



THE IPLOCA NEWSLETTER

SEPTEMBER 2008



Athens Convention update page 10
details for the upcoming convention



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The following is the new IPLOCA Mission for 2008 and beyond:

To provide value to members through a forum for sharing ideas, engaging the industry and its stakeholders, facilitating business opportunities and promoting the highest standards in the pipeline industry.

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IPLOCA Yearbook

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Letter from the President

The Athens Convention is just around the corner. We are at capacity and anticipate a tremendous week in this timeless, classic location.

Our sponsors have outdone themselves this year. We have received sponsorship for all available opportunities, with the exception of one – The Associate Members Luncheon – for which we are extremely grateful, recognising that the success of our events is so heavily dependent upon continued member support. Should one more sponsor wish to step forward to cover this last opportunity, we will ensure appropriate visibility at the Convention.

In Athens we will also announce the location for 2009 – the popularity of IPLOCA Conventions being such that we are already receiving enquiries.

Many readers of this Newsletter received an email from me last month announcing the appointment of our new Executive Secretary, Juan Arzuaga. We will be introducing Juan and his wife Alejandra in Athens to those who have not yet had the opportunity to meet them. Juan previously worked for Techint for many years in Mexico and South America, and most recently in Canada. He is, in fact, well known to IPLOCA, having served as a director for the Americas from 2005 to 2007. We are delighted that he has agreed to join us in Geneva. He can be reached at juan.arzuaga@iploca.com.

Luc Henriod, our Executive Secretary since 2004, established the Geneva office and has worked tirelessly for the benefit of our membership and the industry at large since that time. Luc will continue to assist in the transition period through the end of the year, and will continue to be involved in the Novel Construction Initiative.

Athens attendees will have an opportunity to learn more about Novel Construction and the progress achieved by the six work groups. A 90 minute meeting is scheduled for Thursday afternoon (2 October) beginning at 15:00, with the Steering Group leaders on hand to lead the discussions.

Finally, as your outgoing president, I thank you for the opportunity to serve IPLOCA this year. It has been a pleasure and an honour and I look forward to continued involvement in IPLOCA initiatives in the years to come.

A handwritten signature in blue ink, appearing to read 'John Reed', written in a cursive style.

John Reed

jreed@hmc-heerema.com

NEWS FROM GENEVA

During August we hosted meetings in Geneva of the Health & Safety and Environment Award committees as we put in place the final details for the Athens Convention.

As mentioned in the Letter from the President, at press time we await the September arrival in Geneva of Juan Arzuaga, IPLOCA's new Executive Secretary. He will be introduced to the membership in Athens and we look forward to welcoming him to the Geneva office.

Changing Skyline

Those who have previously visited us in Geneva may find the landmarks a little different now, as the new building in our office complex begins to take shape. The previously clear view of the Jura mountains from the entrance to the Geneva office building is now obscured, and the supermarket Carrefour has become a Coop.



IPLOCA ENVIRONMENTAL AWARD

sponsored by Shell

The Environmental Award will be presented at the Open General Meeting in Athens to an IPLOCA Member or Associate Member who has made a significant contribution in reducing the impact of pipeline construction on the environment.

Many excellent submissions were received, and one winner and three runners-up will be highlighted on Friday, 3 October. The Award consists of an inscribed trophy and a cheque for EUR 1,000 to be donated to an environment project of the winner's choice.

Submissions under the following categories were considered:

- Reduction of greenhouse gases
- Impact assessment and public consultation
- Energy use and efficiency
- Waste management and reduction
- Spill response preparedness
- Water usage and preservation
- Soil and ground restoration
- Archeology
- Flora and fauna



IPLOCA HEALTH & SAFETY AWARD

sponsored by Chevron

Chevron has kindly agreed to sponsor the annual IPLOCA Health & Safety Award which will be presented on Thursday, 2 October in Athens.

In order to be eligible for the award participants first submitted their 2007 Health and Safety Statistics, although the award is based on considerably more than the received statistics and recognises a proactive role taken in the prevention of accidents.

The winning company receives a trophy and three runners up receive a framed certificate as proof of their commitment to safety.

Criteria for the award include:

- an outstanding safety performance resulting from pro-active programmes and/or processes
- a unique innovation or initiative to avoid accidents
- a new and well-defined system, procedure or practice enhancing safety
- implementation of lessons learned.

WELCOME NEWEST MEMBERS

Members



Kalpataru Power Transmission Ltd

Kalpataru Power Transmission Limited (Infrastructure Division) is part of the Kalpataru Group. The Group has been in existence for the last 40 years and the current turnover is USD 1 billion. The Infrastructure Division started its onshore cross-country pipeline construction activities in 2004 and has already completed the construction of approximately 1100 km of oil and gas pipelines along with Terminals and Station works. A few of the projects have been completed on an EPC basis.

The current capability of Kalpataru Infrastructure Division is to handle four working spreads simultaneously, supported by specialized manpower and equipment for the execution of projects up to 48" diameter cross-country pipelines. Kalpataru has experience in laying oil and gas pipelines in multi-terrain types such as rocky, hilly, swampy, desert, ravines and gorges. More information is at www.kalpatarupower.com

Associate Members



Petro IT Ltd

Petro IT is a specialized IT Solutions and Services provider focused exclusively to the needs of the Energy industry. The company has derived its rich experience in the fields and trenches of construction projects of international repute. Innovatively using the advances in Information Technology, Petro IT's solutions aim to streamline and build efficiencies into the operations of major Oil and Gas facility owners, operators and contractors.

Petro IT is an ISO certified organization, with processes streamlined to deliver efficiently and accurately. Its Microsoft certification ensures compliance with a majority of systems in use today. Its core solutions revolve around data processing, information management and document management – all structured to fit in with oil and gas industry processes. Petro IT is a rare instance of the software solutions company 'of the hydrocarbon sector, by the hydrocarbon sector and for the hydrocarbon sector', with PIPETRAK-IT its flagship solution, developed as a pipeline construction management system.



Saygilli is a turnkey specialized provider of personnel for contractors throughout the world, in demand for highly trained, professionally managed, pipeline crew staffing for the construction of oil, water and gas pipelines, on and off shore, as well as pump stations, oil and gas platform industries, plants and refineries.

The S.P.D.C. corporate entity was established through the vision of its founder, Ali Saygili, Sr., who worked his way up through the ranks in the onshore/offshore pipeline industry from the 1960's forward. Ali Saygili pioneered the trend in supplying a qualified workforce to pipeline construction companies worldwide since 1975, by providing a highly diverse and qualified supply of pipeline manpower to major projects around the world as well as by being the first professional to introduce training for automatic welders in Turkey.

Through the formation of S.P.D.C., Vedat SAYGILI solidified his father's vision into a globally successful entity in the year 2000 and continues to provide manpower resources while bringing 21st century innovations to the organisation. The company's reputation is built upon client references and it has one of the highest integrity ratings in the pipeline construction staffing industry.

Its ultimate mission is to create a workplace that nurtures training, creativity, respect, safety, and developmental opportunities for individuals while simultaneously providing superior professional services to present and future clientele, contractors, and joint venture partners. S.P.D.C. operates in a fiscally and environmentally sound manner while always striving to exceed EPA and other standards on a global basis.



Wasco Energy

Headquartered in Malaysia, Wasco Energy is a major oil and gas service group; offering a wide spectrum of oil and gas products and services, including pipe coating and corrosion protection services; EPC, fabrication and rental of gas compression and process equipment; E&P products and services.

Companies within the pipe coating and corrosion protection group include Kanssen (Yadong) Pipe Coating Services Ltd., with pipe coating plants in China, Nigeria and Saudi

Arabia and Turn Key Pipeline Services BV that undertakes pipe coating plant design and build services. Major projects for the group have been performed in Thailand, Australia, Malaysia, Russia, Turkey, Azerbaijan, Georgia and China. More information is available from:

BernardGUISOL@wascocoatings.com.



TT Technologies

Trenchless equipment manufacturer, TT Technologies based in Aurora, Illinois, USA offers a selection of trenchless tools and methods for the oil and gas pipeline industry. One trenchless tool in particular, for pneumatic pipe ramming, is being utilized by pipeline contractors in a variety of ways. Pneumatic pipe ramming is ideal for casing installations under rail lines and roadways because it displaces the soil without creating voids or surface slumps. Two of the most widely-used processes on pipeline installation are the slick bore method and pipe ramming machines that are being used for launch tunnel technology to install conductor barrel casings for large diameter gas and oil horizontal directional drilling pipeline projects.

TT Technologies has also developed additional pipe ramming techniques to help prevent failed directional drilling bores and even salvage bores. Properly configured pipe rammers can be used to salvage product pipes, remove stuck drill stems and assist drills during product pullback, overcoming hydro lock.

TT technologies, Inc. manufactures a full line of trenchless tools and equipment. The equipment is field-proven worldwide with over 35 years of experience.

TT Technologies' full line of trenchless equipment includes: Grundomat piercing tools, GRUNDOSTEER® guided piercing tools, GRUNDOCRACK® pipe bursting tools, GRUNDORAM® pipe ramming tools, GRUNDOMUDD® bentonite mixing and delivery systems, GRUNDOWINCH® constant tension winches and GRUNDOPIT® min-directional drill rigs.

TT Technologies provides equipment, accessories and training for municipalities, railroads, utilities, pipeline contractors and related industry contractors.

For more information visit the TT Technologies website at: www.tttechnologies.com

Information on new members Aktor S.A. and Ledcor Pipeline Ltd, and Associate Member SPC Specialty Polymer Coatings, Inc. will be available in the December issue of this newsletter.

MEMBER NEWS

Böhler Schweisstechnik Welding GmbH

Böhler Welding has added two new cellulosic covered electrodes to its existing range. Böhler FOX CEL 70-P and CEL 80-P are similar to the well known FOX CEL 75 and CEL 85 electrodes and designed for vertical down welding of large pipelines. They produce an intensive arc with a more fluid weld pool, producing high quality smooth weld beads on uncommon pipes as well as on standard steels. They are classified according to existing procedures of AWS and EN ISO. More information is available from nina.gruber@bsga.at or www.boehler-welding.com.



Welders work on a water pipeline in Saudi Arabia using the new electrodes. Photo © BÖHLER WELDING

AJ Lucas Acquires Mitchell Drilling

AJ Lucas has acquired Mitchell Drilling, enhancing its position in coal seam gas drilling. Mitchell Drilling is a Queensland-based family company which has been operating in the drilling sector for almost 40 years and is a leading drilling and specialty services provider to the natural resources industry, with 31 rigs in Australia. According to Chairman and CEO Allan Campbell the combination of AJ Lucas drilling and Mitchell Drilling is "highly strategic for AJ Lucas, and brings together two highly complementary businesses. This acquisition consolidates AJ Lucas' position as the premier CSG service provider in Australia."

Fluor®

Fluor Corporation is expanding its presence in south east Asia with a new and expanded operations office in Singapore. The new location will offer a range of services to Fluor's clients in the energy, chemicals, industrial,

infrastructure, operations and maintenance sectors. Fluor's new office is located at 80 Robinson Road, #02-00 in Singapore's prestigious central business district. Nearly 100 employees are expected to work in the 15,000 square-foot facility by the end of the year. Fluor Corporation (NYSE: FLR) provides services on a global basis in the fields of engineering, procurement, construction, operations, maintenance and project management. Headquartered in Irving, Texas, Fluor is a FORTUNE 500 company with revenues of \$16.7 billion in 2007. For more information, visit www.fluor.com.

Lincoln Electric's Welding Equipment Featured in New Box Office Smash *Iron Man*

In the new box office hit, *Iron Man*, Lincoln Electric welding equipment makes a cameo aiding Robert Downey Jr.'s character, Tony Stark, an engineering guru manufacturing a superhero suit to escape captivity. The hit movie made more than \$117 million at the box office in its first two weeks and is expected to be the first \$300 million movie of 2008. Lincoln Electric equipment was featured in the motion picture.

The Lincoln Electric Company, headquartered in Cleveland, Ohio, is a leader in the design, development and manufacture of arc welding products, robotic arc-welding systems, plasma and oxyfuel cutting equipment and has a leading global position in the brazing and soldering alloys market. For more information, visit their website at www.lincolnelectric.com.



Caterpillar® introduces 345D L Hydraulic Excavator

Caterpillar has introduced the 345D L hydraulic excavator, a direct replacement for its 345C L. The new model builds on the strengths of its predecessor, while incorporating new

designs that enhance performance and durability. Engine horsepower has been increased by 10 percent, yet the 345D L uses about the same amount of fuel in tough digging, high duty cycle applications. To conserve fuel during light-duty work, the hydraulic and engine control system has been redesigned to include a new power management feature. The operator now has the flexibility to select from alternative engine and hydraulic power settings without sacrificing breakout force or lift capacity. The alternative power options are accessible through the new D-Series monitor in the cab.



The new excavator also has undercarriage improvements, a heavier counterweight for greater stability and lifting performance, a standard heated seat and other new features to make the Cat® 345D L a valuable tool for high-production excavating, loading and underground utilities work. For more information about the 345D L, customers should contact their local Cat dealer or visit www.cat.com.

EUR 130 Million Manifa pipeline project awarded to NACAP

The Dutch Pipeline Contractor, NACAP has signed a contract with Saudi Aramco, to help develop the 900,000 barrel per day Manifa program. The contract was signed on 12 August 2008 and the project has to be completed at mid 2011. The project is known as "Manifa Downstream Pipelines and Water Supply Systems" and has a value of EUR 130 Million. The scope consists of the Engineering, Procurement and Construction of 420 km oil, gas and water pipelines with diameters varying from 24" to 56". The Manifa pipelines will bring crude oil from the new Central Processing Plant to Juaymah. The associated natural gas will be piped to the Khursaniyah Gas Plant. The project is located in the eastern province of Saudi Arabia, approximately 250 km north of the NACAP Regional Headquarters in Dammam.

NOVEL CONSTRUCTION GROUPS IN ACTION

IPLOCA Novel Construction Initiative Meeting in Italy, 16 and 17 July: Earthworks, FLUW, Lowering & Laying



Novel Construction in the home town of Verdi: (Left to right)
Back row: Flavio Villa, Kees van Zandwijk, Peter Solome,
Marco Lazzati, Bernard Quereillahc, Lars-Inge Larsson;
Middle row: Alain Hersent, Yasser Hijazi, Marco Jannuzzi;
Front row: Cortez Perotte, Kevin Klein, Bruno Pomar , Marco Laurini

Three of the Novel Construction Working Groups held pre-Athens coordination meetings on 16 and 17 July in Bergamo and Busseto, Italy.

Earthworks (Bruno Pomar ), FLUW (Bernard Quereillahc) and Lowering and Laying (Marco Jannuzzi) met in Italy, thanks to the hospitality of Tesmec in Bergamo and Laurini in Busseto (the home city of Verdi, with a tiny Opera building well worth a visit). The Earthworks group invited Dr.Ing.Marc Peters from Herrenknecht to describe the progress made in micro-tunnelling. The technology is impressive and no doubt in the near future will prevent laying pipe in extreme conditions and avoiding obstacles. However, knowledge of the soil to be encountered remains a major obstacle that will also impact the Risk Sharing group. Hopefully the work Tesmec and a Italian university are doing to develop a geo-radar system will help the issue we have today with lack of good geological data along the line. Mike Sweeney (BP) is very active in working out a correspondence matrix to correlate the various terminologies of soil,

whether from Caterpillar, DIN, and also using Australian and Russian standards. Interface with the Coating group still needs to progress with respect to backfilling. One of the problems is securing knowledge of the soil before laying; such an initiative has to be mentioned and IPLOCA may investigate ways to support it. Bernard Quereillahc (FLUW), presented a skidless methodology to install pipelines, keeping in mind the elimination of risks related to heavy pipes supported by skids. Basically, the line to be installed is directly supported by new equipment, also supporting working cabins (for welding, NDT, coating). The alignment process is done in the same way as on an offshore lay barge.

As welding tents/cabins are no longer hung on sidebooms, there are no umbilicals or any other cables at risk. Avoiding damage to cables will save time and money. Cabins being mounted on a steady platform, workers (welders, coaters etc.) will be able to remain in the air conditioned/heated cabs. This will be a major safety benefit and will also save time. Preliminary estimates are that productivity will increase by 20 to 30 percent. An estimate of manpower needs will be run before the Athens Convention, comparing this technology and the current one. Marco Jannuzzi presented the analysis of the Survey recently performed. Surprisingly enough, no contractor mentioned environment and pollution in the requirements of a new pipelaying machine because they expect the manufacturers to meet and anticipate environmental regulations. Safety, transportability, accessories and comfort are the main elements being studied that need to be translated in functional specifications.

Details from the above will be worked out during the next two months and all three groups should be ready for the meeting in Athens that is scheduled on Thursday, 2 October at 15:00 in Room Ypsilon I-IV of the Athenaeum Intercontinental Hotel.



Members of the Novel Construction Earthworks Group meet at the offices of TESMEC in Grassobbio, Italy, during July.

BOARD MEETING UPDATE

June 2008

During June the IPLOCA Board of Directors met in Montreal with participation from 16 of the 19 directors.

Key Meeting Outcomes:

Finances

The official 2007 financial audit is complete and copies were distributed to the board members. In the last year we have witnessed turmoil in the financial markets and this has impacted IPLOCA's investment portfolio with LODH which was set up to deliver a return of 7 percent per annum over a 10 year period.

Despite the financial climate we have so far seen modest growth of 4.9 percent in 2007 although the expectation is for further adjustment in the current year. IPLOCA assets are stated at approximately EUR 2.8 million as of 31 December 2007, of which approximately EUR 2.1 million is invested by LODH.

Strategic Planning

IPLOCA has decided to form a Strategic Development Committee, with meetings held by teleconference. George Demetriou, Jesus Garcia Pons, David Williams, Doug Evans, Kaan Dogan, Andy Lukas and Nasser Issa confirmed their interest in participating in the committee.

Regional Meetings

Board members who attended the Regional Meeting in Houston (May 2008) were asked to provide ideas for future meetings to be discussed at the next board meeting (Athens).

Training

Board member Leonid Bokhanovskiy (Stroytransgaz) and his assistant provided board members an update on the status of the training database being sponsored by Stroytransgaz, explaining that the Training Committee could add value from both a vertical (training and recruitment) and a horizontal (cooperation with other committees) standpoint. Every committee, whether safety, environment or novel construction, deals with training and there is a need to share this training initiative both inside and outside of IPLOCA. The committee will focus first on the training component before beginning to address recruitment.

Support for Novel Construction

Recognising the commitment of companies to Novel Construction, the board determined that, in future,

IPLOCA would cover the daily delegate charges (the cost of lunch and meeting room space, AV equipment etc.) for individuals attending Novel Construction meetings. Member companies would continue to cover the travel and accommodation costs of their participating employees.

Election Procedure

Designated Member Representatives (one representative per Member company) attend a short meeting of their appropriate geographical area, hosted by the area director on Thursday afternoon to vote for members to serve on the Board of Directors for 2008-2009. Please see below the list of board vacancies and meetings that will take place. No geographical area meetings are scheduled unless there is a vacancy in that region. Similarly, all Associate Members attend a meeting of their peers to vote for their representative(s).

Our sincere thanks to the following outgoing members of the IPLOCA Board of Directors whose terms are complete and whose board seats are becoming vacant within their geographical area, with upcoming meeting at the Convention:

- Doug Evans** - The Americas (1 vacant seat)
- John Reed** - Europe Northwest (1 vacant seat)
- Max Hofmann** - Europe Central (1 vacant seat)
- John Fabick** - Director for Associate Members (1 vacant seat)

A completed blue ballot paper naming the chosen representative must be delivered to the Executive Secretary by the Area Director or Associate Member Representative no later than 18:30 on Thursday, 2 October.

Proxies

If you are a Member or Associate Member carrying proxies (limited to five in number) a copy must be delivered to the Executive Secretary three days in advance of the AGM - by Tuesday, 30 September, in order to be valid. Board Nominations will be presented to the Membership for ratification on Friday morning at the AGM.

Annual General Meeting (AGM) (Friday)

All are invited to attend the Annual General Meeting on Friday morning. Voting on items requiring membership approval is limited to Members only (one vote per company), but Associate Members are welcome to attend the meeting.

CONVENTION UPDATE

The Athens Convention is completely sold out, and we are ready to welcome our IPLOCA members and guests to another memorable event.

Final Banquet Lottery

The charity selected to receive the proceeds from the Europepe Lottery this year is the malaria prevention initiative *Nothing But Nets* (www.NothingButNets.net).

This global, grassroots campaign to save lives by preventing malaria, a leading killer of children in Africa, was created by the United Nations Foundation. Donations to *Nothing But Nets* go directly toward the purchase, distribution and education about the proper use of an insecticide-treated bed net, and the Bill & Melinda Gates Foundation will match each donation, net for net. Bed nets work in two ways. They stop mosquitoes from biting during the night and spreading the disease and the insecticide on the net kills the mosquitoes when they land on it, stopping them from flying on to find their next victim.



Golf and Tennis

Convention week is always full of fine dining experiences and so a little extra physical exercise, be it golf, tennis or dancing, is definitely to be recommended. For those who planned ahead and registered for these potentially calorie-burning events, plenty of fun is in store.

The PIH Golf Tournament takes place on Tuesday, 30 September 2008 at the Glyfada Golf Course, approximately 30 minutes from the hotel by coach.



See Linda Carter at the golf desk in the registration area on Sunday or Monday to receive all the necessary information.

The Worldwide Machinery Tennis Tournament will use the courts at the Athens Tennis Academy and players of all levels will be accommodated. Again, information is available in the registration area.



Formal Wear: Planning Ahead for the Final Banquet

If you are attending the Final Banquet (and/or the other "black tie" or "formal dress" event, the invitation-only President's Dinner) and are planning on hiring your gentleman's evening wear in Athens, please be warned. There is apparently only one shop in Athens that does this: Paraskevopoulos, at 33 Akadimias Street, Koonaki, Athens can be reached at +30 210 3618087. Located in the upscale shopping district of central Athens, the shop alters each suit to fit the customer who picks it up

a few days later. To ensure availability you would need to contact them well in advance and arrange a fitting immediately upon arrival in Athens. This is especially true if you are attending the President's Dinner on Tuesday. The best option is undoubtedly to bring your own formal wear with you.

Shoes

Please remember that some of this year's tours will be by boat and flat, safe and comfortable shoes are essential. Those attending the Directors & Wives (invitation-only) dinner will need to change into clean, completely flat, non-street shoes on arrival at their event.

SPONSORSHIP

At press time, in addition to contributions to the general Convention Fund, only one sponsorship opportunity remained. The Associate Members Luncheon (EUR 15,000) is still available and there is (just) time to assure your company's visibility in Athens via this sponsorship. Companies providing sponsorship of EUR 10,000 or more receive one complimentary convention registration and an invitation to the prestigious black tie

President's Dinner on Tuesday evening. Please contact caroline.green@iploca.com to support your association with your valued sponsorship. All sponsors are recognised throughout the week and at the Final Banquet.

We are very grateful to the following companies for their early and enthusiastic support of the Convention. Without their generosity it would not be possible for us to host an event of this caliber. Please take the time to seek them out and thank them when you meet in Athens.

The First Time Attendees Cocktails

Pipeline & Gas Journal

The Dodsall Welcome Athens Party

Dodsall

President's Dinner

Heerema Marine Contractors

Directors & Wives Dinner

Ritchie Bros. Auctioneers

Former Presidents' Cocktails

C.A.T. International Ltd

The CRC-Evans Luncheon

CRC-Evans Pipeline Int'l Inc.

Applus RTD Group

The Caterpillar Evening

Caterpillar

Fireworks

Mantrac Unatrac Group

The Spy Ladies Brunch

Pipeline Inspection

Members & Associate Members

Cocktails

Volvo Construction Equipment GmbH & Co KG

Members Luncheon

Punj Lloyd Limited

Associate Members Luncheon

Available (EUR 15,000)

The John Fabick Cocktail Party

Pipeline Machinery Int'l

Golf Tournament

Pipeline Induction Heat

Tennis Tournament

Worldwide Machinery

Tour Programme:

1. Ancient Corinth & Mycenae

CPP China Petroleum Pipeline

2. Athens City Tour, Acropolis & Plaka

ShawCor Ltd.

3. Cycladic, Benaki & National Archaeological Museum Visits

Bonatti

4. Poros & Hydra Island Visits

Borusan Mannesmann Boru

5. Monastiraki, Keramikos & Ancient Agora

Jindal Saw Ltd

6 Cape Sounion

Lincoln Electric

7. Aegina Island Temple Visit

J&P and CCC

8. Athens City Tour, Acropolis & Plaka

ShawCor Ltd.

Convention / IPLOCA Functions:

IPLOCA Registration Desk

Ritchie Bros. Auctioneers

NEW - Welcome Drinks at Registration

PPS Pipeline Systems GmbH

NEW - Internet Centre

Entrepose Contracting

NEW - Bottled mineral water for all tours

HABAU Hoch- und Tiefbaugesellschaft m.b.H.

NEW - Coffee breaks at Open General Meetings

Trencor & American Augers (Divisions of Astec Underground)

Audio Visual at Open General Meetings

Land & Marine Project Engineering Ltd

Registration Bags for the Gentlemen

ShawCor Ltd.

Registration Bags for the Ladies

Attila Dogan Construction & Installation Co. Inc.

Wine at Final Banquet

Willbros Group, Inc.

Band at Final Banquet

Spiecapag

Entertainment at Final Banquet

Serimax

Audio Visual at Final Banquet

Herrenknecht AG

Car for Lottery

Europipe

Greek 'Bouzouki Night'

J&P and CCC

Photographers at the Convention

Fluor and PTPS JSC

Convention Photo CD

ROSEN Swiss AG

Printing of Convention Programme

Goriziane S.p.A.

Printing of Final Banquet Menu

Goriziane S.p.A.

Printing of Attendance List

Pipeline & Gas Journal

Russian Simultaneous Translation

Argus Limited

Coaches to the airport at end of Convention

Serimax

Convention Fund Contributions

Available

Fluor

J. Ray McDermott, Inc.

Land & Marine Project Engineering Ltd

Gifts:

Insight City Guide to Athens

Maats Pipeline Equipment

Liebherr model

Liebherr

Champagne at the Final Banquet

Socotherm

Ladies' gift

Petro-Force

Ladies' gift

World Pipelines

In Memoriam

FILIPPO CARINA, 1928-2008

By Norberto Carina



2002 - IPLOCA Honorary Member

Many of you know my parents, Filippo and Giovanna Carina. My father Filippo, as one of the directors of Montubi, was an early and convinced supporter of IPLOCA at the time that IPLOCA was still based in Paris.

Later on, as Managing Director of Montubi Spa, he became President of IPLOCA (1972). In 2001 he was made an Honorary Member through a unanimous vote of the then Board of Directors. My parents attended 39 out of 41 conventions. After a lifetime of undisputed achievements, he peacefully passed away, on May 22, 2008.

My parents are both Italian, born in Cairo, Egypt. At that time the world as we know it was a different place. Filippo started his pipeliner life in 1955, soon after receiving his engineering degree, working on the first Suez to Cairo oil pipeline. That pipeline was completed just before the Israel-Arab Conflict. Then, he realized the Suez sea terminal – a job that consolidated good relations with Egypt, with which our family has had a continuing love affair for generations. In Egypt he also realized the SUMED, a project known worldwide and in 1975 he had the idea to create Petrojet, initially an Egyptian-Italian company, with Montubi SpA as foreign technical and commercial partner, and Egyptian General Petroleum Corporation as local partner. Today's Petrojet is a leading company and contractor, fully Egyptian, with an international presence and clear vision, supported by the Egyptian Government, and an impressive workforce exceeding 20,000 people.

My father also worked in Libya, a country as important as Egypt, where he realized projects in Hateiba, in Sarir, in Zawiya, including the first feasibility for the Tazerbo-Sarir; in Spain, where he set up the Spanish-Italian joint venture Montubi-Dragados; Algeria; Iraq; Nigeria; Switzerland; Tunisia; and Saudi Arabia, to mention only some. In Italy he realized flagship projects like the Pertusillo waterline, the Trieste waterline (dubbed Pipeline of the Year 2000, so advanced as it was at the time) and the oxygen pipeline between Genoa and Milan. These are just a few of 'his' achievements; listing them all would take too long and might bore our readers, but for him it was a labour of love.



1954 - Egypt - Cairo-Suez Pipeline



1960 - Syria - Prospecting



1961 - Italy - Brindisi Sea Line



1961 - Italy - Brindisi Sea Line



1966 - Egypt



1970 - Egypt - El Alamein



1970 - Italy - GE_MI Oxygen Pipeline



1975 - Egypt - Montubi and EGPC co-found Petrojet



1978 - Libya - Hateiba Jebel



1978 - Egypt - Ras Gharib Shallow water platforms



1979 - Italy - Pertusillo



1979 - Nigeria - NNPC Jos Pump Station

He was a tough manager, strong minded and determined, who could make an accurate assessment of anyone in a matter of seconds. By means of his seriousness, humanity, and professionalism, he contributed greatly to the development of many countries, and the Carina name is recognised with fondness and respect. There is no doubt that the period from 1960 to 1980 was difficult for everyone. Resources were scarce, money also, infrastructures were yet to be built, and the geopolitical situation was very different. Not to mention the two oil shocks, the economy was yet to evolve to present day levels and sophistication...

Despite all that, Filippo Carina was always well accepted, by both competitors and clients. Such good relationships were very helpful during difficult times, and most of them evolved into long-lasting friendships. Under his management, Montubi expanded from a workforce of 200 and a turnover of less than 100 million Lire (1955), mainly in Italy, to a workforce of more than 5,000 and a turnover of more than 200 billion lire of 1982, even operating its own fleet of offshore vessels, and characterized by a strong international presence and recognition by the industry at large.

After Montubi, my father set up our own consultancy business in Geneva, where we have lived for the last 30 years. He told me that the time had come also for him to join the long established family tradition of entrepreneurship. I started to work with him very early; little by little, with his guidance, and over some 20 years, I began to work at his level. I must admit that it was often difficult

to be both son and collaborator, as he was always very demanding. During his last years he was content to be my consultant, a role he enjoyed until his last weeks.

He was very happy and proud of his role in IPLOCA, which he always considered amid his great achievements and satisfactions. Despite recent surgery and health problems, he made a supreme effort and attended the 40th Convention in Barcelona. He was deeply honored by the special celebration and shield he received. He was also very proud of our company, under my leadership, being accepted as an Associate Member. Indeed, he was a protagonist in the first 50 years of the pipeline industry, first as a leading contractor then as a widely respected consultant but he always said that he could not have realised a tenth of what he did, had it not been for the inspiring strength of my mother, Giovanna.

In my father's own words, "Let me give special thanks to all those who give us the best support one can ask for: our families. With enduring strength and patience they accept us being far away, our moods, our deep silences and thoughts, our worries, always giving us the will and courage to accomplish our duty, to bear our long days away, to contribute to the progress and wellbeing of mankind, to realize our innermost aspirations and to give us a family with whom to share our memories."

He would say that we are only guests here, and that there is no future without a solid past. Now it is our turn.



1961 - Italy - Falconara Sea Line



1961 - Egypt - Cairo Int'l fair with president Nasser



1962 - Egypt - Suez Refinery Terminal



1962 - Egypt - Suez Refinery



1976 - Lybia - Sarir



1976 - France - IPLOCA Board of Directors



1977 - Lybia - Zawia



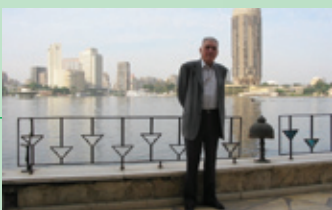
1977 - Egypt - SUMED



1979 - Nigeria - NNPC Jos Pump Station



1980 - Spain - Algeciras



2003 - Cairo - Still at work...



2006 - Barcelona Convention - 40 Years of IPLOCA

UPCOMING CONFERENCES

Rio Oil & Gas Expo and Conference 21st Century Oil & Gas Industry: Technological Challenges
15-18 September 2008
Rio de Janeiro, Brazil

European Forum Gas 2008
18-19 September 2008
Bratislava, Slovakia
www.efg2008.eu

Power Engineering for Ukrainian Industry 2008
24-26 September 2008
Kiev, Ukraine
www.tech-expo.com.ua/eng/pek/home.php



IPLOCA 42nd Annual Convention
29 September – 3 October 2008
Athens, Greece
www.iploca.com/2008convention

International Pipeline Exposition 2008 - Calgary
30 September - 2 October 2008
Calgary, Canada
www.petroleumshow.com

International Gas Union Research Conference
8-10 October 2008
Paris, France

APIA 40th Annual Convention & Exhibition 2008
11-14 October 2008
Perth, Australia
www.apia.net.au/events/convention2008.shtml

Oil and Gas transportation in the CIS and Caspian Region
14-16 October 2008
Moscow, Russia
www.theenergyexchange.co.uk/cispipes10overview.html

Fifth International Pipeline Exhibition along with 2008 China International Petroleum Pipeline Cooperation and Development Summit CPP Golf Tournament
16-18 October 2008
Lanfang City, China
www.pipechina.com.cn/eng/index.asp

Biofuels 2008 - 3rd Annual Meeting
28-30 October 2008
Berlin, Germany
www.wraconferences.com/biofuels3overview.html

Russian Oil & Gas Technical Conference & Exhibition 2008 -SPE
28-30 October 2008
Moscow - Russian Federation
www.russianoilgas.com

Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC)
3-6 November 2008
Abu Dhabi, United Arab Emirates
www.adipec.com

North African Oil and Gas Summit 2008
4-6 November 2008
Vienna, Austria
www.theenergyexchange.co.uk/nas3overview.html

Iraq Oil+Gas Summit
5-6 November 2008
Houston TX, USA
www.new-fields.com/iogs/index.html

4th International Lubricants Russia Conference
12-13 November 2008
Moscow, Russia
<http://www.rpi-conferences.com/conference/?cnf=5>

4th Asian Pipeline Conference & Exhibition
19-20 November 2008
Kuala Lumpur, Malaysia
www.ascopegas.com.my

Pipe Tech World Summit 2008
24-26 November 2008
Istanbul, Turkey
www.pipetechsummit.com

Refining and Petrochemicals in Russia and the CIS

2-4 December 2008

Prague, Czech Republic

www.wraconferences.com/rrr12overview.html

Deep Offshore Technology International - Asia/Pacific

3-5 December 2008

Perth, Australia

<http://doti08.events.pennnet.com/fl>

The European Gas Conference 2009

27-29 January 2009

Vienna, Austria

www.theenergyexchange.co.uk/EUROGAS

Deep Offshore Technology International Conference & Exhibition

3-5 February 2009

New Orleans, USA

<http://dot09.events.pennnet.com/fl>

Russia Offshore 2009 - 4th Annual Meeting

4-6 February 2009

Moscow, Russia

Gas Arabia 2009 - 4th Annual Meeting

11-12 February 2009

Abu Dhabi, U.A.E

Gas Asia 2009

17-18 March 2009

Kuala Lumpur, Malaysia

Hannover Messe 2009*

20-24 April 2009

Hannover, Germany

www.hannovermesse.de

Base Oils and Lubricants in Russia and the CIS 2nd Annual Meeting

23-24 April 2009

Moscow, Russia

2009 Oil and Gas Pipelines in the Middle East 9th Annual Meeting

4-6 May 2009

Abu Dhabi, UAE



Featured Conference

Hannover Messe 2009 20-24 April

Over the past several years, HANNOVER MESSE has substantiated its claim to

being the central showcase and knowledge-sharing platform on the subject of energy efficiency and future sustainability.

At the 2008 event more than 1,000 exhibitors presented their energy-related technologies on a total display area of approx. 40,000 square meters, breaking all previous records. More than 100,000 visitors were drawn to the various energy displays. One in every two visitors attending HANNOVER MESSE headed for the energy-related exhibits in halls 11, 12, 13 and 27. No fewer than 30,000 visitors attending Energy came from outside Germany. An impressive 90 percent of the visitors were professionals.

Over a period of several years, Hannover's energy shows have been achieving steady growth: Since 2004, the total display area dedicated to energy has risen by 23 percent, while the number of exhibitors has grown by 17 percent.

"Pipeline Technology" was ideally located at HANNOVER MESSE – at the heart of the new "energy-mix" line-up in Hall 27. The combination of "Power Plant Technology" and "Pipeline Technology" allowed exhibitors to present their products and services to an extended target audience recruited from the power generation and pipeline sectors.

From R&D and planning through to construction and modernization - "Pipeline Technology" mirrors the entire value-added chain for the transport of oil, gas and water. Combining a top-level congress with an exhibition, "Pipeline Technology" will attract senior decision-makers from business, industry and government.

More Information: about Hannover Messe 2009 is available from Peter Helms-Lundborg, Project Manager, +49 511 89 31314, peter.helms-lundborg@messe.de or by visiting www.hannovermesse.de.



UP, UP AND AWAY...

Lighter than Air: A Solution to Transport Problems over difficult terrain

By Ian Edmonds

Heavy load transport over mountain, marsh or sand terrain is notoriously difficult with conventional wheeled vehicles. Helicopter lifting has limited capacity and is expensive.

For the transport of payloads in the 10 to 100 tonne range different types of lighter than air machines, such as balloons or dirigibles, are beginning to be considered seriously. Currently, Boeing (USA) is developing a helium lifter and Solartran (Australia) is developing a hot air lifter.

The Boeing Helium Lifter

Load transport with a conventional helium-filled dirigible is problematic since load lifting must be compensated by shedding an equivalent weight of ballast – usually water. When the load is released at the drop-off point water ballast must be taken on again.

To circumvent this problem Boeing, in collaboration with Skyhook Canada (www.skyhookhlv.com), have proposed a dirigible-helicopter combination. The proposed helium-

filled dirigible, 90 m long and 70 m high, supports four helicopter engines, a hoist and a personnel platform in neutral buoyancy and operates as follows: When the lifter has traveled to the pickup point the payload is attached and the four helicopter engines are started to provide vertical thrust to lift up to 35 tonnes. With the helicopter engines running to maintain lift the dirigible is driven to the drop point by horizontal fans. At the drop point the payload is lowered and power to the helicopter engines gradually reduced to zero when the payload can be detached. The mode of operation depends on very precise control of power to the four helicopter engines.

The Solartran Hot Air Lifter and Mode of Operation

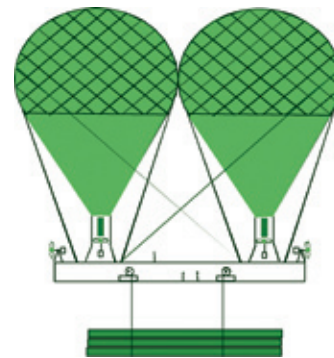
With a hot air balloon, lift is obtained by heating the air in the balloon with propane gas burners. A balloon such as the Cameron Z 1600 (diameter 44 metres) can lift up to 10 tonnes, depending on the internal and ambient air temperature. For example, with the ambient air temperature at 15°C and internal air temperature at 40°C, the balloon can lift 4 tonnes. If the internal air is heated to 80°C the lift is 9.5 tonnes.

The lift of a balloon increases roughly as the balloon diameter cubed. Thus a balloon of twice the diameter (88 metres) would lift, for the same temperatures, 35 tonnes

and 80 tonnes. The problem of transport with a conventional hot air balloon is that, when an open balloon is driven horizontally, air friction causes the balloon to collapse. Hot air airships use a slight overpressure to maintain a streamlined shape. Commercial models can travel at 30 km/Hr. However, these airships are small compared to the largest commercial balloons and the lift available is about 30 times smaller.

To circumvent the travel problem with balloons, Solartran (www.solartran.com.au) is proposing a two-balloon lifter with each balloon maintained at a slight over-pressure by fans delivering air to nearly closed balloons. For a heavy lifter the balloons would fill into nylon rope nets and would be cross-braced to a horizontal equipment platform suspended below the balloons so that the combination is stable against horizontal friction forces. The mode of operation is as follows. Each morning the balloon envelopes are filled with air by fans mounted on the platform. Propane burners heat the air to obtain buoyancy.

The lifter rises and is driven to the pick up point by horizontal fans. With the payload attached the propane burning is increased until the buoyancy is sufficient to raise the payload. The lifter is then driven to the drop off point with propane burning sufficient to compensate for heat loss from the internal air. The balloons and payload are then lowered by venting hot air and replacing with ambient air.



Comparison of Operational Costs

The helium in a helium lifter is very expensive and is a major running cost. Conversely the air in a hot air lifter costs nothing. Both machines burn a lot of fuel. In the helium lifter the helicopter engines burn fuel to provide engine thrust to support the payload. It is likely that the

Lighter than Air Q&A

Luc Henriod (IPLOCA) asks questions of article author Ian Edmonds

Q. The helicopter system from Boeing seems to be less sensitive to side winds. Is this correct?

The side on the Boeing helium lifter is an ellipse 90 m long and 70 m high, presenting an area of 5000 sq m. The side on the equivalent hot air lifter is a circle of diameter 88 m, presenting an area of 6000 sq m. Thus in terms of area exposed to side winds the difference is only 1000 in 5000 or about 20%.

Q. The pipeline industry works from Arctic to Saharan conditions, or - 50°C to + 50°C. Do you see any restrictions with your system for these extreme temperatures?

The change in ambient temperature results in a change in density of the air. At -50°C the density is 1.7, at + 50°C the density is 0.9. Since the lift equals the weight of air displaced both systems, helium and hot air, work better in cold conditions. The hot air system works much better in cold conditions as you can take in cold air and then heat it up to +80°C to get very high lift. It works less well in hot conditions. In hot climates e.g. Sahara, you would operate a hot air system at night when the temperature drops towards zero.

A helium balloon is relatively independent of ambient temperature. However, the payload lift that you get from the helicopter engines is strongly dependent on air temperature in the same way as the hot air balloon is. The helicopter engines work well in colder air as the air being accelerated is heavier and not so well in hot air. So for the helium lifter you would also prefer to use it at night time in the Sahara.

Q. What we would like to achieve long-term, would be to unload pipes directly into a feeder. This means a precision required for all three axes (X,Y and Z) of 20 to 30 cm maximum. Can your system meet that?

In terms of precision drop the considerations are as follows: The Boeing helium lifter develops payload lift from four big helicopter engines, developing 35 tonnes of lift. As a consequence there is a large downdraft generated during flight between the pick up point and the drop point. As a result the helium lifter must raise and lower from about 100m to 200 m high to avoid downdraft effects at the pick up and set down points. To obtain accuracy of set down you would need to have ground operators with guy ropes on the load. The hot air lifter develops payload lift from buoyancy and has no downdraft at all. So it is possible to raise and lower the load essentially from ground level. This may make the hot air system more accurate in set down. However, for 20 cm accuracy you would probably still require ground operated guy ropes.

four engines would be turboprop jet engines similar to those used in the Chinook helicopter. A Chinook delivers 7 MW of mechanical power to provide thrust capable of lifting the Chinook (14 tonnes) and a maximum payload (11 tonnes). For a 35 tonne payload the mechanical power needed would be about 20 MW. Assuming an engine efficiency of 50% the helium lifter would burn fuel to deliver heat to the engine at the rate of about 40 MW for as long as the lifter is carrying the load. (The cost of 1 MWhr of fuel energy is about \$100.)

The hot air lifter burns fuel to maintain the temperature of the air in the balloons above the temperature of the ambient air. For a single 88 m diameter balloon a lift of 35 tonnes is obtained when the ambient air temperature is 15 °C and the internal air temperature is 40°C. With the surface of the balloon 25 C hotter than the surrounding air elementary heat transfer theory predicts a heat loss by radiation of 4 MW and a heat loss by forced convection of 3 MW. The combined rate

of heat loss of 7 MW must be replaced by burning fuel while the hot air lifter is carrying the load. This suggests that a hot air lifter (fuel rate 7 MW) would be less costly to operate than a helium/helicopter lifter (fuel rate 40 MW).

However, time of flight determines the fuel cost per load carried and the flight speed of the proposed helium lifter (130 km/hr) is much higher than the speed of a hot air lifter (20 km/hr). Speed and fuel cost considerations suggest the hot air lifter concept would be limited to short haul (< 40 km) operation.

The manufactured cost of a hot air lifter can be estimated from the known cost of hot air balloon systems currently available from the recreational balloon industry. It is estimated that a 20 tonne hot air lifter could be assembled from two Z-1600 balloon systems for about \$ 2M. The projected cost of the Boeing helium/helicopter lifter is not currently available.

IN THE HEADLINES

Third Azerbaijan pipeline will save Iran \$7b a year

TEHRAN - Commissioning the third Azerbaijan gas pipeline will prevent the outflow of over \$7 billion a year, the Iranian Gas Engineering and Development Company (IGEDC) managing director said here on Saturday. "Taking the average price of a barrel of crude oil at \$100 and one cubic meter of natural gas at €30, it is concluded that replacing oil products with natural gas will save over \$22 million per day which will sum up to \$7.3 billion per year," Alireza Gharibi explained, PIN reported.

Tehran Times, 24 August 2008

Turkish Cypriots plan water pipeline from Turkey

NICOSIA - A water pipeline is being planned to link Turkey with drought-hit northern Cyprus in a bid to ease a critical water shortage on the Mediterranean island, an official said on Thursday. The Turkish Cypriot administration in the north of the island believes a 60 km (37 mile) pipeline running between southern Turkey and northern Cyprus could carry up to 75 million cubic metres of water annually.

Reuters, 20 Aug 2008

Oil Tumbles More Than \$6 on Stronger Dollar, Pipeline Restart

Crude oil fell more than \$6 a barrel, dropping the most in percentage terms since December 2004, as the U.S. dollar strengthened and BP Plc restored shipments on a Caspian Sea pipeline through Turkey. Energy futures fell as the rising

dollar eased demand for commodities as an inflation hedge. The Baku-Tbilisi-Ceyhan pipeline, which moves oil from Azerbaijan through Georgia to Turkey's Mediterranean coast, resumed normal flows today after a fire shut it earlier this month, a Turkish official said.

Mark Shenk, Bloomberg.com, 24 August 2008

Ocean platform could take 20 pct of US oil imports

HOUSTON (AP) - Three companies plan to build a terminal and pipeline network off Texas capable of handling nearly 20% of the nation's daily imported oil. Executives today announced demand from expanding refiners along the coast, from Freeport to Port Arthur, is driving the \$1.8 billion project. The Texas Offshore Port System, or TOPS, is a joint venture of Enterprise Products Partners and Teppco Partners, both based in Houston, and Oiltanking Holding Americas.

Associated Press, August 18, 2008

Opec set to cut oil supplies after weakening demand sparks sharp price fall

Oil cartel Opec is expected to reduce supplies next month following a sharp fall in crude prices on Friday. The value of US crude fell 5.5% to \$114.59 a barrel – the biggest drop in percentage terms in one day since December 2004. In London, Brent crude dropped \$6.24 to \$113.92 a barrel. Analysts put this drop down to rising supply levels and weakening global demand. They said this may lead Opec to cut the flow of oil when it meets in Vienna on September 9. The cartel is the source of about a third of the world's capacity.

Rosemary Gallagher, Business.scotsman.com, 24 August 2008

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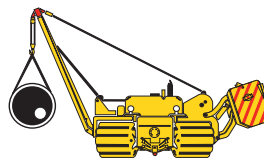
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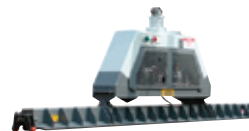
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