



IPLOCA SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Mike King

Pipeline Discipline Lead

E & P Projects and Engineering Group

BP America Inc.

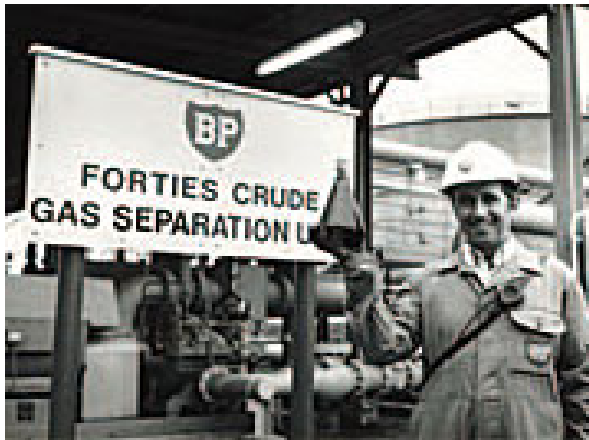




IPLOCA SAN FRANCISCO



Technology Snapshots



1970: BP discovers the giant Forties oil field in the North Sea. The world's largest submarine pipeline to date is laid to bring the oil ashore.

1911-13: The Anglo-Persian Oil Company (APOC) builds a 222 kilometre pipeline.



2006: The BP-operated Baku-Tbilisi-Ceyhan pipeline comes into operation.

1977: The Trans Alaskan Pipeline System, in which BP is a major partner, starts up.





IPLOCA SAN FRANCISCO



What does this teach us?

1. We always have and we continue to **operate at frontiers**
2. We are expert at **integrating** a breadth of technologies from different sources
3. We exercise '**selective leadership**' in technology
4. We know how to **collaborate** with a wide range of partners
5. It takes great **people** to succeed





IPLOCA SAN FRANCISCO



Future Trends for Energy Technology

1. **Information technology continues to change the way in which we operate and is enhancing our ability to learn.**
2. **Oil and gas companies are making equity investments in cleantech start-up companies, and creating joint ventures with companies in this sector.**
3. **New scientific discoveries, generated within and outside our industry, continue to be integrated rapidly where relevant.**
4. **Opportunities are emerging at the intersection between previously disconnected fields of science.**





IPLOCA SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

- First year of the Award: 2001
- Frequency of the Award: every 2 year
- Concept awarded: **significant contributions to innovation in our industry.**



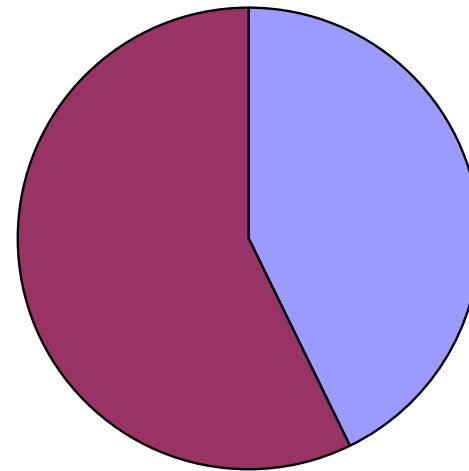
IPLOCA SAN FRANCISCO



IPLOCA New Technologies Award sponsored by BP

Entries:

- 10 in 2001
- 09 in 2003
- 06 in 2005
- 07 in 2007
- **14 in 2009**



■ 6 Members

■ 8 Associate Members



IPLOCA SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Roberto Castelli

Chairman of the New Technologies Committee





IPLOCA
SAN FRANCISCO



Caterpillar

Caterpillar D7E Track-type Tractor

CPP China Petroleum Pipeline Bureau

Fabrication of Hot induction bends from X80 high strength steel

Optical fiber pipeline security forewarning system

Denys

FRIEX – New friction welding system for pipelines



IPLOCA
SAN FRANCISCO



Herrenknecht AG

Direct Pipe – One-Pass Pipeline Installation in all Geologies

Lastechnik Europa BV (two entries)

Red Ram – Back to round internal line-up clamp
Hot Tap automated welding system

Laurini Officine Meccaniche

New Laurini Pipelayer



IPLOCA
SAN FRANCISCO



Ledcor Pipeline Limited (two entries)

Cab Riser

Highwalker

Ludescher Cablecrane Systems GmbH

New Carriage GSK 160 for cablecrane systems

NGS-Orgproecteconomica-Ecmos

A new piece of equipment, tool or construction supply



IPLOCA

SAN FRANCISCO



Stopaq Europe B.V.

“When hard is not always tough enough”

Volvo Construction Equipment

Volvo PL4608 Pipelayer



IPLOCA

SAN FRANCISCO



Adjudication of the Award

By five members of the IPLOCA Board of Directors

Judging Process

A series of yes/no questions

- Is it a new technological breakthrough?
- Is it a new Engineering breakthrough?
- Is it a new piece of equipment?
- Is it a new tool?
- Is it a new construction supply?
- Is it a new or revised construction practice?
- Is it a new type of permanent material?



IPLOCA

SAN FRANCISCO



Adjudication of the Award

Data to support the basic criteria:

- Has it been successfully used on a major project in the field?
- Is it in such significant development stage to warrant an Award?



IPLOCA SAN FRANCISCO



Adjudication of the Award

Scoring the Entry (on a scale of 1-5):

- Does it provide the industry something it did not have before?
- Is it an identifiable step forward in the technology/construction process?
- Does it improve safety and/or environmental protection?
- Does it overcome a current problem area?
- Does it provide a reason to change the manner in which pipelines are laid?
- Does it reduce costs?



IPLOCA
SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Runners-up

Caterpillar

Caterpillar D7E Track-type Tractor



IPLOCA
SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Runners-up

Laurini Officine Meccaniche
New Laurini Pipelayer



IPLOCA
SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Runners-up

Ludescher Cablecrane Systems GmbH
New Carriage GSK 160 for cablecrane systems



IPLOCA
SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Runners-up

Volvo Construction Equipment

Volvo PL4608 Pipelayer



IPLOCA
SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

Winner

Herrenknecht AG

Direct Pipe:

One-Pass Pipeline Installation in all Geologies



IPLOCA
SAN FRANCISCO



**2009 IPLOCA New Technologies Award
sponsored by BP**

Congratulations!





IPLOCA SAN FRANCISCO



2009 IPLOCA New Technologies Award sponsored by BP

The screenshot shows the IPLOCA website interface. The header includes the IPLOCA logo and the text 'IPLOCA INTERNATIONAL PIPELINE & OFFSHORE CONTRACTORS ASSOCIATION'. The main content area is titled '2009 IPLOCA NEW TECHNOLOGIES AWARD WINNERS'. It contains the following text:

The 2009 IPLOCA New Technologies Award sponsored by BP was given during the annual Convention held in San Francisco in recognition of a significant achievement in this area.

Mike King of BP made the presentation and addressed the members of the audience about New Technologies. To view his presentation, please click here.

The committee decided to make the Award to **Herrenknecht AG**, in recognition of their great work on the Direct Pipe .

To view Herrenknecht's presentation, click here.

In recognition of its members' commitment to new technologies IPLOCA named

The left sidebar contains a 'NAVIGATION' menu with links to PHOTOS, LOGIN, ADMIN SECTION, GROUP EMAIL ADMIN, FORUM ADMINISTRATION, ABOUT IPLOCA, BOARD OF DIRECTORS, MEMBERSHIP CENTRE, HSE, HSE COMMITTEE, HEALTH AND SAFETY, THE ENVIRONMENT, and NEW TECHNOLOGIES. The right sidebar includes a SEARCH box, NEW MEMBERS section, and a 2009 CONVENTION section.

Presentations soon available at
www.iploca.com