



THE IPLOCA NEWSLETTER

DECEMBER 2021



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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 feel honoured to be nominated IPLOCA President for 2021-2022. These are challenging times for doing business, particularly at an international level, and no less so in our industry. I am, however, along with the rest of the IPLOCA Board Directors and the Secretariat, hopeful that the global scene is changing and doors are starting to open to allow us to meet more and more frequently face-to-face.

In recognition of the difficulties we had to face, such as postponing the Annual Convention for a second time and chairing all Board Meetings virtually, I would like to thank Leon Richards who piloted us through the stormy waters of 2021.

We welcome six new directors, who, having never been on the Board before, will provide additional enthusiasm and ideas and also seven directors who are returning to boost the ranks and complement the existing board members. During a Special General Meeting in September, a motion was passed to 'exceptionally appoint, for the 2021-2022 term only, up to nine additional Directors from the Regular Members and the Associate Members.' This has given the opportunity for Board Directors arriving at the end of their term to continue one more year in addition to new directors being able to join the Board.

I would like to pay tribute to Albert Zakhem and Ebbo Laenge, two great friends and entrepreneur directors, who passed away during the past year. I would particularly like to thank Ebbo; if he hadn't introduced me to IPLOCA, I would not have become the Association's President!

One of our foremost challenges this year is to ensure we remain relevant and continue to deliver value to our current member companies, as well as to encourage new members. I look forward to working with the increased number of Board Directors and combining our efforts to have more companies join IPLOCA.

As shown during the Treasurer's Report at the AGM the Association is still in a good position financially despite the difficult economic situation worldwide.

Following the positive attendance at the HSE Workshop and Novel Construction Fall Session, we are optimistic that we can all meet up for our 54th Annual Convention in Prague in September 2022. It is important that next year's convention is a big success in terms of participation. There will also be many sponsorship opportunities. Before that, we will be holding a Regional Meeting followed by the March Board Meeting in Baku, Azerbaijan.

Please feel free at any time to contact me, or any other director, if you have suggestions or wish to provide feedback on the Association. I am excited about meeting and working with many of our members during this coming term.

Gonzalo Montenegro

IPLOCA President 2021-2022

News from Geneva

IPLOCA Member Project Near IPLOCA Offices



Together with its partners Induni and Scrasa, IPLOCA member, Denys, is installing 1.9 km of reinforced concrete pipes with a steel sheet core by means of pipe jacking, passing close to IPLOCA's Secretariat offices.

This uncommon type of pipe is made by Denys' daughter company SOCEA. It will result in an insulated pipeline

with a concrete lining, capable of withstanding an internal pressure of 16 bars. The pipeline will be used by their client SIG (Services Industriels de Genève) for the Génilac project. This is a district heating project, using the lake water to cool and heat buildings in the centre of Geneva. The first of six drives started in August of this year, and the last drive is expected to finish in September 2022.

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 another challenging year.

Once again, the world sanitary situation has highlighted our appreciation of your friendships and we are also grateful to you for your expertise and the time you have shared with us. In 2022 we look forward to meeting up more regularly face-to-face. Our very best wishes for a healthy, safe and revitalised new year!



© Prague City Tourism

Registration for 2022 Annual Convention 19-23 September

Please note that registration will open earlier than usual, on Monday, 4 April at 15.00 CET!

IPLOCA Secretariat Staff, from left to right: Sébastien Goetschmann, Accounting Manager; Caroline Caravellas, Newsletter Editor; Juan Arzuaga, Executive Secretary; Caroline Green, Convention Manager; Grégoire de Montmollin, Innovation & Convention Coordinator; Jacqueline Tempel, Membership Manager.

Board Meeting Update

**23-24 September and 28 October
via video conference**

The September Board Meeting was held via video conference. For the October meeting most directors attended remotely, although a small number were physically present at the Association's AGM at the Crowne Plaza Athens – City Centre hotel.

Safety Moment

Bruno Pomaré presented some examples, using videos, of tree felling when working on pipeline projects around the globe. Lumber jacks generally organise tree felling using chainsaws but, unfortunately, even with extensive experience it is frequent that accidents occur. In order to avoid tree felling surprises, it is recommended to use a tree harvester with a protected cabin. As this equipment is expensive, it should ideally be used for clearing dense areas such as forests.

The lifesaving rules for tree felling are: stay out of the line of fire; complete planned and point-of-work (last minute) risk assessments for every task; always use appropriate and correctly fitted personal protective equipment; only use competent and appropriately trained personnel with the right equipment for the task.

HSE & CSR Committee

Bruno Pomaré, HSE & CSR Chairman, presented the HSE & CSR Committee Report. The next HSE & CSR Committee Meeting and Workshop was planned to be held on Tuesday, 26 October in conjunction with the Novel Construction Fall Session in Athens, Greece.

Since June, the committee had given priority to the preparation of the HSE Workshop taking place in Athens. Additional work had been done with regards to the new KPIs, valid until 2025, which were published in the September 2021 edition of the IPLOCA Newsletter. Driving Golden Rules are not yet finalised but should be completed by the end of the year.

It was noted that the HSE Shared Experiences Platform had received very few new entries for some time. SICIM has, however, greatly contributed with its 22 new items. Board Directors were asked to remind their HSE departments to continue to send all experiences to: sebastien.goetschmann@iploca.com.

Innovation Committee

Gerben Wansink, Innovation Chairman, presented the

Innovation Committee Report. He confirmed the dates for the Novel Construction Fall Session taking place from 27 to 28 October in Athens, Greece, with an expected approximate attendance of 60 to 70. It would be the first face-to-face meeting to take place since autumn 2019.

He reported that 'The Road to Success' had been updated with some new chapters, including one on hydrogen. The IPLOCA Members Technology Platform is slowly seeing an increase in the number of technologies being added. At the time of the Board Meeting, 35 new technologies had been listed. A new technical expert section has been developed and added to the platform. The New Technologies Award winners would be presented during the Novel Session and the trophies will be kept in the IPLOCA Secretariat office until the 2022 Annual Convention.

Juan Arzuaga mentioned that a webinar was held on 24 June hosted by ILF Consulting Engineers on the subject of transporting hydrogen and/or injecting it into natural gas for transportation by pipelines. This subject is rapidly gaining interest in the industry.

The first ad-hoc Hydrogen Sub-committee Meeting was planned to take place in Athens and Board Directors were encouraged to have an employee from their companies join. Leon Richards pointed out that the role of the ad-hoc committee is to work with research that has already been undertaken by PRCI and other associations. The information that is provided will be integrated into the 'RTS' application so as to keep members informed of the best industry practices. This new sub-committee is seeking member company participants.

Membership

Bill Solomon, Membership Chairman, presented the Membership Committee Report. He brought to the attention of the Board that the effects of the pandemic are starting to reflect in the membership figures. The total number of 225 members is now just below the lowest membership figure of 226 noted in 2007. The Secretariat is following up on nearly 30 potential members and Board Directors were encouraged to give their support to this process. The Committee made some suggestions as to how to keep in contact with current members and shared ideas on how to attract new ones, including the possibility of inviting Corresponding Members to present webinars to the rest of the IPLOCA membership.

As of September 2021, the total number of members was 82 Regular Members; 106 Associate Members; 28 Corresponding Members; 3 Academic Members and

6 Honorary Members. This total of 225 members is down by 15 when compared to September last year.

An application for Associate Membership was approved for **ALLU**, Finland, and subsequently for **PBR Technology**, Italy as a Regular Member and **Teréga**, France as a Corresponding Member.

The following companies are no longer IPLOCA Members:

- **Tesmec S.p.A.** (Italy)
- **Remote Medical International** (U.S.A.)
- **Worley** (U.S.A.)
- **Petro-Force** (Lebanon)
- **Equipment Investco** (U.S.A.)

Company name changes were noted as listed below:

- The Sherwin Williams Company to **Sherwin Williams U.K. Ltd.**
- Pipeline Inspection Company to **SPY Inspection Company**
- Cyntech Anchors Ltd. to **Cyntech Group**
- A.Hak Construction B.V. to **A.Hak Groep B.V.**
- OT Industries-KVV Contractor Co. Ltd to **KVV Co. Ltd.**
- Worldwide Group to **Worldwide Pipelines**
- Entrepouse Group to **Entrepouse Contracting**

Scholarship Committee

Kelly Osborn, Scholarship Project Lead, presented the Scholarship Project Update. The 2021 scholarship recipients and statistics related to the project are available in the September 2021 edition of the IPLOCA Newsletter. A mass email would be sent out to all members informing them that Scholarship America is accepting applications for 2022 on behalf of IPLOCA, as of 29 October. A discussion then took place on ideas for promoting the Scholarship Programme and gaining more company sponsors. It was agreed to discuss the future of this project at the next Board Meeting.

Nine scholarship winners attended a webinar organised during the Board Meeting, to express their appreciation to the Board Directors. There were two from Arendal, two from The CAT Group, one from CPP, two from ITW Welding, one from PipeSak and one from Vermeer. Each student introduced themselves, their studies, the member company they represented, and thanked IPLOCA for their generous support towards their studies.

Treasurer's Report

Adam Wynne Hughes said that there are a number of members who have still not paid their membership fees for this year: CHF 54,000 in total is outstanding. Despite the low membership numbers, IPLOCA may be obliged to terminate some memberships. He presented the third quarter results and the forecast for the year-end and stated that there was

very little change as compared to the previous quarter. Some savings have been made with regards to running the Association as there have not been any expenses for Board Meetings so far this year, but this has been offset by the reduced number of members. Overall, the financial situation is better than originally budgeted for at the beginning of the year with a difference of just under CHF 186,000. The audited accounts would be presented during the AGM planned to be held on 28 October.

Annual Convention

The organisation of the Annual Convention in Prague is moving forward as planned. A few details will be finalised at the beginning of next year. It was agreed to hold a sponsorship teleconference between the IPLOCA Secretariat and the Executive Committee to decide the best way forward with regards to advertising sponsorship opportunities, with the understanding that companies would need some forewarning to include sponsorship in next year's budget.

Regional Meetings

The following Regional Meetings are planned:

- **Europe Eastern:** Baku - Wednesday, 16 March 2022
- **Europe Central:** Germany - date to be determined
- **Europe Mediterranean:** Bordeaux, France - date to be confirmed

The Board Directors for those geographical regions are requested to take responsibility for organising the Regional Meetings, and all directors are invited to attend even if the meetings are not being held in their region.

Convening of the 2020-2021 and the 2021-2022 Boards

During the Special General Meeting held on 20 September, the Board put forward the motion to 'exceptionally appoint for the 2021-2022 term only, up to nine additional Directors from the Regular Members and the Associate Members.' This gives the opportunity for Board Directors arriving at the end of their term to continue one more year and for new candidates to join the Board.

Retiring President Leon Richards stated that it had been an extraordinary year with all Board Meetings being held virtually and reduced to 2.5 hours. He thanked all the directors for their participation and for their punctuality considering everyone is based in different time zones. Sadly, during the past presidential term, two Board Members had passed away: Albert Zakhem and Ebbo Laenge, both of whom will be greatly missed. He went on to mention that the Annual Convention had been postponed twice and, despite this, the work of the

Association has continued. One of the highlights was the presentation made to the Board by the scholarship winners, thanking them for the financial support. As shown during the Treasurer's Report at the AGM the Association is still in a good financial position despite the difficult economic situation.

Leon Richards then handed over the responsibility as President to Gonzalo Montenegro for the 2021-2022 term, wishing him every success in leading the Association out of this difficult period. The directors who had finished their term were thanked and the 2021-2022 Board convened. The retiring President Leon Richards tabled the 2021-2022 officers' names and the Board voted unanimously to appoint Gonzalo Montenegro as President; Kelly Osborn as 1st Vice President; Roberto Castelli as 2nd Vice President; and Adam Wynne Hughes as Treasurer.

Nominated and Confirmed Directors

East & Far East: Ma Chunging (CPP) and Virendra Varshney (Kalpataru)

Europe Eastern: Vladilen Ermolin (PTPS JSC) and Levent Kafkasli (Tekfen)

Europe Mediterranean: Roberto Castelli (Bonatti S.p.A.)

Europe Northwest: Adam Wynne Hughes (PIH) and Wilko Koop (A.Hak)

Middle East & Africa: Najib Khoury (CCC) and Ibrahim Zakhem (Zakhem International)

America North: Bobby Poteete (Precision Pipeline LLC) and Kelly Osborn (U.S. Pipeline)

Latin America: Giacomo Bonfanti (GDI) and Gonzalo Montenegro (SEPCON)

Associate Members: Andrew Stuart (Winn & Coales Int.), Robert Linder (Liebherr-Werk Telfs GmbH) and John Tikkanen (Seal for Life Industries)

Appointment of Directors and Directors-at-Large

Gonzalo Montenegro took the chair and presided over the first 2021-2022 Board Meeting and proceeded to list the appointed Directors: Gerben Wansink (Maats) for Europe Central and Christophe Dugail (SPAC) for Europe Mediterranean.

The Board then voted and appointed the following Directors-at-Large: Doug Bailey (CRC- Evans), Andrew Ball (J. Murphy & Sons), Adel Botros (Al-Qahtani Pipe Coating Industries), Francesco Ferrini (Techfem S.p.A.), Yasar Giregiz (Fernas Construction Co.), Leonardo Gravina (SICIM), Abdullah Al-Mahmud (PEAL), extended ex-officio: Iosif Panchak (J.S. Welding), Bruno Pomaré (Spiecapag), Bill Solomon (Vacuworx), Roger Spee (CRC-Evans), Meletis Tzaferis (Swiss Approval), Johan Van Wassenhove (Denys), and Tim Zboya (Bechtel Pipeline)

Nominations for the Committees and Projects

The 2021-2022 Board will run three committees and two projects, as follows:

HSE & CSR Committee

Chair: Bruno Pomaré

Leadership: Christophe Dugail, Levent Kafkasli, Wilko Koop, Robert Linder, Bobby Poteete, Ibrahim Zakhem

The HSE & CSR Steering Group meets three times a year and is comprised of ten HSE specialists from member companies. The role of the Steering Group is to implement the initiatives proposed by the HSE & CSR Committee Leadership.

Innovation Committee

Chair: Gerben Wansink

Leadership: Doug Bailey, Giacomo Bonfanti, Leonardo Gravina, Wilko Koop, Andrew Stuart, Virendra Varshney, Tim Zboya

Hydrogen Sub-Committee

Committee Lead: Andrew Ball

Leadership: Francesco Ferrini, Meletis Tzaferis

There are eight Steering Groups which meet twice a year either in Geneva or another city in Europe.

Board Directors are asked to propose specialists from their companies to participate in these Steering Groups. One example of the work undertaken by the Innovation Committee is updating version 5 of the 'Road to Success' app.

Membership Committee

Chair: Bill Solomon

Leadership: Robert Bell, Adel Botros, Ma Chunqing, Vladilen Ermolin, Yasar Giregiz, Najib Khoury, Abdullah Al-Mahmud, Iosif Panchak, John Tikkanen, Johan Van Wassenhove

Convention & Board Meeting Location Project

Project Lead: Roger Spee

The Project Lead's role is to propose destinations for Board Meetings and future Conventions. The Board Directors are then asked to vote on destinations.

Scholarship Project

Project Lead: Kelly Osborn

Scholarship America manages the scholarship applications and selection process which is then approved by the Project Lead.

New Faces

on the 2021-2022 IPLOCA Board

We warmly welcome the following directors, as a result of the 2021-2022 nominations and appointments.



Robert E. Bell, Jr., Director-at-Large

Robert is President and CEO of Price Gregory International, LLC. (a wholly owned subsidiary of Quanta Services, "PWR" on the NYSE), a recognised leader driving the operations of one of the largest pipeline construction and maintenance contractors in

the U.S.A. Robert graduated from Oklahoma University in Mechanical Engineering in 1979.

His post graduate career started in the field on several large diameter gas pipeline and compressor station projects in the mid south of the U.S.A. During the early 1980's, he worked for Williams Brothers Engineering Company and was assigned to a field engineering position in Prudhoe Bay, AK until 1983. In 1983, Robert took a job with H C Price Co. as a field engineer in construction projects based on the North Slope of AK, where he worked until 1991. H C Price moved him and his family to Saudi Arabia to pursue large pipeline projects as a joint venture with a Saudi owned construction business. In 1997, Robert moved back to the U.S.A. where he continued working for H C Price Co until their merger with Gregory & Cook in 2009. Currently he is Treasurer of the Pipeline Line Contractors Association (PLCA) and sits on the PLCA Labour Negotiations Committee as Co Chair and also sits as a contractor trustee on the Labourers' Union (LIUNA) Pension Fund.

Robert has been married for 34 years and has two sons, and a grandson. Robert enjoys playing golf and spending time with his grandson, as well as his great-nieces and nephews.



Christophe Dugail, Appointed Director for Europe Mediterranean

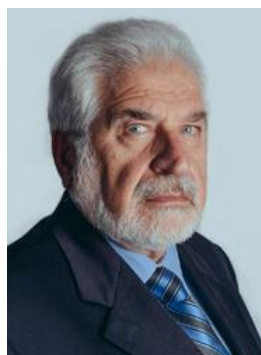
Christophe is Chief Executive at SPAC SAS (Colas Group) in Nanterre France. He started his career with Bouygues Offshore in Nigeria in 1993 as a maintenance superintendent for oil onshore and offshore production facilities.

From 1996 to 2011, he was mostly in France working in the

maintenance business unit of Bouygues Offshore, Saipem and Eiffage, as a project manager (5 years), then as a regional director (10 years) for maintenance and revamping projects in petrochemical plants, refinery and power plants. From 2005, Christophe worked 3 years for Saipem in Russia and in Kazakhstan as project director for the global maintenance of a major oil pipeline complex.

In 2011, he was nominated as the Nigerian branch director for Eiffage CM, and as the project director of a large EPCC offshore platform project, successfully completed in 2014. He moved in 2015 to another major Eiffage EPC project for the construction of a coal-fired power plant in New Caledonia.

Before joining SPAC he worked for close to 4 years at Smulders as project director for an offshore wind farm and subsequently for the EPCI project of an offshore electrical substation.



Francesco Ferrini, Director-at-Large

Francesco founded Techfem in 1984 and currently serves as President of the Board of Directors. After graduating in Mechanical Engineering, he obtained a Master's degree in fluid dynamics. Winning author of the Worthington European

award, Francesco was employed by Worthington in the R&D department. In 1974 he joined Snamprogetti where he led the pipeline R&D department in Fano, Italy, focusing on the transportation of multiphase solid-liquid and liquid gas mixtures. Later in 1981 he also became head of the pipeline process department.

In 1984 he co-founded Techfem. He led the company as CEO and Technical Director for 35 years and turned it into a leading contractor in the design and construction management of high-complexity pipeline transmission systems at a regional level. Francesco is still engaged in developing new technologies in the fields of upstream multiphase flow assurance, innovative pre-commissioning techniques and pipeline integrity management systems. In 1982 he set up the Multiphase Flows Section of ANIMP, the National Association of Industrial Plants which is part of the General Confederation of Italian Industry, which he chaired for more than 30 years.

Francesco is author of many papers about multiphase transportation presented at various international

conferences and published in the main technical journals. He is also author of patents related to the production of stable coal-water mixtures and the treatment of MTBE contaminated waste waters.



Andrew Stuart, Director Associate Members

Andy is currently Sales Director, Winn & Coales (Denso) Ltd., London, U.K. He started his career at Winn & Coales in South Africa in 1990 as a production manager in the factory. He then joined the sales team where he worked his way up to the position of Sales

Manager, Sub Saharan Africa setting up distributors for the company across Africa. During this time, he worked on many large pipeline projects in the region with many of the leading pipeline EPCs.

In 2015 he moved to the U.K. to take up the position of Export Sales Director for Europe, the Middle East, Southeast Asia and the Far East.

Andy is married and has two daughters; his hobbies are golf and fishing.



Meletis Tzaferis, Director-at-Large

Meletis graduated in Mechanical Engineering from the University of Rome in 1990, and obtained a Master's degree in Quality Management from Cranfield University, U.K. in 1996.

He is the Founder and Managing Director of the Hellenic Association for Quality SA (1993-2000), and subsequently Founder and Managing Director of TUV Rheinland Hellas SA /Inspection & Certification activities (2000-2004). He was a member of the Greek Government from 2004-2009, acting as State General Secretary for the Ministry of Health (2004-2006), Ministry of Development /Industry (2007-2009), and Ministry of Tourism Development (2009).

Since October 2009, Meletis has worked in the field of "oil & gas industrial inspections"; and from 2014 has been acting as Managing Director for Swiss Approval International Inspection and Certification Body S.A., based in Switzerland. Since 2007, he is the Founder and Executive Secretary of the

Greek Welding Institute, a non-profit organisation, which is a full member of the International Institute of Welding (IIW) and the European Welding Federation (EWF), and currently qualified as an Authorised National Body. He says it is likely he will get involved in politics again, in the next 10 years.

For the last 5 years he has been a medium distance runner, and in his words "this proves to be extremely creative and good for de-stressing"



Virendra Varshney, Director for East & Far East

Virendra is an engineering graduate from the Indian Institute of Science (IISc.), Bangalore (India), and has 38 years of experience in the field of oil & gas (crude oil, LPG, RLNG, CGD and CBM). He has a certification in Advanced Strategic Project

Management in collaboration with George Washington State University. He has worked in gas marketing, business development, strategic management, risk assessment & mitigation, EPC project management, gas management system, pipeline applications software, SCADA, software development, telecom and instrumentation.

Currently working as President of Kalpataru Power Transmission Limited, Mumbai and heading the pipeline division, he has previously worked in various public and private sector companies, i.e. ORG R&D Systems, Oil India Limited, GAIL India Ltd., Great Eastern Energy Corporation and Larsen & Toubro.

While he has worked across the globe, including U.S.A., Australia, Denmark, U.K., Sweden, Canada and various other Gulf and South East Asian countries, he was the pioneer for starting and monetising CBM through pipelines & CNG in India.

We also welcome the following directors back to the Board after a break and thank them for agreeing to continue to share their experience and knowledge:

- **Andrew Ball** as Director-at-Large
- **Yasar Giregiz** as Director-at-Large
- **Giacomo Bonfanti** as Director for Latin America
- **Roberto Castelli** as Director for Europe Mediterranean
- **Ma Chunqing** as Director for East & Far East
- **Najib Khoury** as Director for Middle East & Africa
- **Ibrahim Zakhem** as Director for Middle East & Africa

Membership Centre

IPLOCA Membership Fees

Invoices for 2022 membership fees were sent by email mid-November. The payment due date is Monday, 3 January 2022.



Please note that paper copies of invoices will only be sent by postal mail upon request. Membership certificates will be sent out following receipt of payment. If you have any questions, please contact IPLOCA's Accounting Manager, sebastien.goetschmann@iploca.com.

New Regular Member

as of 1 January 2022



The Dametto family took their first steps in pipeline projects in 1979 and **PBR Technology** has now been

in existence for three generations. The company started its first construction work in the oil & gas sector in Italy and later operated in other parts of Europe and beyond.

Initially the company was specialised in open-cut river crossings, but over the years, development, innovation and flexibility have enabled the company to now handle most activities within the sector. Given the challenges and constantly evolving changes in this field, PBR Technology aims at delivering solutions adapted to each specific project, for better performance and cost reduction.

PBR Technology

Via Risorgimento 18
31040 Gorgo al Monticano
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T +39 0422 208040 / 208077
info@pbrtechnology.com
www.pbrtechnology.com

New Associate Member

as of 1 January 2022



ALLU Finland OY is a family-owned company that designs, manufactures and sells products for processing, separating, sorting, mixing and crushing materials. Typical applications include soil and waste material recycling, processing of contaminated soil, and transforming waste to usable material.

As a market leader, ALLU brings over 35 years of experience in the industry, having invented the crusher and screening bucket. The company has its headquarters in Finland, and operates globally with over 100 local dealers across more than 30 countries.

ALLU Finland OY

Jokimaentie 1
16320 Pennala
Finland
T +358 3 882 140
info@allu.net
www.allu.net

New Corresponding Member



Established in Southwest France, at the crossroads between major European gas

flows, **Teréga** has exercised exceptional expertise for over 75 years in the development of gas transport and storage infrastructures. Today, it continues to develop innovative solutions to overcome major energy challenges faced by France and other European countries. A true accelerator of the energy transition, Teréga operates over 5,000 km of pipelines and 2 underground storage reservoirs representing 16% of the French gas transport grid and 26% of national storage capacity. In 2020, the company generated revenues of EUR 460 million and had more than 660 employees.

Teréga

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www.terega.fr

Member News

ALLU Benefits Energy Projects Worldwide

The ALLU Transformer Series (TS) of screening padding buckets with TS structure is an ideal addition to pipeline job sites around the world. The unique ALLU TS structure enables three different fragment sizes from the same ALLU unit, giving more flexibility at the site. Due to ALLU TS's self-cleaning design, the best possible capacity can be achieved, even with wet and sticky materials. ALLU TS's structure features a variety of blade thicknesses, which make the TS structure perfectly suited to the pipeline industry to screen, reuse and recycle excavated soil.



ALLU Transformer hydraulic screener padding attachments are designed for excavators, wheel loaders, skid steers, tractors, backhoe loaders, and telehandlers to screen, crush, pulverise, aerate, blend, mix, separate, feed, and load materials all in a one-step process. The benefits of using ALLU include no need for additional equipment at the job site; reduction of transport costs since excavated material can be re-used on-site; reduced CO₂ emissions; screening of all unwanted hard impurities away from the padding material; the end-product is always according to the desired and required fragment size and quality; no need for electricity at the site; a plug-and-play feature; and, high production pipe bedding and padding.

Caterpillar Measures Safety Leadership Traits that Can Change Everything

Employees make choices every day that impact the safety of themselves and others. The most powerful influence on those choices is the leader, who must inspire safe behaviour in employees through their consistent actions. After five years of research, Caterpillar statistically validated exactly what those actions are and how to measure them. To be an effective safety leader requires mastery of four



core domains: driving accountability, creating connectivity, demonstrating credible consciousness and building trust. The most effective leaders create a strong culture of accountability in which they either hold their employees accountable for their work or they create an environment in which others take accountability for their work. They develop meaningful connectivity by involving employees in creating solutions, keeping them informed and integrating safety into daily work. They demonstrate credible safety consciousness by applying knowledge of the safety aspects of the job with sound and consistent reasoning. They build trust amongst their team, so their employees believe the leader has their best interest at heart, showing they care and holding safety as an important value.

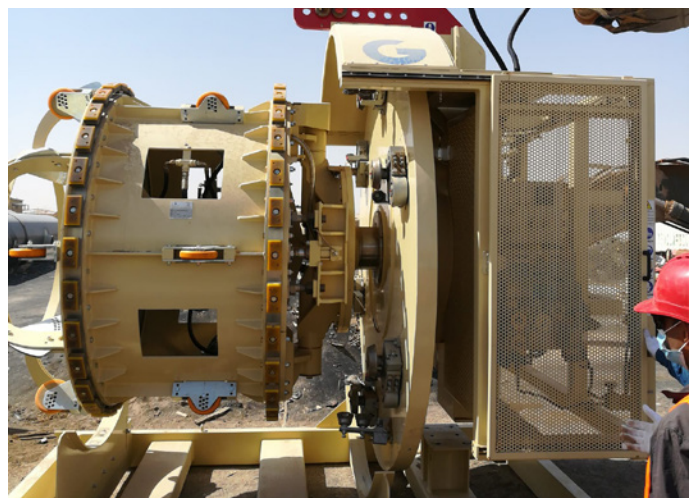
World-first by DENSO for Reliable Corrosion Protection

Reliable and permanent protection of pipe sections and weld seams are one of the main challenges in pipeline construction. A wide range of often time-consuming processes that differ for each application have previously been used. SEALID® All-in-1 Tape is the DENSO Group Germany's patented innovation for universal application. For the first time it provides unprecedented protection



against corrosion as well as mechanical loads in a single step – without additional primer and without the use of other devices. By fulfilling ISO and EN standards, SEALID® All-in-1 satisfies the increasingly stringent demands in pipeline construction. A single wrap is enough to comply with ISO 21809-3 at operating temperatures of up to +70°C. The requirements of EN 12068 and DIN 30672 for class C50 are also met with a single wrap. The new all-in-one solution is manufactured in a genuine multi-layer co-extrusion process. When wrapped in a spiral pattern the tape forms a completely closed protective hose with exceptional durability. Impermeable to water vapour, oxygen, soil bacteria and soil electrolytes, the protective hose achieves a minimised cathodic disbandment together with an outstanding peel and lap shear strength.

Goriziane's Pipe Facing Machine 60" to 88"



One of the biggest Pipe Facing Machines (PFMs) Goriziane E&C has ever made, PFM 60"-88" is now operating on a pipeline project in the Middle East. Goriziane has more than 30 years of experience in designing and upgrading PFMs, and it has delivered more than 500 units worldwide so far. Its PFMs can be used for the construction of oil & gas, and water pipelines. Goriziane E&C is able to design and manufacture custom-made machines such as the "double PFM" i.e., pipe-in-pipe PFMs or miter PFMs with mitered bevels up to 2°, where bending pipe is not possible.

Lincoln Electric Advances Root Welding Productivity for Pipeline Applications

With the release of the new Activ8X® Pipe™ portable wire feeder and STT® (Surface Tension Transfer) field advanced weld mode, Lincoln Electric has developed a rugged, field-ready GMAW (Gas Metal Arc Welding or MIG) solution designed specifically for maximising root welding productivity. Optimised for pipeline applications, this solution allows operators to take Lincoln Electric's



advanced welding technology typically found in shop environments right out to the pipeline spread. In return, welding operators can tap into the improved benefits of GMAW over traditional SMAW (Shielded Metal Arc Welding), including a 2.4x increase in root-pass productivity, improved sidewall fusion, and improved back-bead reinforcement. In addition to having optimised weld processes for steel and stainless steel applications - including STT Field, CV (Constant Voltage)-MIG, CV-FCAW (Flux Core Arc Welding), and Pulsed MIG - the Activ8X Pipe comes with the latest welding technology for a true operator-friendly solution. Starting with its straightforward user interface, operators can easily control the full welding process right at the feeder, including memory options that allow for easy storage and selection of saved modes between passes. Embedded CrossLinc® and CableView™ Technology allows for simple system set-up and use, eliminating the need for additional control cables or sense leads while providing full control of the welding process up to 200 ft. from the power source with no loss in arc stability.

PipeSak Chosen to Protect Coast GasLink Pipeline in Western Canada

The Coastal GasLink pipeline project is approximately 670 km (416 miles) of 1219 mm (48") O.D. pipe that will safely deliver natural gas across northern British Columbia to the LNG Canada facility in Kitimat, B.C., where it will be converted from gas to a liquified state (LNG) for export to global markets. The Coastal GasLink pipeline traverses the Rocky Mountains, some of the most challenging terrain in Western Canada. TC Energy chose PipePillo® engineered pipeline supports to support the pipeline from the rocky trench bottom, allowing sand padding to encompass the pipeline while maintaining an easy path for cathodic protection. PipePillo® are environmentally inert and offer 90° of permanent pipeline support, an important consideration in this challenging and environmentally sensitive terrain. To date, over 10,000 PipePillo® structured pipeline pillows



costly rework or even disposal of the pipe. Dhatec is one of the few solutions on the market that could address this issue. Dhatec FPL 10.75 Flared End Pipe Type Cable was recommended. The end caps needed to be strapped to the end of the pipe and an additional cover was proposed to hold it in place. A thick rope was then wrapped around the strap to protect the flare ends from any further damage. A Dura-Bond site visit, after transportation, proved the end caps stayed in place and the coated pipe was successfully transported with no damage to the coating or flared ends.

Techfem Chosen for FEED of World-first Offshore Hydrogen Pipeline



A Techfem-led joint venture has been awarded a landmark contract to carry out engineering studies on what will be the world's first offshore pipeline designed to carry green hydrogen between two countries. The USD 440 million, 159 km pipeline was originally designed to carry only natural gas between the Gela industrial complex in southern Sicily and Malta. However, Malta's state-owned Interconnect Malta, the pipeline proponent, now wants the link to be able to transport 100% green hydrogen, which the Maltese government plans to use initially for power generation. Techfem will focus on upgrading the specifications of the Sicily-Malta line so it can handle 100% natural gas when it comes online and, over time, can transport increasing volumes of green hydrogen until that feedstock is all it carries. The FEED work is set to be finished next year and part of the scope is to establish the cost and feasibility of green hydrogen production in Sicily and hydrogen storage on the island. Hydrogen could be sourced from wind, solar, and a mix of both, while there are plans to use a battery system to manage the intermittency of wind and solar power. Hydrogen storage studies will focus on using existing salt caverns underground or what are known as liquid organic hydrogen carriers - fluids containing hydrogen that could be transported using existing infrastructure - provided these are proven on a commercial scale.

(SPP48) have been installed. PipeSak® Geotextile Pipeline Weights (GPW) have also been specified to provide buoyancy control. The newly designed QuickFill PipeSak® weight sits flush with the top of the pipe, reducing the need for extra trench depth to accommodate weighting. The low centre of gravity allows PipeSak weights to be installed on a floating pipe, eliminating the need to pump water out of the trench. In addition to reducing installation costs, all PipeSak® products are engineered with a minimum 4 times safety factor, making it the weight of choice for challenging projects. To date, over 3000 PipeSak® Geotextile Pipeline Weights (QF48) have been installed on Coastal GasLink.

Seal for Life's Dhatec Product Deemed Successful Solution for DuraBond Industries' Challenge

DuraBond Industries recently partnered with Seal For Life's Dhatec product personnel to come up with a solution for protecting the flared ends on their 20" pipe. End caps are used on pipelines to prevent damage to the ends of pipe and, if the pipe is coated, to protect coatings around the pin ends to prevent damage during transportation and handling. The cost of a non-standard bevel is significantly higher than that of a standard bevel, and not using the right protective solution can lead to



2021 IPLOCA Awards

The IPLOCA awards are intended to reward companies that are in the lead in their search for excellence.

The winners and runners-up for three awards were announced during the HSE & CSR Workshop and the Fall Novel Construction Session held in Athens in October. The trophies will be presented at the 54th Annual Convention to be held in Prague in September 2022. The list of submissions received and further information on the entries is available on our website at: www.iploca.com/awards.

The 2021 IPLOCA Health and Safety Award sponsored by TC Energy

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

The Adjudication Committee nominated **SICIM** as the winner of this year's award, for its "Safe Choker Belt".



The reasons for this nomination were that it successfully addresses a specific and recognised hazard, it shows management commitment at all stages and it comes across as a simple, creative and cost-efficient solution. The award was attributed for an innovation in the design of the Choker Belt that made it possible to reduce the risk of hand injuries during its use. The Choker Belt is a special lifting gear designed to lift single pipe, widely used in different applications, and offer optimum performance in pipe handling for bending and pipe alignment for welding. After analysing some incidents that occurred using the Choker Belt in the past, additional protection gears and guards were engineered and installed to eliminate the risk of hand shearing, crushing or entrapment. In addition to this,

extra handles and lower wire cables' removable handles were fitted to increase safe handling and installation. The newly designed Choker Belt was successfully tested on a pilot project and then its full roll out to all the company's operations was implemented. "Finally, we can really say that we used our brain to save our hands!"

The runners-up were:

Tekfen Construction and Installation Co. Inc. for its risk-free equipment operation experience, using virtual reality (VR) technology. Another benefit of this VR application is that it enables costs and carbon emissions to be reduced, since no on-site diesel driven equipment is needed during trainings and assessments.

Max Streicher GmbH for its fully electrical horizontal drill rig, resulting in eliminating unsafe, noisy workplaces. This technology was also the winner of the New Technologies Award – see page 16 for details. In terms of health and impact on the environment, it has a safer and more user-friendly operating concept than older technologies, with an integrated anti-collision system (automatic stop) and the possibility of moving, manoeuvring and erecting the HDD80-E using a remote control. The special crane with a magnet that is integrated into the HDD80-E means that manual loading of the drilling rig is no longer necessary. Other advantages include the reduction of oil and fuel requirements, reduced operating costs, service and maintenance, a power supply via the public power grid or alternative energy sources, and reduced CO₂ emissions.

The 2021 IPLOCA Corporate Social Responsibility Award sponsored by TotalEnergies

The IPLOCA CSR Award is presented every second year in recognition of an exemplary success in voluntarily improving the quality of life of the local community and society at large.

The Adjudication Committee confirmed **Precision Pipeline, LLC** as the winner of this award for its "Human Trafficking Awareness Programme", because it is a very courageous initiative, involving a worldwide, well-known crime and it includes preventive actions. Human trafficking, or modern-day slavery, is when people are illegally bought and sold for forced labour or commercial sex. It is the second largest criminal industry in the world today, second only to the drug trade, and it is the fastest growing. Traffickers have realised that, unlike drugs that can be sold only once, humans can be sold and resold, again and again.



Precision Pipeline, LLC (PPL) recognised how they are uniquely positioned to help stop this crime. "With a predominately male workforce housed in locations away from home, friends and family for long periods of time, the energy industry is a target for human traffickers. Because of this, we implemented a training

programme that raises awareness and makes us part of the solution to help stop this crime," says Rachel Johnson, Public Relations Manager for PPL. Created with the help of anti-human trafficking organisations and experts, PPL's workforce training programme is delivered to all areas of the organisation so both field and home office employees can recognise the signs of human trafficking and report the crime to local law enforcement via the National Human Trafficking Hotline in the U.S.A. (+1 888 3737 888). Since beginning the programme in 2019, more than 6,500 individuals have been trained across the country. "We are honoured to be the winner of IPLOCA's 2021 Corporate Social Responsibility Award," says Johnson. "Recognising human trafficking has become part of our culture and this award gives us another opportunity to spread awareness, engage and influence others to take a stand against such activities."



The 2021 IPLOCA New Technologies Award
sponsored by BP

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

The Adjudication Committee decided to present the award to **Max Streicher GmbH** for its fully electrical horizontal drill rig, because it combines proven technology with a high degree of sustainability, efficiency and an intuitive, modern operating concept. Streicher has completely re-designed the previous diesel-hydraulic rigs with the entire drive system of the HDD80-E being fully electric. The result is a rig that builds on previous practical experience with HDD rigs and, at the same time, is trend-setting in terms of electrical drive, structure, quality and safety performance. The fully electric drive system carries essential advantages with regards to innovative technology, for example a fully electrically operated system for the main functions, safer and more user-friendly, energy storage and recuperation, compensation of load peaks by retrieving stored energy,



and it is "future-proof" as it is prepared for further digitisation and a variety of energy sources.

One runner-up was selected:

SICIM S.p.A. for its Airborne and Self-assembly Excavator.

The company gives the context for this technological development: "After being awarded the contract for the operation and maintenance project of the Camisea Gas Pipeline System in Peru, it became evident that the key factor was the timely fronting of emergency conditions in remote areas, as this is one of the most remote and challenging pipelines in the world reaching an altitude of 4500 m. Immediate mobilisation of resources required for any intervention, very often in areas completely inaccessible by land, had to be done by helicopter." A 13-ton excavator was rearranged into four element components not heavier than 3,9 tons that, after airborne transport, can be reassembled to the original configuration without the use of any auxiliary equipment. A team of trained personnel is able to only use common hand tools and specific devices already attached to the excavator. The assembly time is less than 2 hours and 45 minutes, and disassembly time less than 2 hours and 30 minutes, with no additional equipment needed. "We really make it possible to work where it is impossible to go!"

Submissions for 2022

Thank you to all those who participated in the 2021 IPLOCA awards.

We encourage all members to prepare and submit entries for 2022, which, in addition to the IPLOCA Health & Safety Award sponsored by TC Energy, will include the IPLOCA Environmental Award sponsored by Shell, and the IPLOCA Excellence in Project Execution Award. Submissions are required by May 2022 and further information will be available on www.iploca.com.

Health, Safety, the Environment & CSR



2021 HSE & CSR Workshop

The IPLOCA HSE & CSR Workshop took place in Athens, Greece on 26 October, in conjunction with the Novel Construction Fall Session on 27 and 28 October. We would like to thank the delegates from 30 different companies for their active participation and collaboration during the productive discussions on new advances in safety on the construction site.

Topics for the full day programme included “Next Generation Safety Measurement”, “3-Second Safety: An Energy-based Hazard ID Program” and “Fit For Duty: Fatigue Management”.

Special thanks go to the speakers (in order of appearance): Brad MacLean, Wolfcreek Group; Dr. Matt Hallowell, Construction Safety Research Alliance (CSRA); Mitch Wade, U.S. Pipeline, Inc.; Perry Redman, Caterpillar Global Pipeline and Mitch Cowart, Caterpillar Mining Solutions.

During the seminar, participants had the opportunity to share their safety leadership practices and experiences. They also further reinforced their safety leadership capabilities and commitments to prevent incidents & injuries and learned how to manage the risk of fatigue at multiple levels of their organisations.

During the workshop in the afternoon, the face-to-face and virtual attendees separated into four breakout groups to dig deeper into the science and data of managing the risk from a fatigued workforce. The teams concentrated on learning and sharing best practices related to:

1. Managing the Clock

How does our industry help or hinder our employees' opportunity to have enough sleep to maintain alertness?

HSE Shared Experiences Platform

The Shared Experiences Platform on the IPLOCA website awaits new and pertinent contributions from our member companies.

Thanks go to SICIM for their recent, valuable input. Take a look at www.iploca.com/hseplatform to upload your company's experiences and to view all the documents sorted into various categories.

Remember that as a collaborative tool, contributions from IPLOCA Members are essential.

We encourage more companies to take advantage of this initiative and to share their experiences as lessons learned or safety alerts, as well as including best practice environmental incidents. By sharing, you are helping others to prevent incidents. Together we can reach the targets set by the HSE & CSR Committee! For further information, write to sebastien.goetschmann@iploca.com.

2. Managing People

How do we know if our employees are using the opportunity to have enough sleep?

3. Managing Performance

How are cultural stigmas around fatigue impacting our company's performance?

4. Managing Processes

How can fatigue management be integrated into our current safety management systems?

The breakout groups included a broad cross-section of IPLOCA Regular and Associate Members as well as subject matter experts (SMEs) from Caterpillar on the topic of Fatigue Risk Management. The group moderators challenged the teams to discuss best practices and to engage the SMEs to dig deeper into local and regional risks and opportunities to manage the risks of fatigue.

Ultimately, the workshop emphasised the importance of understanding and determining our ability, and our workforce's ability, to become “fit for duty”.

Nearly 100 ideas were generated during the afternoon's workshop and were narrowed down to the following 11 issues listed below (no particular order):

- No metrics are available for employee fatigue / team sleep.

- No clear definition of fatigue exists.
- Construction and crew work schedules vary and may be uncontrollable.
- Change management / training is needed to understand the risk of a fatigued workforce.
- Employee recognition for desired behaviour is needed.
- Operating company/contractor work schedule alignment is needed as divergent demands risks workforce overload.
- Crews require workload balance management.
- The impact to a company's financial performance due to fatigue is unknown.
- The cultural stigma of fatigue needs to change.
- Employee training/responsibility awareness is needed.
- Fatigue risk management should be part of safety management systems.

The groups then identified high level, draft ideas for possible short-, medium- and long-term strategic actions to reduce the risk of a fatigued workforce within multiple levels of the organisation. The top eight action items are

summarised below, in no particular order:

- Engage employees in creating fatigue management processes/programmes.
- Review employee benefits.
- Create metrics on team member rest and performance.
- Culture change is needed.
- Work schedule alignment needed between contractors and operating companies.
- Study impact of fatigued employee performance on project / business performance.
- Include fatigue risk management plans in Safety Management System / Safety KPIs.
- Launch fatigue risk management best practices using the outcome of this HSE Fatigue Risk Management Workshop.

For further details please refer to the IPLOCA website: www.iploca.com/event/2021-hse-csr-workshop.

More work is underway to better develop these issues and action descriptions and will be shared with the IPLOCA membership in upcoming materials.

Innovation

Novel Construction Fall Session

The Fall Novel Construction Meeting was held at the Crowne Plaza Athens - City Centre hotel in Greece on Wednesday, 27 and Thursday, 28 October.

More than 70 delegates from across the world participated in the event and those attendees who were unable to travel were able to take part online via video conference. The week's programme also included the HSE Workshop "Managing Safety Challenges of the Future", the IPLOCA Annual General Meeting and the Board of Directors Meeting. On Wednesday morning, presentations were made by IPLOCA members and guest speakers on their innovative developments and initiatives with the aim of improving pipeline design and construction.

The following subjects were presented:

- **Euro Airship, a Sustainable Solution for the Oil & Gas Industry***, Marie-Christine Bilbow, Euro Airship
- Challenges, Innovations and Lessons Learned from Lower Fars Heavy Oil Pipeline Project – Kuwait, Issa Maroun, CCC
- **Use of Satellite Imagery for Safer Pipeline Installation & Operations***, Guillaume Mouscadet & Oscar Friedel, Kayrros



- **Future-Oriented Equipment Concept using the Example of a Welding Tractor**, Boris Böhm, Max Streicher GmbH
- **Unlocking Value in Pipeline Data – Pipeline Digital Twins***, James Wardrop, PipelineSentry
- **Inspection Test Plan (ITP) for a Pipeline Construction and Quality Project Management**, Alexandros Choremiotis, Swiss Approval
- **Impacts of the COVID-19 Pandemic on Contracting Operations**, Zahi Ghantous, CCC

* Articles on these initiatives follow this report.

Copies of all the presentations are available at www.iploca.com/event/iploca-novel-construction-session.

On Wednesday afternoon and Thursday morning, group work sessions and presentations took place to review the existing and the new chapters that need to be completed, as well as additional subjects to be developed for “The Road to Success” app. We would like to thank all of those who participated in the Fall Novel Construction Meeting.

If you would like to take part in the Novel Construction Initiative, please contact the appropriate group leader or gregoire.demontmollin@iploca.com.

We look forward to our next session which is planned for 27-28 April 2022 in Paris, France. The hotel is yet to be defined.

Working Groups	Leader (Company)	Email
Health & Safety	Alain Gauthiez (Spiecapag)	alain.gauthiez@spiecapag.com
Earthworks & Crossings	Diana Rennkamp (Herrenknecht)	rennkamp.diana@herrenknecht.de
Steep Slopes Installation	Matt Granger (Ledcor)	matt.granger@ledcor.com
New Trends & Innovation	Mustafa Abusalah (C.C.C.)	mabusalah@ccc.net
Coatings	Somaieh Salehpour (Seal for Life)	somaieh.salehpour@sealforlife.com
Environment	Katrina Cooper (RSK)	kcooper@rsk.co.uk
Logistics	Jean-Baptiste Rousseau (Spiecapag)	jean-baptiste.rousseau@spiecapag.com
Hydrogen	Andrew Ball (J. Murphy & Sons Ltd.)	andrewball@murphygroup.co.uk

Euro Airship

A Sustainable Solution for the Oil & Gas Industry

Marie-Christine Bilbow, CEO, Euro Airship

The world is moving towards a cleaner and greener energy future. To achieve this objective, Euro Airship proposes a new and innovative way to reduce your industry’s environmental footprint; decreasing greenhouse gas emission by 90%, fuel consumption by 80% and limiting the impact of pipeline operations on land, water, flora, and fauna.

Who is Euro Airship?

Euro Airship is a French company developing rigid airships. We have a new approach to air transport, providing a complete logistic supply chain solution, as well as surveillance, tourism, and disaster relief. By using rigid airships,

pipeline construction can be proactive and adapt to the global environmental challenges that you are facing.

What is the solution Euro Airship provides?

In the exploration phase, we can fly over very long routes, identify potential pipeline routing, environmental and human risks, and transport personnel and equipment at a much lower cost than existing solutions with no impact on the environment. In the transportation, installation, and connection phase, we provide a point-to-point delivery without disassembling oversized equipment. We deliver by air the pipe elements to the trench and weld them immediately on-site. We can load and unload up to 400 tonnes in stable



hovering flight with a crane installed for each manipulation. We provide logistical support for personnel, transporting and easily moving living quarters. We operate in all-weather conditions, 24 hours a day, 7 days a week, all year round. The cargo hold is interchangeable allowing for alternate usage: a single solution for multiple requirements. In the operational phase and surveillance of the pipeline, onshore and offshore infrastructure is vulnerable to damage, either from natural disasters or human causes. We can detect suspicious activity, avert failure, and repair rapidly.

Laying pipelines in difficult and hostile environments is costly, time consuming and hazardous. We propose an eco-friendly, cost-efficient, and safe air transport solution. For example, a huge number of ground vehicles is required for deforestation; laying bare large amounts of land to dig trenches and manage space on the side for the supply of the pipeline elements. Using rigid airships, you can avoid the initial infrastructure budget and long negotiation for the administrative authorisations. Less handling means less accidents, errors and more safety and security.

Euro Airship proposes a sustainable solution for airborne pipe laying from the exploration phase to the transportation, installation and finally the surveillance of the pipeline.

This mode of transportation has the following advantages:

- Point to point transportation with vertical take-off and landing, no specific infrastructure required
- Cost-efficient by reducing costs of transport, installation, infrastructure, and environmental rehabilitation
- Environmentally friendly with fuel consumption reduced by 80% and GHG emissions reduced 10-fold and silent
- Multi-usage airship, transporting workforce and equipment in all weather
- Accessibility to remote and rugged areas, landing and take-off from all surfaces (water, sand, snow etc.)

With more frequent and more extreme weather events, there is no question that the climate crisis is here, and the impacts are felt by humans and nature alike. Every day we see more individuals, organisations, businesses, and governments responding to this global crisis.

Euro Airship is an innovative and sustainable mobility solution, contributing to a cleaner planet and opening new horizons for an ecological transport future. Share our vision for a better world. Euro Airship proposes concrete steps to mitigate the worst impacts of climate change. By exploring the past, join us in creating a better transport future...

Use of Geospatial Data for Safer Pipeline Installation & Operations

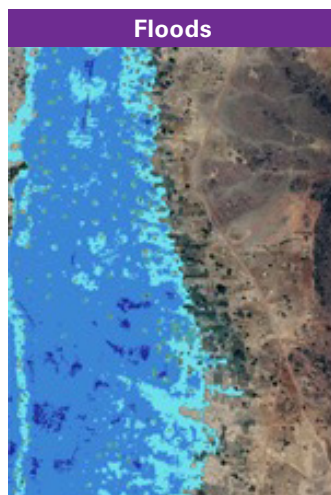
Guillaume Mouscadet, Managing Director, Sales & Business Development, Kayrros

Kayrros is a leading advanced data analytics company that helps traders, investors, operators and governments make better decisions. Kayrros extracts value from alternative and market data to deliver unique solutions and product offerings, while providing insight into climate change and the energy transition.

Kayrros has a strong science and technology team of 150 experts that includes more than 100 MSc and 20 PhDs, extending into partnerships with world-class research institutions - such as the European Space Agency (ESA) and Laboratoire des Sciences du Climat et de l'Environnement (LSCE) - to ensure that it remains at the forefront of the latest



Source: Newswire



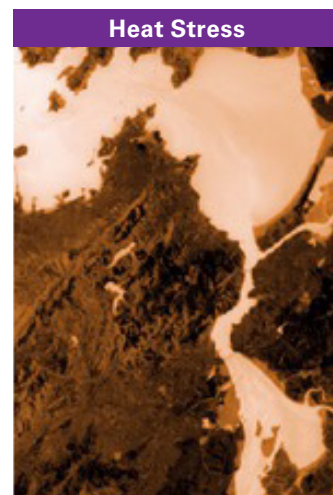
Floods



Wildfires



Landslides



Heat Stress

Source: Kayrros, contains Copernicus modified data; GeoEye

scientific developments worldwide. The team benefits from diverse backgrounds including data science, mathematics and engineering, and works from offices in Paris, Houston, London, New York, Bangalore and Singapore.

At Kayrros, we monitor all physical assets worldwide with satellites and other technologies for a greener and better future. Our mission is to provide investors, energy and industrial actors with the data and technology tools they need to optimise operations, tackle the climate challenge, navigate the energy transition and stay on top of fast-changing markets. More specifically, for right of way monitoring applications, Kayrros analyses geospatial data to lower the risks associated with pipeline construction,

and delivers unique data to optimise construction and operational processes.

In addition to our other technological applications, today at Kayrros, we monitor construction operations to enable competitive intelligence; analyse environmental and climate-related risks (floods, wildfires, landslides, heat stress) to perfect infrastructure design and lower construction costs; and monitor human-related risks around pipelines to lower operational costs and improve safety measures.

Kayrros also provides unique geospatial data to optimise the construction of pipelines and their operational processes and identifies areas most exposed to natural hazards.

Unlocking Value in Pipeline Data

Pipeline Digital Twins

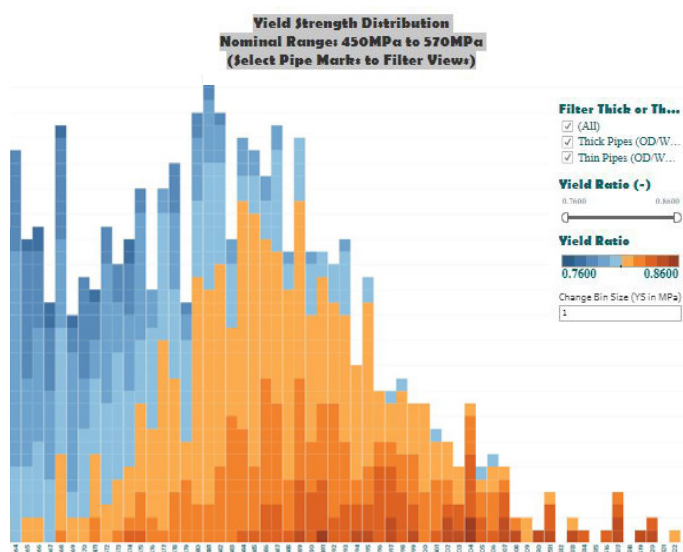
James Wardrop, Founder & Director, PipelineSentry

What are pipelines? They are assets that take fluid or gas from one place to another. In transporting the product, the value of the product is increased. The ability to access the product and have it where it is needed, inherently increases its value.

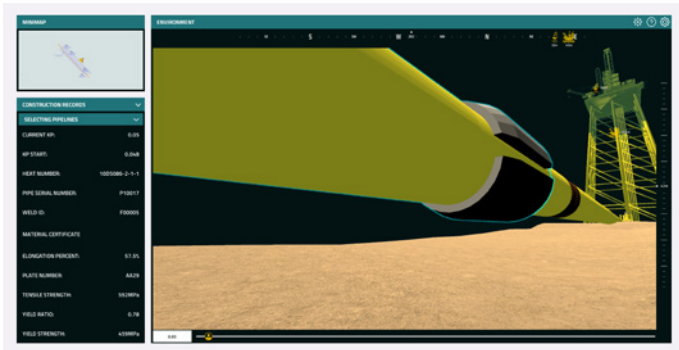
A digital twin is like a pipeline, but it's not fluid or gas being transported, it is data. By digitising, linking, and providing context to data, a digital twin increases the value of this data.

Digitising Data

To truly digitise your data, you need to understand what data is valuable at each stage of a pipeline life cycle. Once you understand this, you need to take it out of excel files, pdf documents, or other less agile formats and place it in a structured database as a variable.



Digitising your data can be as straightforward as reviewing automatically collected data from a pdf document.



Providing Context

With data digitised and linked we can now provide context to the data. This allows us to distil large data sets down into actionable items. It allows us to see the big picture and to zoom down to a detailed view rapidly. For example, for construction validation, by understanding the acceptance criteria for pipe joints, welds, coatings, etc., and mapping these out, we can confirm acceptance rapidly and detect any anomalies automatically. With pipeline integrity in mind, we can pair together defect details with pipe joint data to automated integrity assessments. Utilising satellites, we can detect anomalies, changes in ground conditions, and threats in close to real time in a scalable fashion.

Each of these steps adds value to the data a successful digital twin needs to reward the data provider for getting on board the system. By creating value for suppliers, contractors, subcontractors, and the pipeline operator, we can grow the pie for everyone and make it a sustainable, achievable change for the industry.



Applications for the 2022 IPLOCA Scholarships are now being accepted. Don't delay, the submission deadline is 25 February!

Spread the word within your companies – we encourage you to make use of the electronic versions of the flyers which are available on our website in seven different languages. You will also find information on the eligibility requirements on the same page: www.iploca.com/scholarship.

Applications should be made online at learnmore.scholarsapply.org/iploca/. Please note that all the documentation needs to be provided in English. Scholarship Management Services, a division of Scholarship America, is administering the programme on behalf of IPLOCA.

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

Since the scholarship programme's inception in 2016, IPLOCA has offered 20 scholarships annually, valuing USD 4,500 each. Company-sponsored scholarships are also possible. Should you be interested in promoting education by sponsoring future scholarships or giving a donation, please contact Kelly Osborn at kosborn@uspipeline.com.

For more information on the IPLOCA Scholarship Programme, visit www.iploca.com/scholarship

Regional Meetings

Regional Meetings are usually organised biennially in each IPLOCA region.

The regional approach allows participants to engage at the local level and discuss common issues and concerns, fulfilling the following purposes:

- Give members a chance to express their ideas/needs for IPLOCA
- Meet and discuss common challenges
- Provide an update on IPLOCA's objectives
- Review new technologies
- Capitalise on success stories
- Review and discuss issues affecting the industry

After a break due to travel restrictions linked to the global pandemic, we are pleased to announce the first IPLOCA Regional Meeting in 2022 will take place in the Europe Eastern region, on **16 March in Baku, Azerbaijan**. Other meetings are being planned for the Europe Central and Europe Mediterranean regions, in Germany and Bordeaux, France, respectively, but the dates are not yet finalised.

For further information on these meetings as they are confirmed, please visit www.iploca.com/events/regionalmeetings.

In Memory of

Eberhard (Ebbo) Hans Jacob Laenge



It is with deep sadness that we inform you of the passing of Ebbo Laenge, IPLOCA Director, Latin America, on 25 September, following a tragic hang-gliding accident.

Born in the Swabian village of Laichlingen near Ulm, Germany in March 1958, Ebbo became a certified toolmaker in 1978.

These were his roots, no matter how far he 'stretched himself' around the globe. He set forth on his adventure of making the world a better place when he moved to Africa to work with Oxfam and Cap Anamur, serving as Rupert Neudeck's* Assistant, in 1975. He continued with a mechanical engineering degree in 1980 and his national service as a paramedic in 1985.

In 1986, Preussag Pipeline Construction hired him to manage gas grind development in northern Europe. Soon he was deployed to Brazil to oversee Preussag do Brasil, which he developed into the Companhia de Dutos (Conduto). The latter became one of the leading pipeline and plant construction companies in Brazil, Peru, Chile, and Ecuador.

In 2005 he and his partners took over Conduto and its subsidiaries and grew the business substantially to today's size. This was the start of numerous successful ventures that extended beyond South America. Ebbo was an entrepreneur by nature, in the best meaning of the word; he never chose to become one, he just was.

Ebbo has left behind, in deep sorrow, a family that he loved deeply and in which he always found joy and comfort. Mourners may find solace in the fact that his fine sons Jassin and Jan will follow in Ebbo's footsteps.

Ebbo, we will miss you, your managerial skills, not to mention your integrity as an entrepreneur and human being. I have lost a professional companion who was as upright and reliable as he was courageous.

Walter Zimmermann

** R. Neudeck was a human rights activist who won numerous awards, notably for his role in assisting thousands of refugees from Vietnam in the late 1970s.*

Upcoming Events

2022

N.B. As the situation evolves concerning the sanitary crisis in each country, we recommend you check individual websites to ensure an event is taking place.

DCA 61st Annual Convention

17-22 February – Phoenix, Arizona, U.S.A.
www.dcaweb.org

74th Annual PLCA Convention

22-26 February – Phoenix, Arizona, U.S.A.
www.plca.org

Pipeline Technology Conference

7-10 March – Berlin, Germany (plus online)
www.pipeline-conference.com

PIG – The 64th Pipeline Industries Guild Annual Dinner

8 March – London, U.K.
www.pipeguild.com

IPLOCA Europe Eastern Regional Meeting

16 March – Baku, Azerbaijan
www.iploca.com/event/regional-meeting-baku-azerbaijan



Hannover Messe

25-29 April – Hannover, Germany
www.hannovermesse.de

IPLOCA Novel Construction Spring Session

27-28 April – Paris, France
www.iploca.com/events/novel-construction-sessions



68th Annual PLCAC Convention

2-6 May – Maui, Hawaii, U.S.A.
pipeline.ca

Offshore Technology Conference

2-5 May – Houston, TX, U.S.A.
2022.otcnet.org

Pipeline & Gas Expo

8-10 June – Piacenza, Italy
www.pipeline-gasexpo.it/en

IPLOCA 54th Annual Convention

19-23 September – Prague, Czech Republic
www.iploca.com/events/annual-convention





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

Peter Schoonenberg
Publisher IPLOCA Yearbook
 Pedemex B.V.

IPLOCA Yearbook 2021-2022

At the end of November the 55th edition of the IPLOCA Yearbook was distributed worldwide to the desks and in the field offices of pipeline companies.

The IPLOCA Yearbook is available in hardcopy and online at www.iploca.com/yearbook. Do not hesitate to send us the addresses of the persons to whom you wish us to send a copy of the IPLOCA Yearbook.

Important IPLOCA Dates

Member News for IPLOCA March Newsletter

31 January – Deadline for submissions
newsletter@iploca.com

Member News for IPLOCA June Newsletter

29 April – Deadline for submissions
newsletter@iploca.com

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Save the dates!
IPLOCA 54th Annual Convention
“Pipelines Powering a Sustainable Future”

Hilton Prague hotel, Czech Republic
19 to 23 September, 2022
See you next year!

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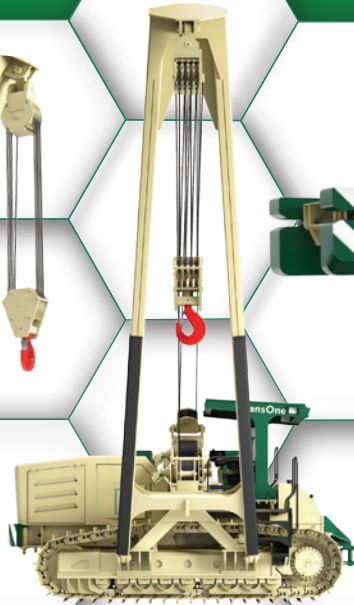
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