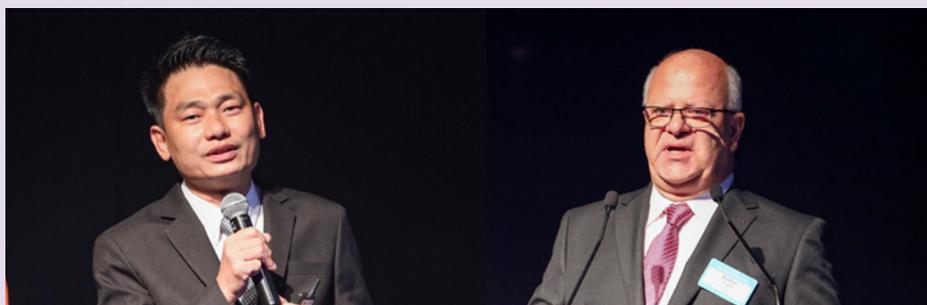
Save the Date !

54th Annual Convention in **Prague, Czech Republic** from **14 to 18 September 2020**.



Guest Speakers at the Bangkok Convention

Many thanks to our guest speakers for their contribution during the OGMs on Thursday and Friday. Copies of their presentations are available at www.iploca.com/2019conventionspeakers



Ekachai Yimsakul

Vice President of Engineering & Project Management,
PTT Public Company Ltd.

Robert Avery

Managing Director, Brightstar Asia Ltd.

Key Success Factors for Pipeline Projects in Thailand



Shan Xudong

Managing Director, CPP, Thailand

**The 4th Transmission Pipeline
Midline Compressor Station Project**



Jonathan Green

Executive Director, Business
Development & Strategy, IMAP Global
**Trends in the Global Upstream
Oil Industry and the Realities of
its Response to Climate Change**



Brad MacLean

Senior Vice President, Safety &
Organisational Effectiveness,
U.S. Pipeline
Safety in Transition



Jonathan Spink

General Manager - Major Projects,
Jemena
**The Northern Gas Pipeline –
Building a Social License**



Laura Speake

Chief Economist, Energy &
Transportation, Caterpillar.
**Macroeconomic Influences on
Oil & Gas Markets**



Agostino Napolitano

Head of Onshore Transportation
System Operations, SAIPEM
**Pipeline Construction Remote
Monitoring**

Presentation of Awards in Bangkok

The IPLOCA awards are intended to reward those companies that are in the lead in their search for excellence. Three awards were presented in Bangkok - further information on the entries is available on our website, along with the list of submissions received.



The 2019 IPLOCA Health and Safety Award

sponsored by Chevron

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

This year's award was given to Spiecapag represented by Bruno Guy de Chamisso, in recognition of their Goal Post 2.0 initiative, a new goal post which is quicker, easier and safer to put in place. The Adjudication Committee made this choice because the product is simple, creative, innovative and results from a team building exercise; it avoids people working at heights; is not expensive and overall has a high efficiency to save lives and money. Bruno commented, "It is an award for all our employees who are contributing every day to the safety culture of our company. Receiving this award will make them feel very proud and it will motivate them to continue to find initiatives to have better safety on our sites, which is of the utmost importance for our company and obviously for our industry."

The runners-up were:

- **SICIM S.P.A.**, represented by Guido Cagnani, for their Gas Cylinder Lifting Device - a simple, innovative and certified cost effective way to reduce manual lifting incidents
- **Tekfen Construction and Installation Co., Inc.**, represented by Levent Kafkasli, for their "4.0 IoT" system, enabling one software for Journey Management in all projects and preventing unauthorised use of machinery, equipment and vehicles. It also monitors periodic maintenance of all equipment and movements on the route and on the construction site.



John Tikkanen, Bruno Guy de Chamisso, Guido Cagnani, Levent Kafkasli, Sue Sljivic



The 2019 IPLOCA New Technologies Award

sponsored by BP



John Tikkanen, Adam Wynne Hughes, Jeremy Guretzki, Bill Solomon

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

The New Technologies Adjudication Committee decided to present the award to CRC-Evans Pipeline International, represented by Adam Wynne Hughes and Jeremy Guretzki, for their NeXray Real-Time Radiography Solution. This entry was selected because the tool was successfully deployed in the field, eliminating the use of films and chemicals and its integration with the Cloud offers real time evaluation and results.

One runner-up was named:

- **Consolidated Contractors Company (CCC)**, represented by Saji Khoury, for their IoT Enabled Enterprise Solution, a smart construction helmet, created in collaboration with WakeCap, that connects workers at the construction site to improve safety and productivity.



The 2019 IPLOCA Corporate Social Responsibility Award

TOTAL sponsored by Total

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

The Adjudication Committee decided to present the award to Ledcor Pipeline Limited, represented by Bill Partington in recognition of their "Making an Impact" initiative; fundraising is undertaken by employees and matched by the company to support projects to improve the quality of life of the people affected by pipeline construction.

This entry was selected particularly because it includes a time commitment by employees and is an on-going programme. Bill said that winning this award is an affirmation of all the efforts the company has put in over the years. "It is an outstanding recognition for the company...we greatly appreciate it."

The Committee also named two runners-up:

- **Kalpataru Power Transmission Limited**, represented by Virendra Varshney, for the construction of a dormitory

for orphan girls in Mumbai, India. The judges particularly liked that it impacts a large group of people, supporting those who are vulnerable, that it addresses specific needs of local communities and that the effect is long lasting.

- **Tekfen Construction and Installation Co., Inc.**, represented by Levent Kafkasli, for their Summer School programme, an effective local project, creating a big impact with low cost. It was also selected because it had been developed in such a way as to be continued by the operator.

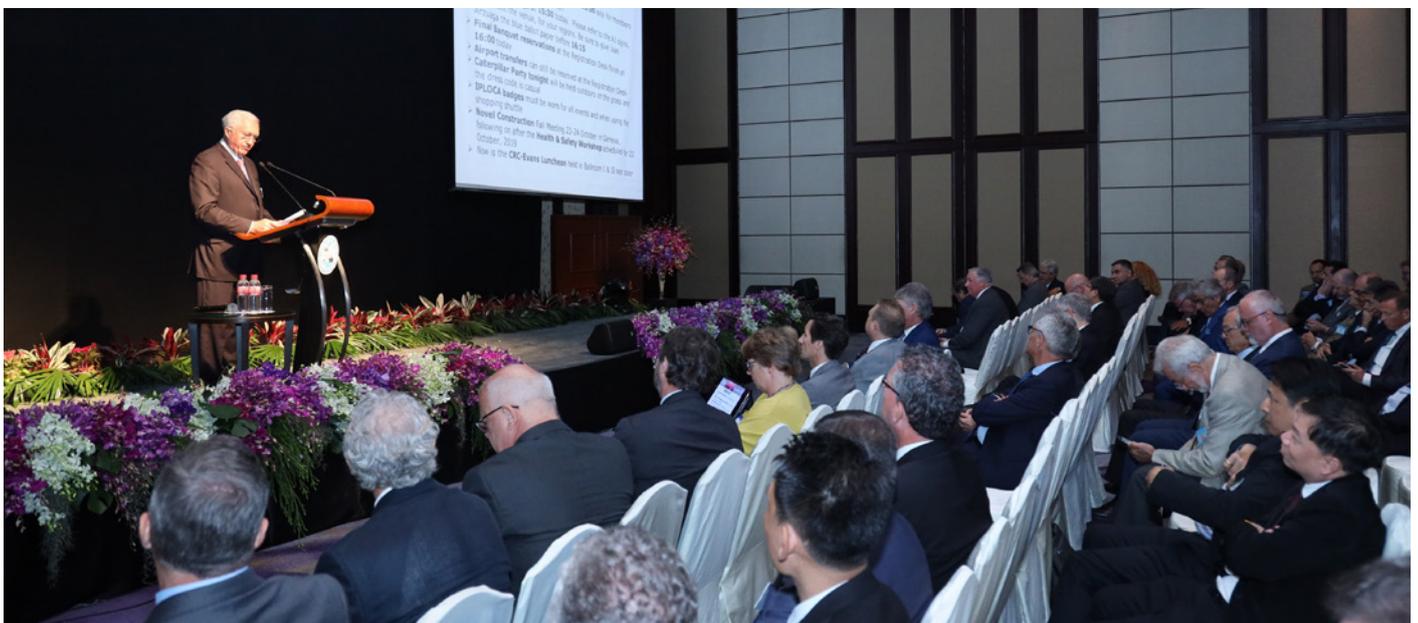


John Tikkanen, Pascal Laroche (Total), Bill Partington, Virendra Varshney, Levent Kafkasli, Sue Sljivic

Submissions for 2020

Thank you to all those who participated in the 2019 awards and we encourage all members to prepare and submit entries for next year, which, in addition to the IPLOCA Health & Safety Award sponsored by Chevron,

will include the IPLOCA Environmental Award sponsored by Shell and the IPLOCA Excellence in Project Execution Award. Submissions are required by May 2020 and further information will be available on www.iploca.com.



Innovation Committee

At its last meeting in Bangkok, the Board of Directors appointed Paul Andrews (Fluor) as Chair of the Innovation Committee, replacing Bill Solomon. Paul, along with Bruno Pomaré (Spiecapag), is one of the initiators of the Novel Construction Initiative developed in June 2004.

Novel Construction Fall Session

Around 60 delegates from across the world participated in the Fall Novel Construction meeting held at the Mövenpick hotel in Geneva on 23-24 October. On Wednesday morning, presentations were made by IPLOCA members and invited speakers on their novel products and initiatives with the aim of improving pipeline design and construction.

These included the following topics and speakers:

- **How Pipeline Companies are Using Drones for Surveying and Safety***
Terence Thiel, Wingtra
- **NexRay: Expanding Capabilities in Real Time Radiography***
Mark Jay, STANLEY Inspection
- **Safety Breaker. A Concept Safety Device to Prevent Accidents in Tie-ins**
Gustavo Guaytima, PipeSak



- **Grow Your Business with SHERP***
Iaroslav Prygara, Quadro International
- **Changing the Perspective of Surface Preparation Methods Through Innovation**
Dinko Cudic, Monti Werkzeuge GmbH
- **Update on the Technology Catalogue Platform**
Erik Nijveld, Deployment Matters

* Articles on these initiatives follow this report and copies of the presentations and videos are available on www.iploca.com/novelsession.

“The Road to Success”

At the end of the morning, Grégoire de Montmollin presented the newly developed platform specially designed to facilitate updates and further developments of “The Road to Success” app, which was eagerly awaited by the working groups. It is expected that the platform will be available to all IPLOCA members by the end of the year after receiving feedback from the different working groups.

In the afternoon, group work sessions took place to review existing/new chapters to be completed and new subjects to be developed. The following morning, the

working groups presented their discussions, specifically covering comments on the platform to update the app, chapters being developed, new subjects being proposed, work assignments and completion milestones, and targets for the next Spring Session. Some groups also suggested other social media platforms to expand the Social Media Plan recently launched by IPLOCA.

We would like to thank all of those who participated and look forward to meeting you again from 8 to 9 April 2020 in Athens (Greece). If you would like to take part in this initiative, please contact the appropriate group leader or gregoire.demontmollin@iploca.com.

Working Groups	Leader (Company)	Email
Health & Safety	Alain Gauthiez (Spiecapag)	alain.gauthiez@spiecapag.com
Earthworks & Crossings	Diana Rennkamp (Herrenknecht)	rennkamp.diana@herrenknecht.de
Welding & NDT	Gustavo Guaytima (PipeSak)	gguaytima@pipesak.com
New Trends & Innovation	Mustafa Abusalah (C.C.C.)	mabusalah@ccc.net
Coatings	Somaieh Salehpour (Shawcor)	somaieh.salehpour@shawcor.com
Environment	Sue Sljivic (RSK)	ssljivic@rsk.co.uk
Logistics	Jean-Baptiste Rousseau (Spiecapag)	jean-baptiste.rousseau@spiecapag.com
Pre-commissioning	Vincenzo Calabria (SICIM)	v.calabria@sicim.eu
Bending	Geert Dieperink (Maats)	dieperink@maats.com

How Pipeline Companies are Using Drones for Surveying and to Improve Safety

Matthieu Lefebvre and Terence Thiel, Wingtra

In asset management, surveying applications have fostered innovation and significant returns on investment. The reasons begin with the “four Ds” — a term coined by GE Ventures to describe assets as: dull, dirty, dangerous and distant.

In a 2014 interview, Sue Siegel, CEO of GE Ventures, added a fifth “D”—data—saying simply, “imagine that if you’re [surveying] faster, you might be able to do it more often. And more data typically will give you better data.” So how can companies leverage surveying innovations in their 5D assets to help them make better-informed decisions for greater ROI? Addressing the 5D asset challenge means focusing on the right key performance indicators (KPIs) to quantify efficiencies brought by innovation, and shift from reactive to proactive pipeline management.

The industry KPIs are all about efficiency, safety, cost, and ... data. Looking through the prism of these KPIs, today’s surveying solutions—mostly terrestrial, aircraft or helicopter—are either unsafe, suboptimal or expensive. Drones are on average 50% less expensive than other surveying methods and offer safer operating conditions for workers during data collection. With a higher operational efficiency, they reduce labour costs by 6 times. Ultimately they deliver more accurate data, down to 1 cm (0.4 in) accuracy and within 98% of true volumes. And they do it more frequently, which leads to better data.

Are drones the biggest opportunity to get greater KPIs these days? Yes! And the 5D combination is one of the most compelling arguments for drone adoption in companies where uptime is money, crews are at risk, and structures and facilities are often expected to last 50 to 100 years. The other compelling argument is cost reduction. In the pipeline market, drones can improve efficiency, reduce downtime and keep humans safe.



How should drone capability be leveraged in organisations to unlock the most business value? The outsourced approach—where a third-party provider will manage the drone deployment from end-to-end—is the fastest, less risky and less capital intensive solution. It is also the least integrated and least organisation-specific, limiting the capability—therefore the values—to something easily imitable by the competitors.

Alternatively, the insourced approach will involve customised workflows, automated processes and the seamless integration of the drone’s flight capabilities and data into the organisation. The resulting data-intensive infrastructure can be refined with artificial intelligence and machine learning techniques. These allow for tracking conditions over time, and they power predictive analytics and unprecedented specific insights. Done the right way, this approach will help differentiate the organisation in the market, giving it a sustainable competitive advantage. The hybrid approach—like the name suggests—incorporates aspects of both outsourced and insourced models.

At Wingtra, we build the world’s leading vertical take-off and landing (VTOL) drone to help businesses collect accurate aerial images, quickly, capturing large areas, for surveying and inspection applications. Founded in 2016 in Zurich, at the centre of the Swiss drone valley, we have quickly expanded to comprise a global distributor network, marketing WingtraOne in more than 50 countries. Today we are a fast-growing team of passionate Wingtranauts, all committed to a single goal: building the most reliable VTOL drone out there. By combining large coverage (up to 400 ha/988 ac in 1 flight), high image quality (42 MP), greater accuracy—down to 1 cm (0.4 in)—and full autonomy from take-off to landing, the WingtraOne is a unique solution that fulfills the ambitious requirements of our professional customers around the world.

Manned aircraft

Quick and exhaustive, but fairly inaccurate and expensive, thus infrequent, and fairly unsafe

Terrestrial work

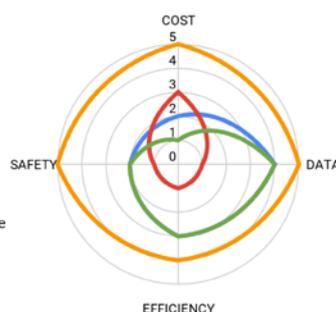
Accurate but non exhaustive; unsafe and super slow, thus infrequent

Manned copter

Quick and exhaustive, but fairly inaccurate and super expensive, thus infrequent, and fairly unsafe

Fixed-wing VTOL drone

Quick and exhaustive, accurate, safe and cheap, thus frequent





NeXray

Expanding Capabilities in Real-Time Radiography

Jeremy Guretzki, STANLEY Inspection

STANLEY Inspection presented their NeXray Real-Time Radiography system at the Novel Construction Fall Session in Geneva. Earlier in the month CRC-Evans and STANLEY Inspection had been honoured to receive the 2019 IPLOCA New Technologies Award in recognition of this new development.

We set out to develop a solution that would eliminate the use of chemicals and films, and provide a safer and quicker alternative to inspecting large diameter and thick wall applications that are ever-so-present in the pipeline construction industry. STANLEY Inspection is a company that specialises in non-destructive testing (NDT), third-party inspection, certified welding inspection, engineering services and fracture mechanics. Before the development of NeXray, the industry was lacking a real-time

radiography solution for girth welds that were measuring 42-48" outside diameter and 0.750" wall thickness. Radiography is used to ensure the integrity of welded butt joints in piping, structural, tank and pressure vessel work. Currently, many of these applications are inspected using conventional film radiography.

There are many disadvantages of using film radiography compared to the real-time radiography that can be accomplished through NeXray. Some of those drawbacks include higher cycle time that increase costs; larger radiation exposure; environmentally unfriendly chemicals; inability to detect small defects; and, difficulty storing, managing and sharing non-digital images.

NeXray, designed to provide exceptional cycle time and quality, addresses these disadvantages to provide STANLEY Inspection with an accurate – and safe – digital image for girth weld inspection, including larger diameter applications from 8 inches to 48 inches and wall thickness up to an inch. With the use of NeXray, there is a higher contrast sensitivity, which leads to detection of the finest defects while reducing and eliminating the



use of films and exposure to harmful chemicals. Using NeXray, the image becomes available as the radiation source and detector scan around the circumference of the girth weld. This provides users with instant results upon completion of each weld inspection. The technician can perform markups and measurements while the scan is still in process and does not need to wait for the entire scan to be finished. This solution is for pipeline mainlines, tie-ins, single-wall and double-wall applications. The inspection file is then stored on redundant hard drives – and on the cloud – allowing easy access at any time,

which makes it possible for auditors to monitor several pipeline construction projects concurrently from a remote central location.

The pipeline construction industry needs these types of solutions to keep employees safe while in the field, and save time and money for customers. With NeXray, we can provide the highest level of service and reliability for our customers. Following commercialisation late last year, NeXray has been used on pipeline projects totaling over 700 miles.

Grow Your Business

With SHERP

Kateryna Kovalenko and Iaroslav Prygara, SHERP

The world would be a better place if we had more confidence to overcome obstacles in our way.

An Idea is Born

Sergey Samokhvalov, one of the co-founders of SHERP, is originally from the Russian taiga. For more than 20 years, he has been in the business of gas pipe maintenance and travelled to explore the region. During one of his numerous expeditions, he met Vladimir Shkolnik, who introduced him to Alexei Garagashian, an engineer and inventor. Alexei showed Sergey one of his works: the first prototype of the SHERP all-terrain vehicle (ATV). Having tried almost everything from the world of four-wheel drive vehicles, they together had been searching for an ultimate all-terrain vehicle that could be used to travel to any uncharted territory. All the expedition's participants were so surprised by SHERP's operating capabilities and ease of control that they decided to work on the prototype to create a market-ready vehicle.

Innovation

There were several requirements: the vehicle had to be easily repairable on the go, able to move through water, go over any thickets, scramble and climb up the thin ice. This is how SHERP ATV was created. Ultra-low-pressure tyres are a key innovation introduced by SHERP. The four tyres are interconnected by a special "eco-circuit" and pumped up by the exhaust gases. Due to this technology, the wheels act as a suspension and allow the vehicle to overcome any humps and bumps of the expedition routes. The system does not need any air compressor, so it keeps the SHERP light and reliable. Ease of maintenance and reparability are the cornerstone of the SHERP. The

combination of simple solutions and cutting-edge technologies are the basis of the SHERP team philosophy.

Establishment of the first production plant

The first SHERP ATV was produced and presented in 2015. By placing the plant in Kyiv, Ukraine, the company has attracted leading engineers and specialists to improve the current model and create new prototypes of future vehicles. In 2017, SHERP opened its North American office in Winnipeg, Canada.

Business transformation

Originally designed for travellers, hunters, and fans of cross-country driving, SHERP has found its unique and social mission in solving global problems faced by non-governmental international organisations, oil and gas market leaders, rescuers, and utility and hydro companies around the world. In 2018, SHERP delivered the first vehicle to the world's largest humanitarian organisation, World Food Programme, which supplies about 4 million tons of food annually.

Business development and company goals

Since 2018, the company has been cooperating with the European Bank for Reconstruction & Development.

SHERP the Ark capabilities

21 Passengers for transportation	30 Km/h Max. speed
3,400 Kg Load capacity	82 hours Fuel autonomy
6 Km/h Overwater speed	1,5 m Overcoming obstacles
40° Maximum gradeability	


SHERP

SHERP Pro capabilities

4 Passengers for transportation	45 Km/h Max. speed
1000 Kg Load capacity	115 hours Fuel autonomy
6 Km/h Overwater speed	1 m Overcoming obstacles
35° Maximum gradeability	



SHERP

Specialists from Finland, Germany and Romania have allowed SHERP to take the product quality to a whole new level, implementing new practices and improving production efficiency in Kyiv. It has also allowed SHERP to work on new models.

Products

We produce two models: SHERP Pro and SHERP the Ark. The parts are made of DOCOL steel, which is resistant to deformation. The heart of SHERP Pro is an engine produced by Kubota which has specialised in the manufacture of high-tech diesel engines for 120 years. The exterior coating is Raptor polyurethane paint; this type of coating has soundproof and water repellent properties. The heart of the SHERP the Ark is a Doosan Infracore engine, which is eco-friendly, highly efficient and has optimum performance. The transmission is equipped with a Renault (JR5) manual gearbox.

SHERP offers 24/7 technical support and service, as well as provides training for dealers and drivers to ensure efficient and safe operations. SHERP is a reliable assistant for professionals and organisations who need to overcome natural difficulties and challenging environments as part of their job.

Member News

Cross Country Infrastructure Services Acquires Five Star Equipment Rental

Cross Country Infrastructure Services has acquired Five Star Equipment Leasing & Rental. With the addition of Five Star, Cross Country gains an established equipment rental player in the central U.S.A. and at the crossroads of a multitude of oil & gas and infrastructure projects. Cross Country stated that Five Star's utility size equipment and general equipment lines will allow the company to add an expanded product offering to its existing customer base, while also increasing Cross Country's reach in the Central U.S.A. market. This addition enables the company to serve an important market with quality equipment and experienced staff. Five Star Equipment Rental has been serving Oklahoma since 1997 and provides equipment rental solutions and service for all of Oklahoma and its bordering states for the construction, energy, industrial and infrastructure markets. Five Star equipment rentals include earthmoving, compaction, aerial, forklifts and water pumping solutions.

Expansion in Sales: DENSO Group Germany Strengthens its International Focus

DENSO Group Germany recently expanded its international presence with three new sales positions. **Rajeev Sharma**, based in Dubai, is responsible for the Middle East & Asia Pacific regions as Technical

Sales Manager. **Luc Perrad**, as part of the international sales team in Leverkusen, Germany, is Area Sales Manager, providing comprehensive product and project related advice to customers. Both R. Sharma and L. Perrad have gathered more than 15 years of sales experience, among others at Polyguard Corporation and Berry Plastics Group. As graduated engineers, they have expert knowledge of corrosion prevention and especially pipeline coating and wrapping. **Ana Gabriela Cervantes** has joined as Technical Sales Manager to grow the company's Latin American business. She brings over 25 years of extensive consulting and sales experience in the pipeline business. Located in California, close to the regional markets, A. Cervantes is now responsible for all client business in the area. Before joining DENSO, she was Technical Consultant and Sales Director responsible for Latin America at Polyguard, Seal for Life and Berry Plastics. These new roles confirm DENSO's strategy to expand its international business and to strengthen connections with both customers and partners in the regions.



Rajeev Sharma, Luc Perrad and Ana Gabriela Cervantes

New Load Moment Limitation (LMB) System on Liebherr Pipe Layers



A basic premise for today's pipeline projects is that the ever increasing size of pipe diameters can be reliably installed with as few machines as possible. Liebherr steps up to this challenge with pipe layers that are equipped with the latest safety features. A lifting cylinder that is installed instead of a second winch eliminates the risk of an overpull of the boom. Together with the standard free fall device of the hoist winch and the fully integrated Load Moment Limitation (LMB), Liebherr pipe layers provide maximum safety for the operator. All components of the Liebherr LMB are directly mounted on the basic machine and the system works in single as well as in fleet mode. For the calculation of load momentum the system also takes into account the machine's inclination. In the cabin the operator is able to see all relevant parameters on the main display. On the outside, signal lamps on the cab roof inform the foreman of the current level of safety.



PIH President Appointed as President STANLEY Oil & Gas

Adam Wynne Hughes has been appointed as President of STANLEY Oil & Gas, a division of Stanley Black & Decker that encompasses CRC-Evans, Pipeline Induction Heat (PIH) and STANLEY Inspection.

Adam joined STANLEY Oil & Gas in 2011 as a Managing Director of CRC-Evans Inspection Group. From there, he has held leadership roles with CRC-Evans EMEA, CRC-Evans Offshore and PIH. Most recently, he served as President of PIH, PIH Middle East and STANLEY Inspection South Africa. His vast experience over the past 35 years in the construction and engineering industry includes an exceptional track record when dealing with complex multidisciplinary oil and gas projects. As President of STANLEY Oil & Gas, Adam provides strategic leadership and day-to-day operational management for all brands, propelling STANLEY Oil &

Gas to achieve its business objectives and continue to be a leader in the industry. He works closely with the product development and engineering teams to support the release of new innovative products and solutions. He is an IPLOCA Past President and currently an IPLOCA board member and Treasurer, and also Chairman of the PIG (Pipeline Industry Guild).

Pipeline Technique Welding in Oman

Pipeline Technique pushed through the 25,000 duplex 8" – 24" OD weld mark on the second phase of the BP Khazzan Project - Construction & Installation of Gas Gathering System. The project is located in Oman - Khazzan, Block 61, approximately 350km south west of Muscat. The single joints are welded into double joints at the Pipeline Technique double jointing facility and following non-destructive testing are stored in readiness for stringing and subsequent field welding. This approach ensures that 50% of the welds are already accepted, mitigating any field production schedule delay risks. Pre-preparation of double joints for the field gives more consistent productivity levels, a less harsh working environment for



personnel and equipment, and a controlled and improved safety performance. The use of the company's in-house pipe end measuring system SCIO, equipped with the Omnifit software has reduced fit up times, improved and minimised pipe alignment offset and optimised the pipe usage options. The welding comprises a combination of automatic GTAW & GTAW/pGMAW processes to optimise production, with onsite crew training for welding systems given in Oman.

M. Al-Barghash Co (MBTC)'s Localisation & Saudisation Empowerment Structure

MBTC is committed to achieve the Kingdom's vision 2030 by promoting Saudisation content in all disciplines

and has achieved the Platimun Nitaqaat status to empower the Saudi work force in various In-Kingdom Total Value Added (IKTVA) categories throughout the Kingdom. MBTC is implementing vision 2030, following the IKTVA Programme with Saudi Aramco, and has been very supportive of this programme since 2013. MBTC's strategy is to create value in every aspect of its business, maximising long-term economic growth and diversification. Through the IKTVA Programme, MBTC is taking action to drive additional domestic value creation to support a rapidly changing Kingdom and foster future prosperity.

Sicim SpA: Capacity4Gas Project "Gazelle 2"

Sicim SpA and Net4Gas recently signed an agreement for the construction in Czech Republic of the Capacity4Gas EPC Project – Lot II, consisting of a 89 Km x 56" pipeline between Malmerice and Primda nodes. Connected to the German EUGAL pipeline, this project increases the transmission capacity between the Nord Stream II pipeline and customers in southern Europe, and improves the gas supplies to the Czech Republic and Slovakia networks. Sicim is also installing Lots 5&6 of the EUGAL Pipeline in Germany, for a total of 128 km of 56" gasline. Construction activities are about 70% complete.



This project represents a further come back for the company to the European pipeline market. Having recently completed the installation of the Cluden to Brighthouse pipeline in Scotland, Sicim is now looking at new projects being planned in Denmark, Poland, Ukraine, Bulgaria, Serbia and Greece apart from Italy. The construction of the Gazelle 2 pipeline will start in November 2019, with completion scheduled for the end of 2020. Sicim has planned to employ about 500 workers for the execution of this project, including staff, pipeline specialists and heavy machine operators other than labourers that will mainly come from ongoing projects abroad in a country where unemployment is close to zero. More than 300 units of specialised pipeline equipment will also be imported.

Innovations for Safe Pipe Handling in India Using Vacuum

Trikausch India Pvt. Ltd. has supplied multiple vacuum handling solutions in association with their principal, Aerolift Industrials B.V., to its customers in the Indian market for use with single and multiple pipes.



These vacuum systems for pipes are customised to the individual requirements of each customer, the primary focus being to increase safety by reducing the number of people around such heavy loads. They are being used in India by leading pipe mills and port authorities for logistics and dispatch.

Sur de Texas – Tuxpan Marine Pipeline Achieves Commercial In-Service



Mid-September, the Sur de Texas – Tuxpan (Sur de Texas) marine gas pipeline achieved commercial in-service: gas started flowing in Mexico's first offshore natural gas pipeline. Sur de Texas was awarded to Infraestructura Marina del Golfo (IMG), a joint venture between TC Energía and IEnova, through a public international bidding from Mexico's state power company, Comision Federal de Electricidad (CFE). With



a capacity for transporting 2.6 bcf of natural gas per day, Sur de Texas significantly increases the reliable supply of economic natural gas to Mexico to meet the growing demand in the central and south-southeast regions of the country. Sur de Texas supplies fuel to feed numerous power plants located in Altamira, Tuxpan and the central region of Mexico through interconnections with TC Energía's Tamazunchale and Tuxpan pipelines and with the Sistrangas.

The project represents approximately US\$2.6 billion in infrastructure investment and involved the creation of more than 3,000 jobs during its construction phase. The 772 km (480 miles) of 42" diameter pipeline runs offshore from the border with the U.S.A., near Brownsville, Texas to Altamira in Tamaulipas, where it continues towards Tuxpan in the state of Veracruz.

Sur de Texas was also the highest single foreign investment source into Mexico in 2017. The Sur de Texas pipeline team worked hand-in-hand with regulators, landowners, Tamaulipas and Veracruz state governments, local authorities and other stakeholders to successfully complete the project, achieving industry-leading safety and quality performance. The pipeline was built using cutting-edge technology and is designed to protect the environment.

Important IPLOCA Dates

Member News for IPLOCA March Newsletter

15 January - Deadline for submissions
newsletter@iploca.com

Member News for IPLOCA June Newsletter

15 April - Deadline for submissions
newsletter@iploca.com

Upcoming Events

2020

PLCA 72nd Annual Convention

4-8 February – La Quinta, CA, U.S.A.

www.plca.org

Horizontal Directional Drilling Academy

10-11 February – Scottsdale, AZ, U.S.A.

www.hddacademy.com

USD 300 discount for IPLOCA members

Pipeline Coating

11-13 February – Vienna, Austria

www.ami.international/events/event?Code=C1039

PPIM – Pipeline Pigging and Integrity Management

17-20 February – Houston, TX, U.S.A.

www.clarion.org

DCA 59th Convention

24-29 February – Boca Raton, FL, U.S.A.

www.dcaweb.org

Pipeline Opportunities Conference

3 March – Houston, TX, USA

www.pipeline-opportunities.com

PIG – The Pipeline Industries Guild Annual Dinner

10 March – London, U.K.

www.pipeguild.com

Pipeline Technology Conference

30 March - 2 April – Berlin, Germany

www.pipeline-conference.com

IPLOCA Novel Construction Spring Session

8-9 April – Athens, Greece



Hannover Messe

20-24 April – Hannover, Germany

www.hannovermesse.de

PLCAC 66th Annual Convention

20-24 April – Maui, Hawaii, U.S.A.

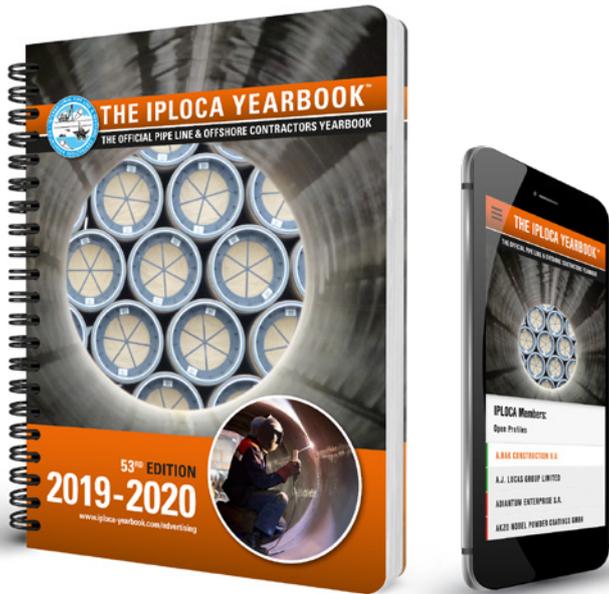
www.pipeline.ca



IPLOCA 54th Annual Convention

14-18 September

Prague, Czech Republic



The IPLOCA Yearbook is available in hardcopy and a quarterly updated version can also be accessed on your mobile phone at mobile.iploca-yearbook.com

Do not hesitate to send us the addresses of the persons to whom you wish us to send a copy of the IPLOCA Yearbook. Additional printed copies can be obtained on request from: www.iploca-yearbook.com.

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.

Be sure to also send a copy to dilanh.nguyen@iploca.com. In this way we will be able update all our mailing lists and the membership database.

We wish all our readers a joyful, festive season with the prospect of a safe and healthy New Year.

Pieter & Peter Schoonenberg
Publishers IPLOCA Yearbook
 Pedemex B.V.

IPLOCA Yearbook 2019-2020

At the end of November the 53rd edition of the IPLOCA Yearbook was distributed worldwide to the desks and in the field offices of pipeline companies.

IPLOCA Media Partners

Editorial opportunities are available for IPLOCA Members. Contact: jacqueline.tempel@iploca.com.

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2019-2020



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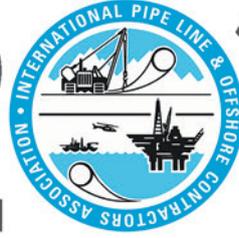
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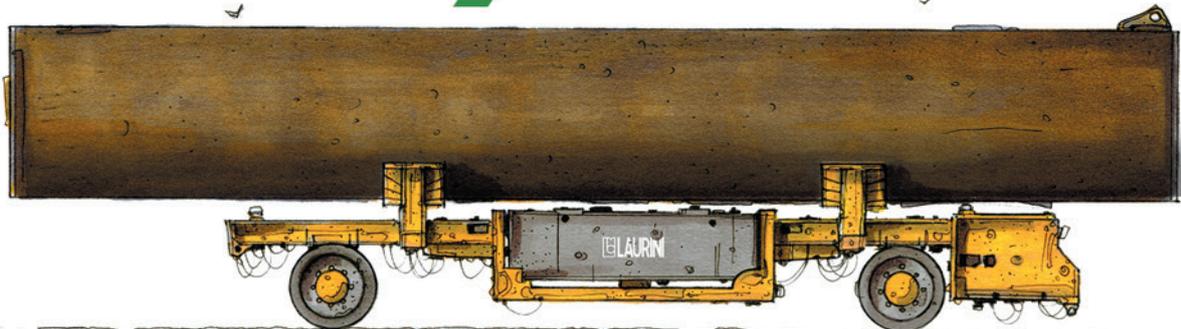
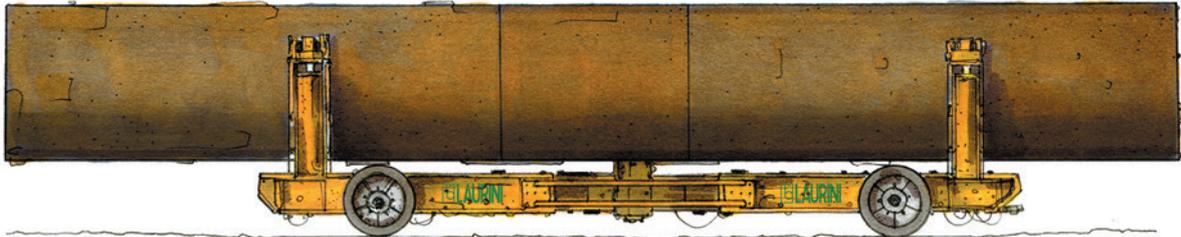
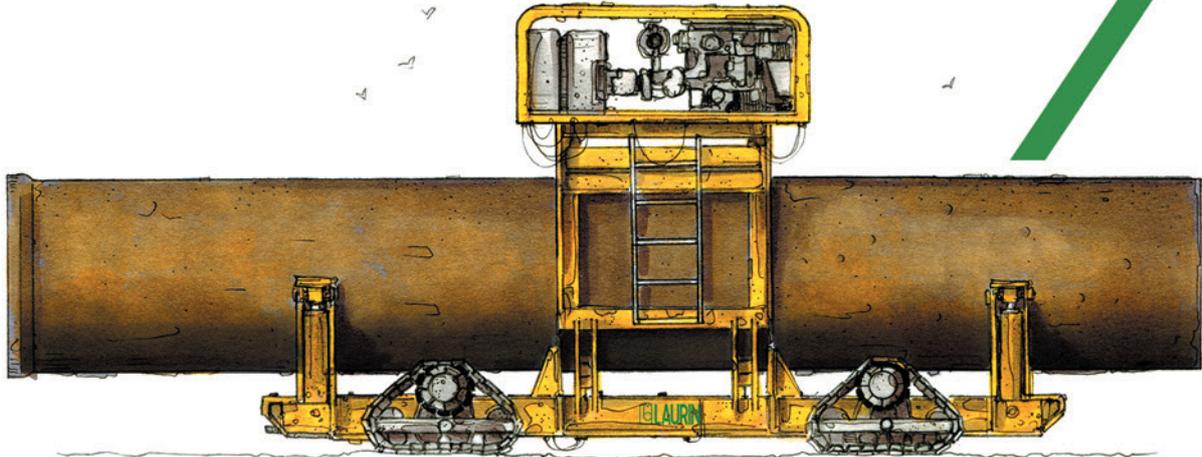
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