IPLOCA New Technologies Committee

Scot Fluharty

New Technologies Committee Chairman

New Technologies Committee
2017 Activities

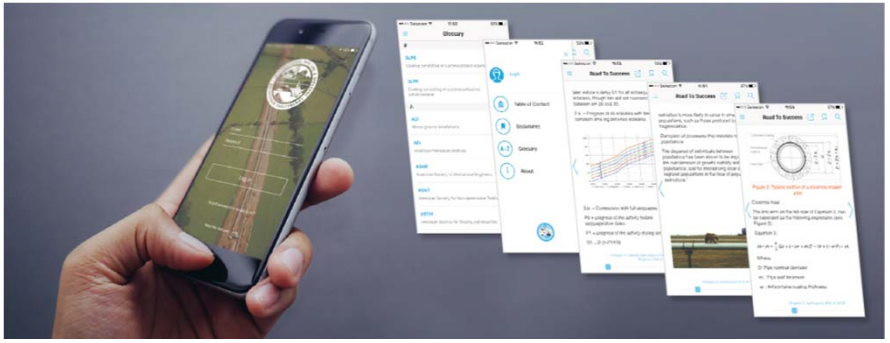
- Continued development of *The Road to Success*
- Conversion from a paper document to a mobile app
- Further development of PRCI lowering in study
- Sharing agreement with PODS

The Road to Success

Contents

1. Health and Safety in Pipeline Projects
2. Development Phases of a Pipeline Project
3. The Baseline of a Construction Contract
4. Dealing with Risks in Pipeline Projects
5. Planning and Design
6. Earthworks
7. Crossings
8. Logistics
9. Welding
10. Non-Destructive Tests
11. Coatings
12. Pipelines and the Environment
13. New Trends and Innovation
14. Bending
15. Hydrostatic Testing & Precommissioning
16. Research Projects

4th Edition February 2017 as a mobile app on Android and iOS



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Glossary

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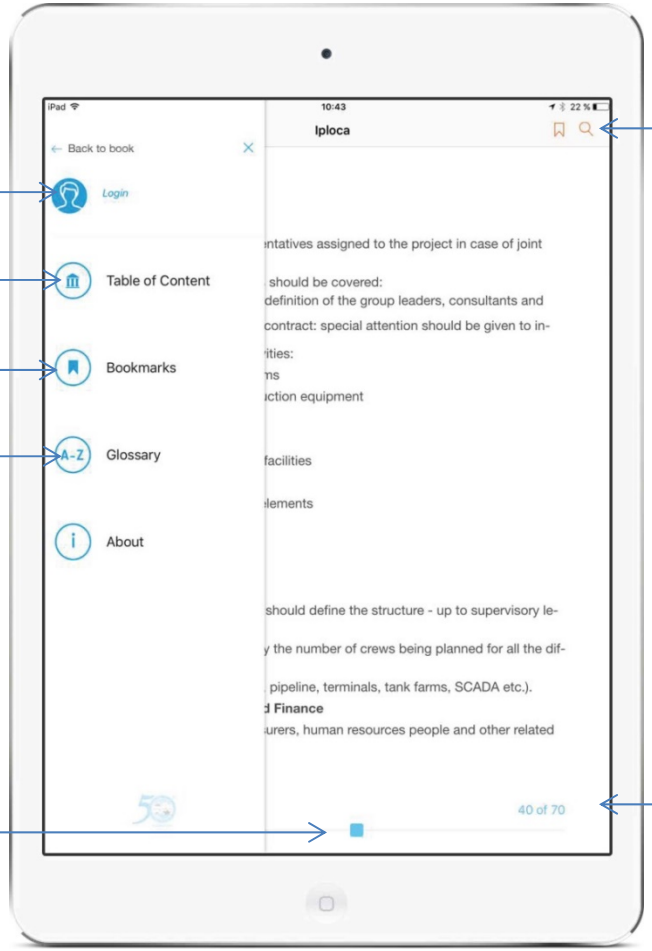
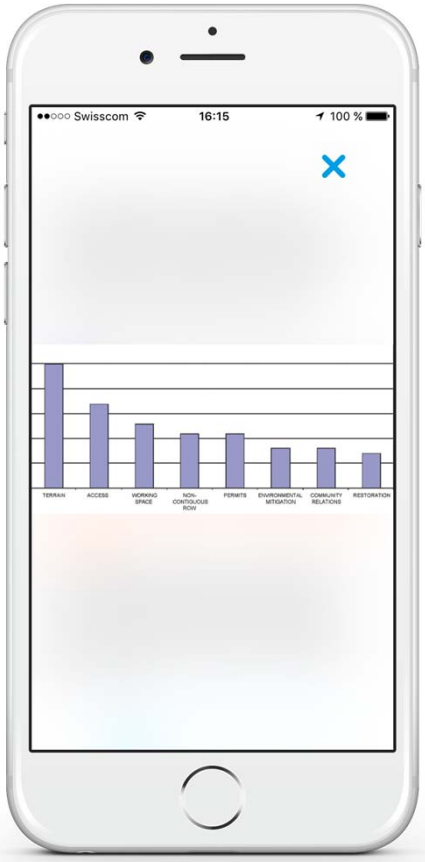


Search tool

Page number

The Road to Success: Reading features



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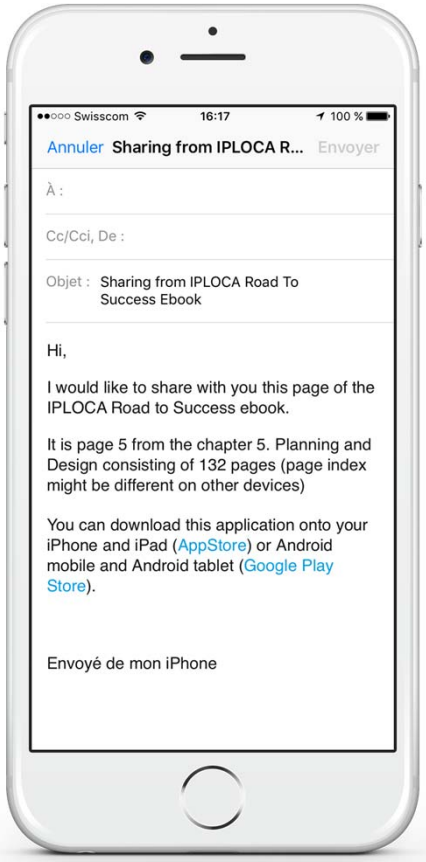
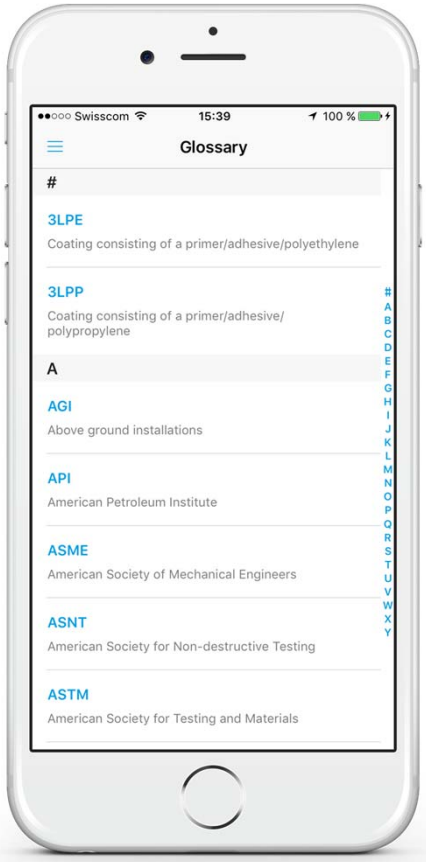


Page sharing



Glossary search

The Road to Success

- on iOS and Android, open the App / Play Store and search for IPLOCA

  Password: RtS2017

- Already 1167 apps downloaded to date

- Pdf available upon request to roadtosuccess@iploca.com

Novel Construction Fall Session

Wednesday 25th and Thursday 26th October
Geneva Switzerland

- presentations by industry technology leaders
- opportunity to participate in 10 different subcommittees working on

  The Road to Success

Registration is required
www.iploca.com/novelplenarysession

Novel Construction Fall Session

Wednesday 25th and Thursday 26th October
Geneva Switzerland

Topics of presentations include:

- Engineering Assessment for Temporary Wooden Line-pipe Support
- Bridging Buried Pipelines
- Laser Cleaning for Industrial Applications
- Laser Technology – Alternative for Field Joint Abrasive Blast Cleaning
- Innovation and Safety in HDD Exit Side Operations
- Electronic Detonators for Trench Blasting
- Dispute Avoidance in Infrastructure Projects

2017 IPLOCA New Technologies Award sponsored by BP

bp

IPLOCA Awards

Awards are intended to:

- Reward those who are “leading by example”
- Share information amongst the industry
- Inspire the industry for new initiatives
- Profile the industry trends




American Augers Electric Auger Boring Machine 36/42-600E

IPLOCA New Technologies Award

AMERICAN AUGERS®

TRENCOR

Going Digital with Drone Solution

- Nomination to IPLOCA New Technology Award


LaValley Industries
CRC-EVANS
TONGHAND
TONGHAND® Exit Side Wrench

LAURINI OFFICINE MECCANICHE

INTERNATIONAL PIPE LINE & OFFSHORE CONTRACTORS ASSOCIATION

LLS
LAURINI LAYING SYSTEM

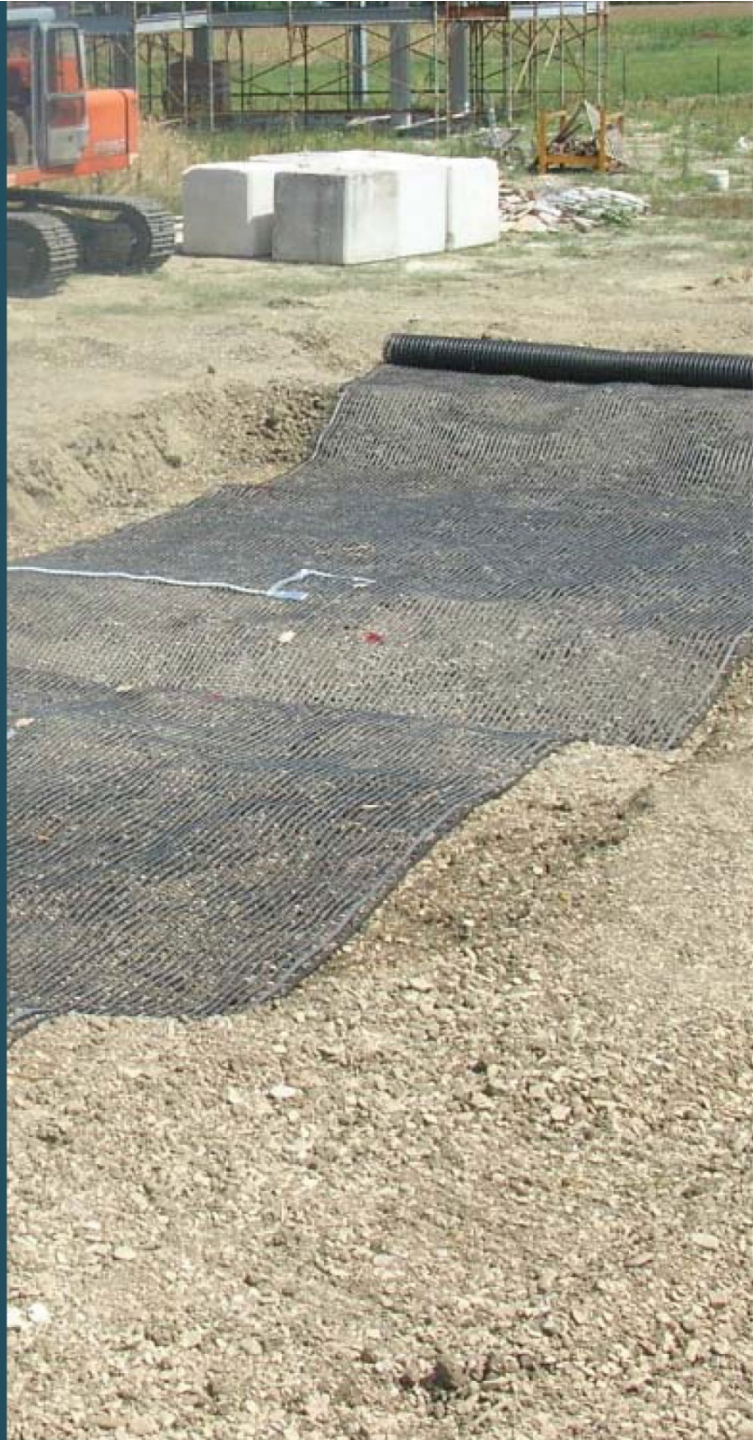
LAURINI LAYING SYSTEM

SAIPEM

GEOGRID FOR EXISTING BURIED PIPELINES CROSSINGS

2017 IPLOCA New Technologies Award
sponsored by
BP

Fano, Italy - May 17



WORLDWIDE EPC SOLUTIONS FOR OIL & GAS SINCE 1962

IPLOCA 2017 - New Technologies Award

“Front winch ex-cavator”

SPIECAPAG ENTREPOSE

AUTOMATED & MECHANISED FIELD JOINT COATING CREW

IPLOCA NEW TECHNOLOGIES AWARD SPONSORED BY BP

IPLOCA
INTERNATIONAL PIPE LINE & OFFSHORE CONTRACTORS ASSOCIATION

bp

Rev. 2017

together @ VINCI

2017 IPLOCA New Technologies Award, sponsored by BP

Runner-Up

bp

WORLDWIDE EPC SOLUTIONS FOR OIL & GAS SINCE 1962

IPLOCA 2017 - New Technologies Award

“Front winch ex-cavator”

WORLDWIDE EPC SOLUTIONS FOR OIL & GAS SINCE 1962

Findings:

In pipeline construction to perform activities on steep slopes and unstable ground, equipment and heavy machinery must be secured to a winch. Traditional winching operations could have the following issues:

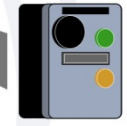
- **Heavy equipment** working on steep slopes require very large winches that can be stationary or rear-mounted on standard machinery like dozer or sideboom.
- **Major impact on Health and Safety** due to trailing machines on steep slopes and the coordination of various machines entailed.
- **Major impact on Health and Safety** for lifting operations and transport.
- Major impact on **timing and costs** for the installation, anchoring and for the additional machines involved.
- Rear mounted winches have **limited rope capacity** and pulling force, and the operator must progress reversing on slopes.

WORLDWIDE EPC SOLUTIONS FOR OIL & GAS SINCE 1962

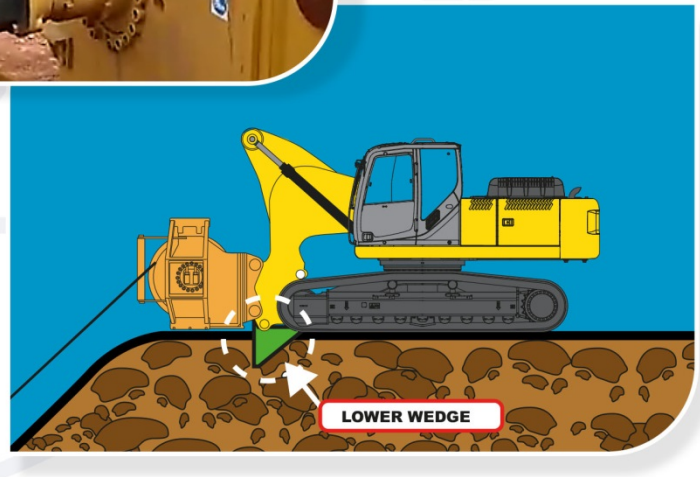
Solutions:

Front winch Ex-cavator:

- Machine with **low weight**, easy to move.
- **Machine ready to work in 15 minutes;** easy to fix and install.
- Able to **pull itself** on steep slopes.
- Completely **independent**; additional machines not necessary.
- High performance and **double safety factors**: 2 motor gear units = double pulling force and double brake.
- Working area always in **front** of operator's cab and under operator's control that can view winching activities continuously.
- **Loading + Transport + offloading** operations are simple and **safe**.
- Specific cabin **protection**.



Electrical device



WORLDWIDE EPC SOLUTIONS FOR OIL & GAS SINCE 1962

Achievements:

- 360° Working area
- High rope capacity:
  490 m @ 7th layer of Ø 32 mm rope.
- High pulling force:
  40 ton @ 1th layer.
- Electrical device allows to monitor the winch performance and to check the winch wear and tear.

2 motor gear and double brake

WORLDWIDE EPC SOLUTIONS FOR OIL & GAS SINCE 1962

For additional information
Please contact

Luciano Oppimitti
Corporate Equipment Manager
Sicim
l.oppimitti@sicim.eu
Tel. +39 0524 930211

2017 IPLOCA New Technologies Award, sponsored by BP

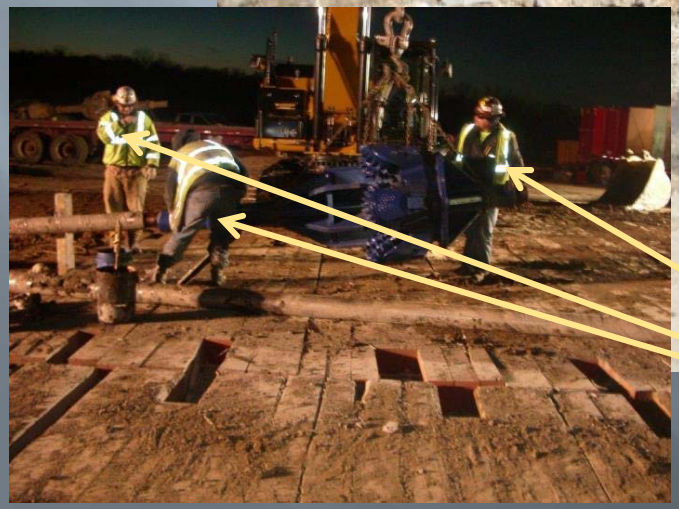
Winner


LaValley Industries
CRC-EVANS
TONGHAND
TONGHAND® Exit Side Wrench

Traditional Exit Side Methods

"Choking" the pipe string

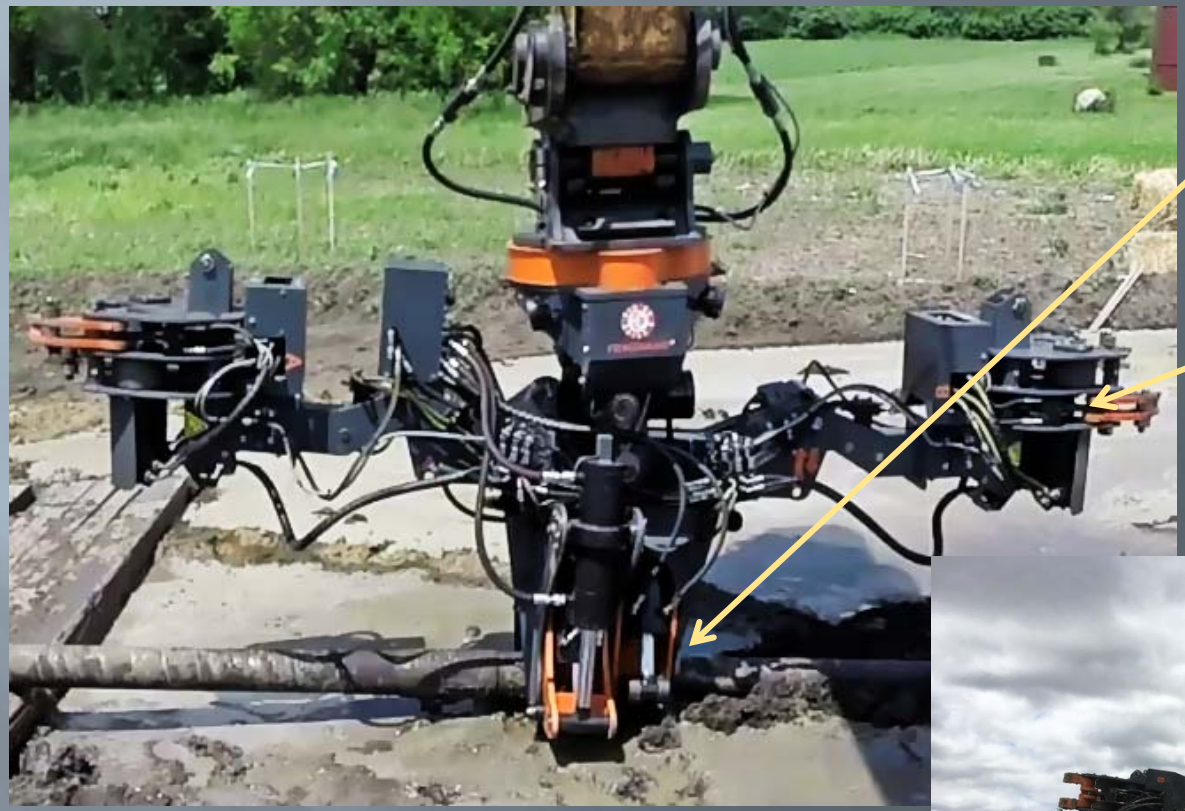
Pushing down on chain wrenches



Workers at tool joint

TONGHAND®

Vise Action



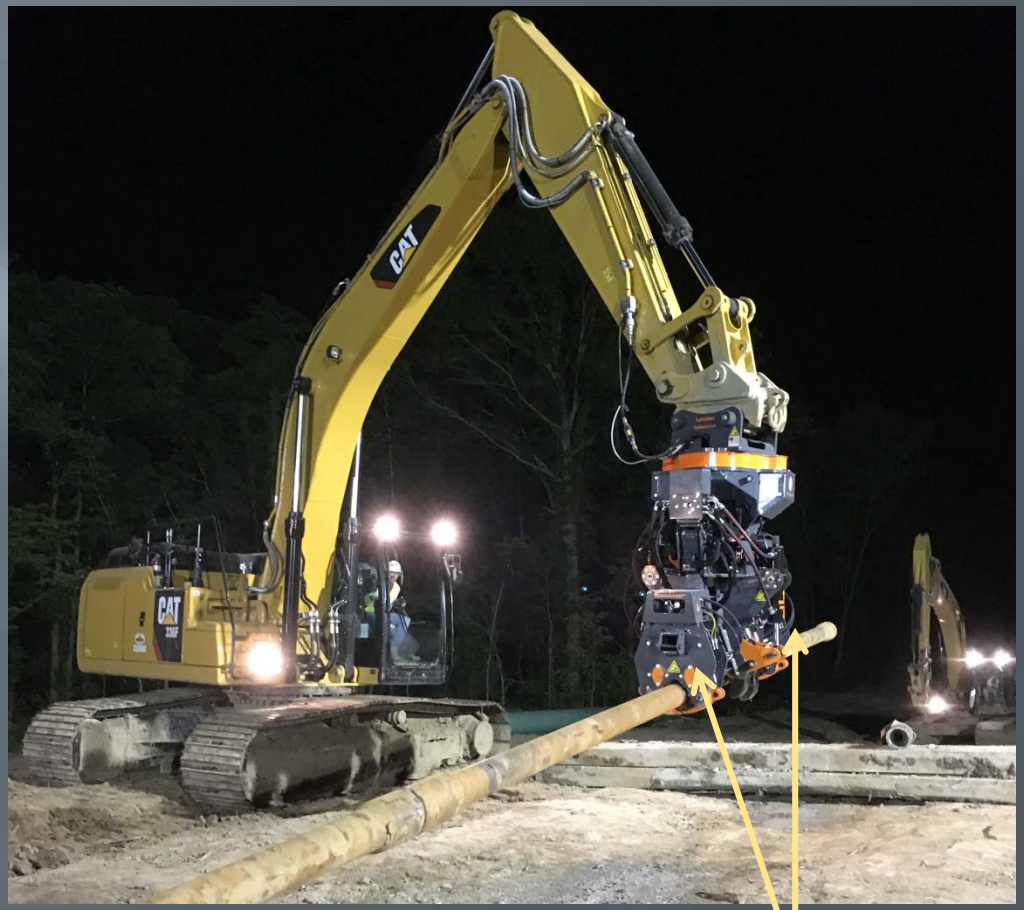
Tongvise™ torques and un-torques joints up to 120,000 ft -lb.

Gull Wing Arms raise out of way

No workers at tool joint

TONGHAND®

Pipe Rotation



Roller Arms can operate independently

Can be used as a pipe handler

Roller Arms spin drill rod

TONGHAND®

In-Cab Controls

In-cab touch display sets all TONGHAND® operating parameters

Tool joint being torqued to 80,000 ft-lb.

Proportional control handles activate all TONGHAND® motions

TONGHAND® TongVise™ controls activate all vise actions

IPLOCA Awards

Details on winning entries available online at

www.iploca.com

IPLOCA
INTERNATIONAL PIPE LINE & OFFSHORE CONTRACTORS ASSOCIATION

ABOUT US | COMMITTEES | MEMBERSHIP | EVENTS | AWARDS | PUBLICATIONS

H&S Award | Environmental Award | Corporate Social Responsibility Award | New Technologies Award | Excellence in Project Execution Award

> 2015 New Technologies Award
> 2013 New Technologies Award
> 2011 New Technologies Award
> 2009 New Technologies Award
> 2007 New Technologies Award
> 2005 New Technologies Award
> 2003 New Technologies Award
> 2001 New Technologies Award

2015 IPLOCA New Technologies Award Winners

The 2015 IPLOCA New Technologies Award sponsored by BP was presented during the Annual Convention held in Singapore, in the presence of Michael Hiam, Engineering Manager, BP Integrated, Supply and Trading. The award is given in recognition of a significant achievement in the development of new pipeline technologies.

Jean Claude van de Wiele, Chairman of the IPLOCA New Technologies Committee, made the presentation and addressed the members of the audience on the subject of new technologies. To review his presentation please click here.

If you are interested in any specific submission, please contact Sarah Junod

The committee decided to present the award to **Denys and Selmers**, represented by Luc Hoppenbrouwers, Johan van Wassenhove and Bart Appelman, in recognition of their work on their onshore automatic vacuum field joint blasting.

Pictured: Jean Claude Van de Wiele, Johan van Wassenhove, Bart Appelman, Luc Hoppenbrouwers and Michael Hiam

The Adjudication Committee selected this entry because:

- the new tool improves HSE conditions for workers in the field
- it is a development coming from a contractor and a manufacturer working together
- it is an example of technology transfer from the offshore to the onshore industry.

To review a summary of their entry, please click here

In recognition of its members' commitment to new technologies IPLOCA also named **two runners-up** (in alphabetical order):

Herrenknecht AG, represented by Alexander Mallaney, for their new drilling tools increasing performance of HDD.
To review a summary of their entry, please click here

PipeSak, represented by Geoff Connors, for their PipePillo Structural Pipeline Pillow, a simple and very creative method.
To review a summary of their entries, please click here

IPLOCA would like to congratulate all those who participated in the 2015 New Technologies Award sponsored by BP for their commitment in this field. We encourage continuing efforts and applications for the next New Technologies Award.