



The International Pipe Line & Offshore Contractors Association

Activities & Initiatives Update

www.iploca.com

Langfang, 13 Apr 2016



IPLOCA

INTERNATIONAL PIPE LINE
& OFFSHORE CONTRACTORS ASSOCIATION



IPLOCA Over The Years

Past

Present



1966 – IPLCA
founded in
Paris as the
International
group of PLCA

1976 – Became
fully independent
after an increase
in membership

1988 – IPLCA
extended to
include Offshore
companies
becoming IPLOCA

1992 – IPLOCA
established its
offices in Ghent,
Belgium

2005 – IPLOCA
moved to Geneva
Switzerland





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Membership

Regular
Members

Major Onshore & Offshore
Contractors & Subcontractors

Associate
Members

Vital Support Services, Equipment,
Materials, Tools, and Supplies

Academic
Members

Academic Pipeline Institutions

Honorary
Members

Personalities of the Industry and
great contributors to IPLOCA



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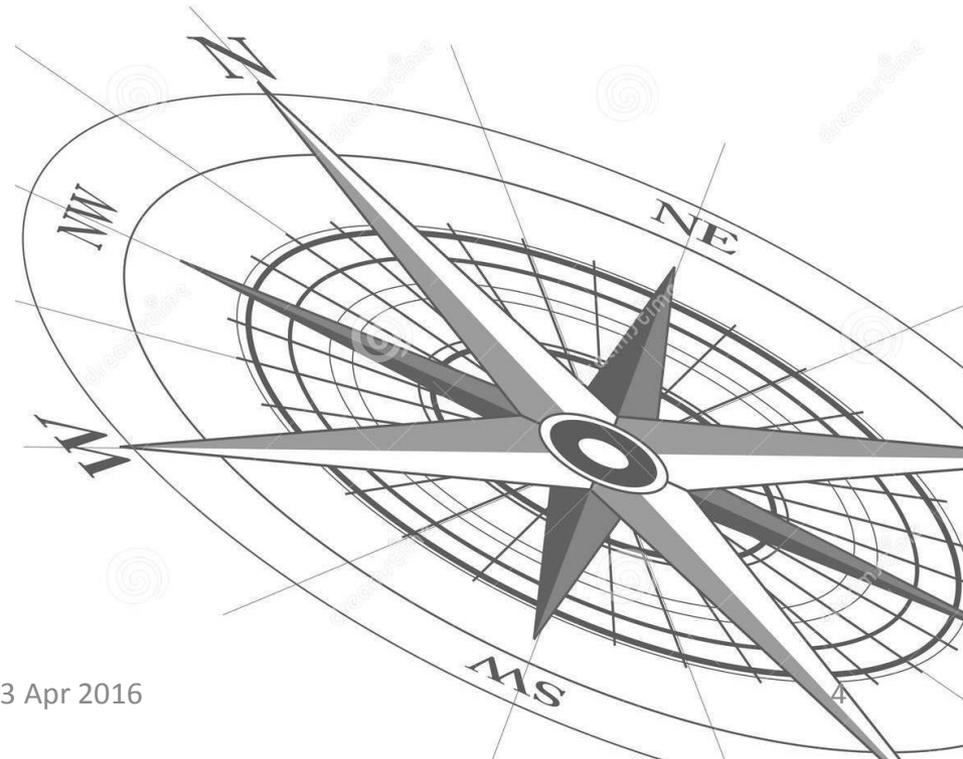
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Geographical Areas

Board of Directors: up to 25 Directors representing the members at the Board are elected annually:

- America North
- Europe Central
- Europe Eastern
- Europe Mediterranean
- Europe Northwest
- Far East
- Latin America
- Middle East & Africa
- Associate Members



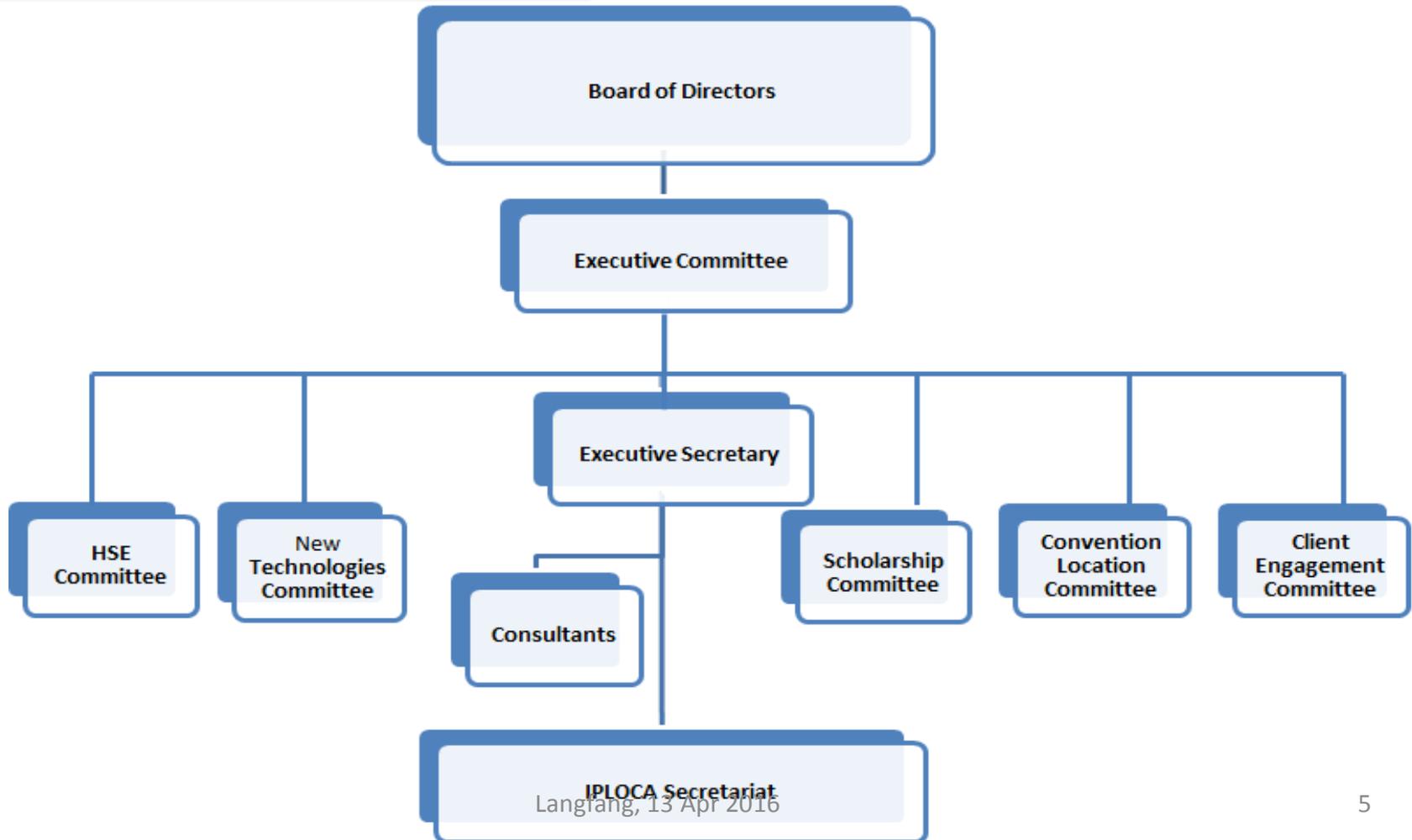


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IPLOCA Leadership





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Mission: IPLOCA's mission is 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.

**Committee
Initiatives**

Awards

**2 Pillars
to provide
value**

**Annual
Convention**

**Regional
Meetings**

Value to members and recognition by key
Oil & Gas Stakeholders

Networking & Social Engagement



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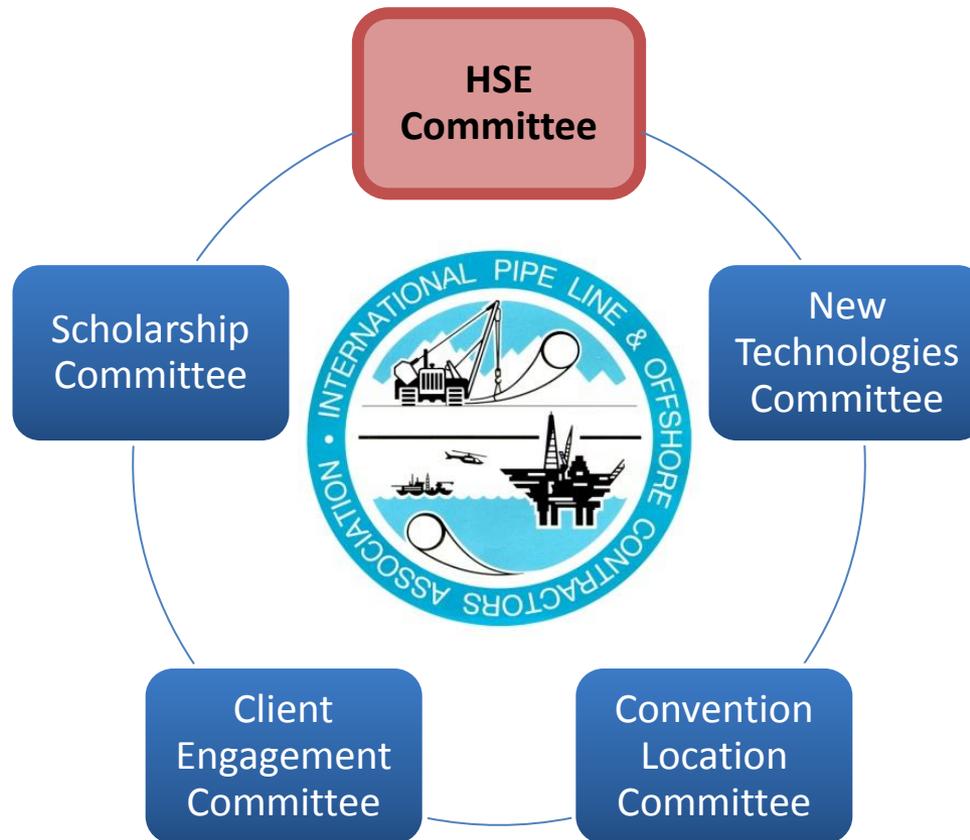


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Committee Initiatives & Awards



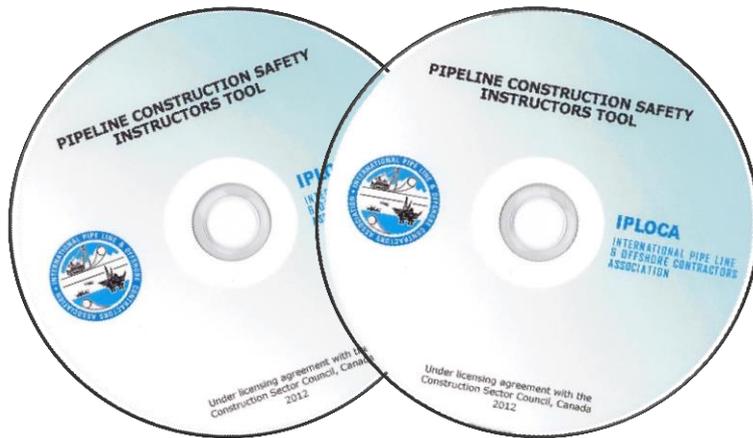


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HSE E-Learning Program



- Training tool for all workers
- Specifically developed for Pipelines
- Includes images and videos
- Adapted to all countries
- Created with the support of Canada
- Can be uploaded on Intranets





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Health & Safety Statistic Annual Reports

Overall Results

IPLOCA has been collecting health and safety statistics from member companies since 1999. We continue to strive to meet our objective of reaching 100% returns from our Regular Members which will result, obviously, in our being able to communicate more representative data.

Fatalities

Year	Fatalities
2008	23
2009	21
2010	19
2011	26
2012	21
2013	11

Fatality Frequency Rate (per million worked hours)

Year	Rate
2008	0.031
2009	0.027
2010	0.028
2011	0.042
2012	0.034
2013	0.017

Lost Time Injury Cases (LTI)

Year	LTI
2008	869
2009	864
2010	782
2011	816
2012	1,208
2013	782

LTI Frequency Rate (per million worked hours)

Year	Rate
2008	1.19
2009	1.09
2010	1.10
2011	1.40
2012	1.88
2013	1.21

Lost Work Days (LWD)

Year	LWD
2008	15,579
2009	24,002
2010	16,987
2011	25,216
2012	31,206
2013	18,759

LWD Severity Rate (per million worked hours)

Year	Rate
2008	21.30
2009	31.83
2010	23.17
2011	42.56
2012	49.98
2013	38.96

Total Recordable Incident Rate (TRIR)

Year	TRIR
2008	3.78
2009	4.46
2010	4.30
2011	6.96
2012	7.48
2013	2.53

TRIR: number of TRIR x 1,000,000 / total worked hours

Definitions for Spill of LTI

- Involving falls**
An incident as a direct result of working at height (higher than waist level above the surrounding grade level or surface, crane, scaffolding, etc.) but not limited to falls as a direct result of the erection, dismantling or use of any type of scaffolding, including the use of fixed and moving ladders.
- Excavation/earth collapse**
An incident as a direct result of any kind of earth moving operation, be it by hand or with machines or explosives.
- Confined spaces**
Accident resulting from a limited working space.
- Impact with construction equipment**
An incident as a direct result of operating a piece of construction equipment or machinery including, but not limited to, pumps, compressors, mixers, turbines, blenders, earth moving equipment, etc.
- Working operations**
Accident occurring as a consequence of welding operations, including but not limited to arc burn.
- Hazardous substances**
Accident occurring when processing, handling or transportation of a hazardous or toxic substance. Accidents occurring when processing, handling or transportation of a hazardous or toxic substance.
- Other**
Accident that cannot be logically classified into any of the categories above.

Road traffic incident
An incident involving a road traffic incident (accident) is any incident involving more moving vehicles which results in death or injury.

Operations
Operations resulting from the use of a lifting machine, but not limited to falling object, collision with breaking of machinery, etc.

Height / scaffolding
Direct result of working at height (higher than waist level above the surrounding grade level or surface, scaffolding, ladders etc.

Use of hand tools
Direct result of the use of hand tools and equipment, including but not limited to powered or non-powered hand-held saw, wrench, grinder, hammer, chisel, drill machine, blow torch, etc.

Restricted Work Cases (RWC)

Year	RWC
2008	2,777
2009	3,058
2010	305
2011	305
2012	305
2013	305

RWC Frequency Rate (per million worked hours)

Year	Rate
2008	0.76
2009	0.80
2010	0.79
2011	11.58
2012	11.88
2013	3.09

Medical Treatment Cases (MTC) Not including First Aid

Year	MTC
2008	2,206
2009	2,809
2010	3,197
2011	3,078
2012	2,965
2013	1,207

MTC Frequency Rate (per million worked hours)

Year	Rate
2008	3.15
2009	4.30
2010	4.62
2011	5.26
2012	4.75
2013	1.90

Road Traffic Incidents / Accidents

Year	Incidents
2008	973
2009	728
2010	802
2011	773
2012	585
2013	608

RTA Frequency Rate (per million worked hours)

Year	Rate
2008	1.34
2009	0.90
2010	1.01
2011	1.24
2012	0.86
2013	1.01

Near Misses

Year	Near Misses
2008	6,109
2009	24,868
2010	20,868
2011	11,711
2012	4,897
2013	7,088

Near Miss Frequency Rate (per million worked hours)

Year	Rate
2008	8.95
2009	35.25
2010	30.25
2011	16.51
2012	6.97
2013	10.91

HSE Training Hours

Year	Hours
2008	7,784,841
2009	8,838,161
2010	11,914,942
2011	10,838,749
2012	8,884,430
2013	4,977,801

HSE Training Frequency Rate (per million worked hours)

Year	Rate
2008	10.68
2009	12.00
2010	16.35
2011	14.85
2012	12.00
2013	6.30

Near Misses Frequency Rate

Year	Rate
2008	8.95
2009	35.25
2010	30.25
2011	16.51
2012	6.97
2013	10.91

Disclaimer: Every effort has been made to ensure the accuracy of the information contained in this publication. Neither IPLOCA nor any of its members, past, present or future, warrants to account for all types of negligence, assume liability for any consequences or unforeseen use made thereof, which liability is hereby excluded. Consequently, users use it at their own risk and at their own expense. Users must agree to the terms of this disclaimer. The report is compiled to inform any subsequent reports of such terms.



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Environmental Statistics Annual Reports



2013 IPLOCA Environmental Statistics Report

Message from the HSE Committee

The IPLOCA HSE Committee has reviewed carefully the 2013 Environmental statistics received from members. We are now in the 4th year of submission and the rate of response remains high at 70% of Regular Members, showing a stabilisation from last year. The HSE Committee will continue its actions to try and obtain a higher rate of return, in order to provide more valuable information to all members.

Statistics received show an increasing number of companies using an EMS, with a record rate of 86%. This, together with the very interesting large panel of environmental initiatives, is extremely encouraging and shows that our industry is more and more actively engaged in the preservation of our environment.

The goal of this form is to respond to growing worldwide trends in environmental accountability. IPLOCA's hope is that this form will serve members who are already active in the environmental assessment domain, and serve as an example to those who have yet to undertake any such action.

We strongly encourage all Regular Members and Associate Members who have filed construction activities to provide this information so that the entire membership can benefit from the aggregated information.

Introduction

With members in more than 40 countries, IPLOCA is proud to represent some 255 of the key players in the onshore and offshore pipeline construction industry worldwide.

IPLOCA recognises the pipeline industry's responsibility to the community regarding social and environmental protection and is committed to actively promoting the adoption of all practicable measures to ensure that pipeline planning, engineering and construction are conducted efficiently in a sustainable, social and environmentally responsible manner.

IPLOCA is always looking at new initiatives and established the Environmental Statistics Return Form in 2010.

Number of Submissions

Year	Number of Submissions
2010	69
2011	68
2012	68
2013	87

The 2013 IPLOCA Environmental statistics were derived from data provided by 62 Regular Members (70% of total Regular Membership), and 5 Associate Members.

Worked Hours (inclusive of overtime)

Year	Worked Hours (in millions)
2010	420
2013	675

The number of hours is present in the work force employment, plus overtime. This does not include personal offices staff.

Environmental Management Systems

Application of an EMS by IPLOCA Members

Year	Yes	No
2010	77%	23%
2013	86%	14%

A high adoption rate of EMS's exists within the IPLOCA membership.

ISO 14001 certified IPLOCA Members

Year	Yes	No
2010	20%	80%
2013	78%	22%

The ISO 14001 environmental management system certification has a 78% adoption rate - clearly a leading certification in the pipeline industry.

CO₂ Emissions

Calculation of CO₂ Emissions

Year	Yes	No
2010	36%	64%
2013	82%	18%

38% of the members choose to use CO₂ emissions as an indicator of their environmental performance, and 45% choose to apply a carbon emission reduction policy.

Application of a Carbon Emission Reduction Policy

Year	Yes	No
2010	40%	60%
2013	80%	20%

Environmental Incidents

(Per million worked hours)

Year	Liquid release	Waste disposal	Air release	Other environmental incidents
2010	0.04	0.01	0.01	0.01
2011	0.07	0.01	0.01	0.01
2012	0.23	0.01	0.01	0.01
2013	0.05	0.01	0.01	0.01

For complete details on classification of incidents, please visit our website: www.iploca.com

Major vs. Minor Incidents

Category	Major	Minor
Liquid release	4%	96%
Waste disposal	2%	98%
Air release	2%	98%
Other environmental incidents	2%	98%



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A black and white photograph of a person's hands holding a white rectangular sign. The sign has a black border and the word 'WORKSHOP' written in a bold, hand-drawn, black font. The person's face is blurred in the background.

WORKSHOP



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Workshop: Safety assessment
efficiency

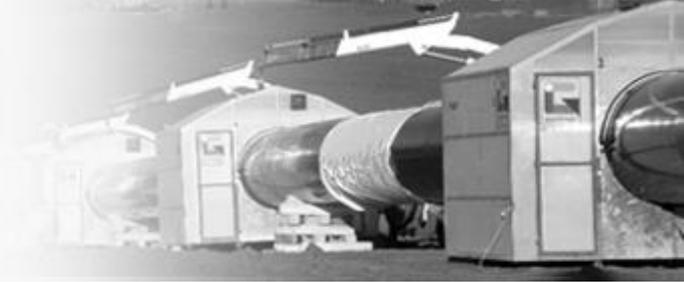
One day
immersion
23 June 2016

- Targeted to all Safety Managers and executives of members
- Clients' specialists will also attend
- International expert speakers and facilitators



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IPLOCA HSE AWARDS

Giving “value” to our members

- Rewarding those members who are “Leading by example”
- Sharing with all our members all these initiatives
- Helping to identify “what else could be done



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Health & Safety Award sponsored
by Chevron



- Annual Award
- Rewarding members who submit innovative systems or initiatives.
- IPLOCA HSE committee reviews entries, and designates winner and runners up
- Entries of the winners are published in our website www.iploca.com



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Environmental Award sponsored
by Shell



- Every Alternate Year Award: 2008 - 2010 – 2012 – 2014 – 2016..
- Rewarding members who submit innovative systems or initiatives
- IPLOCA HSE committee reviews entries, and designates winner and runners up
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Corporate Social Responsibility
Award sponsored by Total



TOTAL



- Every Alternate Year Award: 2011 – 2013 – 2015...
- Rewarding creative initiatives with large community impact with small investment
- IPLOCA HSE committee reviews entries, and designates winner and runners up
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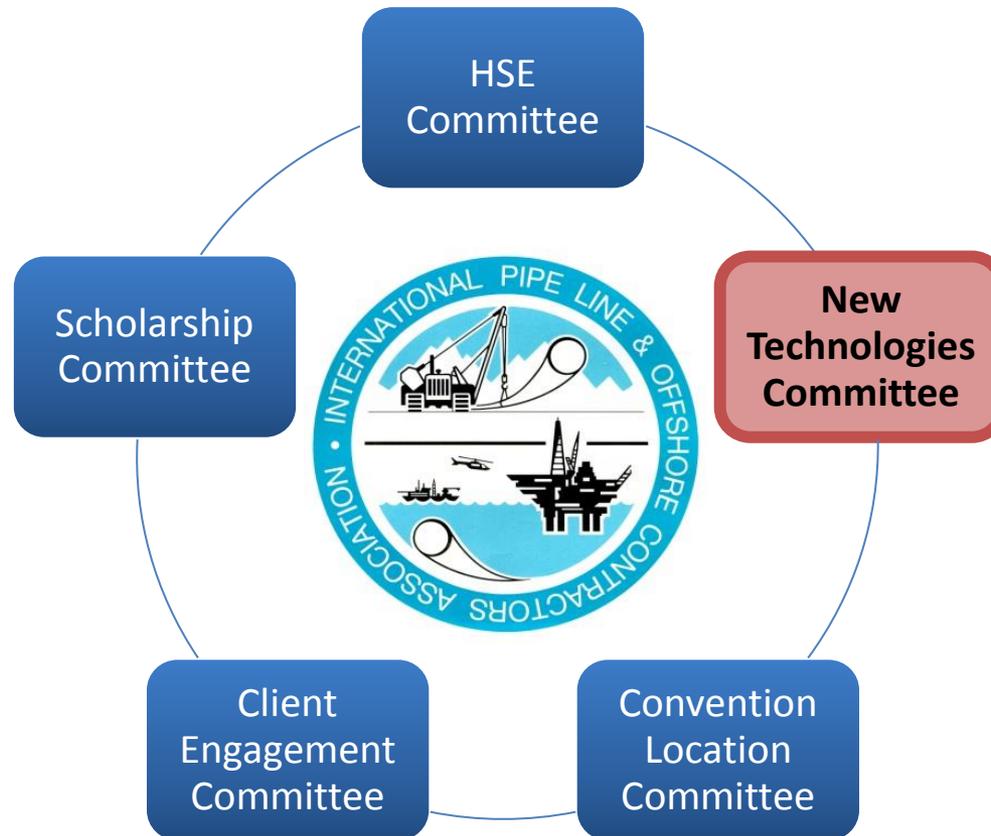


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Committee Initiatives & Awards





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Novel Construction Initiative

Mission: To stimulate innovation in the technology and processes required for execution of pipeline projects by engaging all contributors to the pipeline construction supply chain.

Next Fall Session:
4 - 5 November 2015
Crowne Plaza
Geneva, Switzerland





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NOVEL CONSTRUCTION SESSIONS

An “open forum” to stimulate innovation

- Members and non-members present their new technology
- Work groups continue to develop “The Road to Success”
- Research projects continue to be selected and co-funded



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The Road to Success

Contents

VOL 1

1. Introduction
2. Development Phases of a Pipeline Project
3. The Baseline of a Construction Contracts
4. Dealing with risks in pipeline projects
5. Planning and Design
6. Earthworks
7. Crossings

VOL 2

1. Logistics
2. Welding
3. Non destructive tests
4. Pipeline protection systems
5. Pipelines and the Environment
6. New trends and Innovation



1st Edition: September 2009
2nd and 3rd Edition: September 2011 & 2013
4th Edition being prepared for 2016



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New Technologies Award
sponsored by BP



- Every Alternate Year Award: 2009 - 2011 – 2013 – 2015...
- Members submit company initiatives, programs etc.
- IPLOCA New Technologies committee reviews entries, and designates winner and runner ups
- Entries of the winners are published in our website www.iploca.com

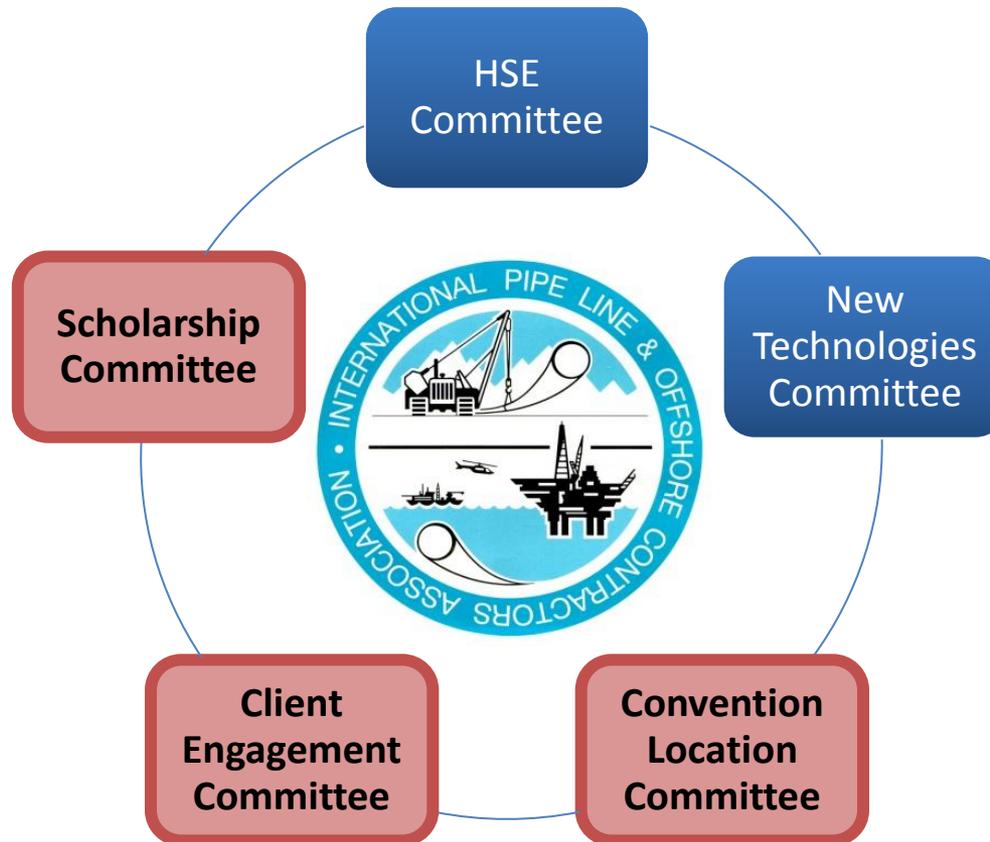


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Committee Initiatives & Awards





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New Committees

New Committees

- Client Engagement Committee: “Corresponding members”
- Scholarships Committee: Scholarship America (24 awards)
- Convention Location Committee: Paris → Mexico → London



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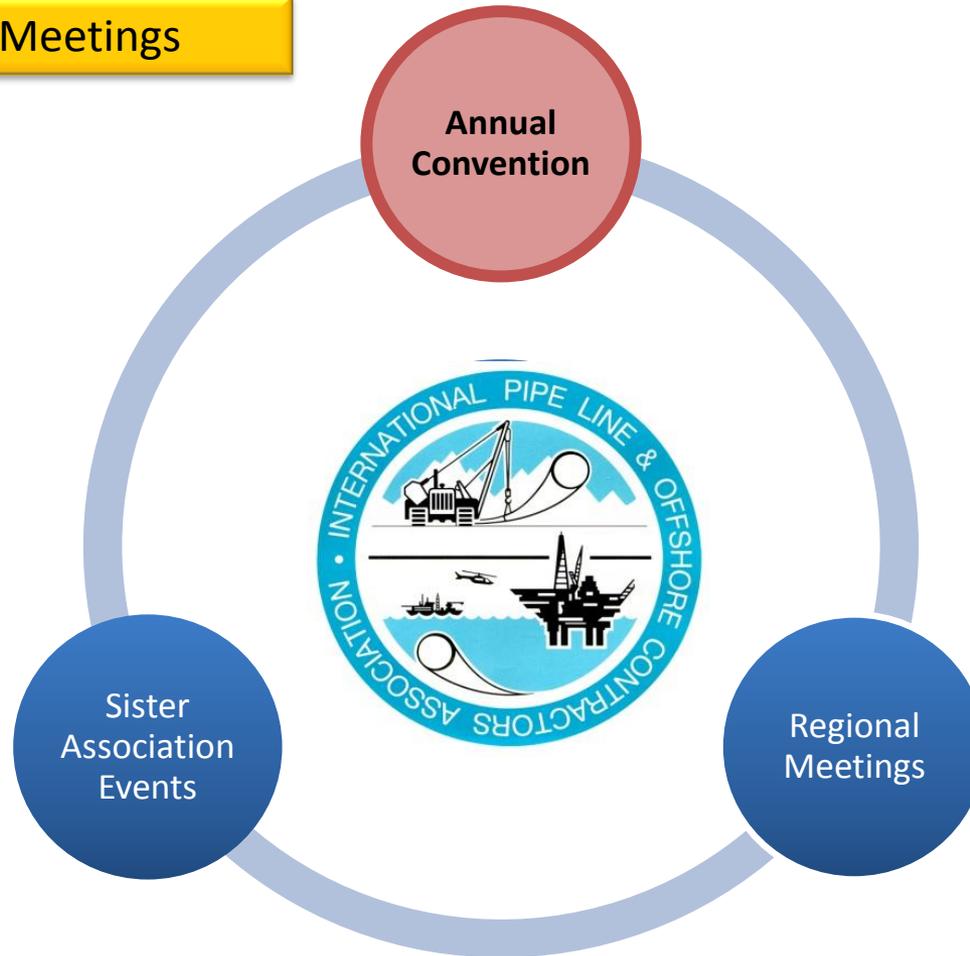


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Convention and Meetings





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Annual Convention



Thursday	1st Open General Meeting (with important speakers)
	CRC-Evans Luncheon
	Election Meetings
	Caterpillar Evening
Friday	Board Meeting
	Annual General Meeting
	2nd Open General Meeting (with important speakers)
	SPY Ladies Fashion show and Lunch
	The Membership Cocktails & Lunch
	Board Meeting
	Gulf Interstate Cocktail Reception
Final Banquet	



Abu Dhabi

Langfang, 13 Apr 2016



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Singapore 2015 Convention



**5-9 October
Fairmont
Singapore**



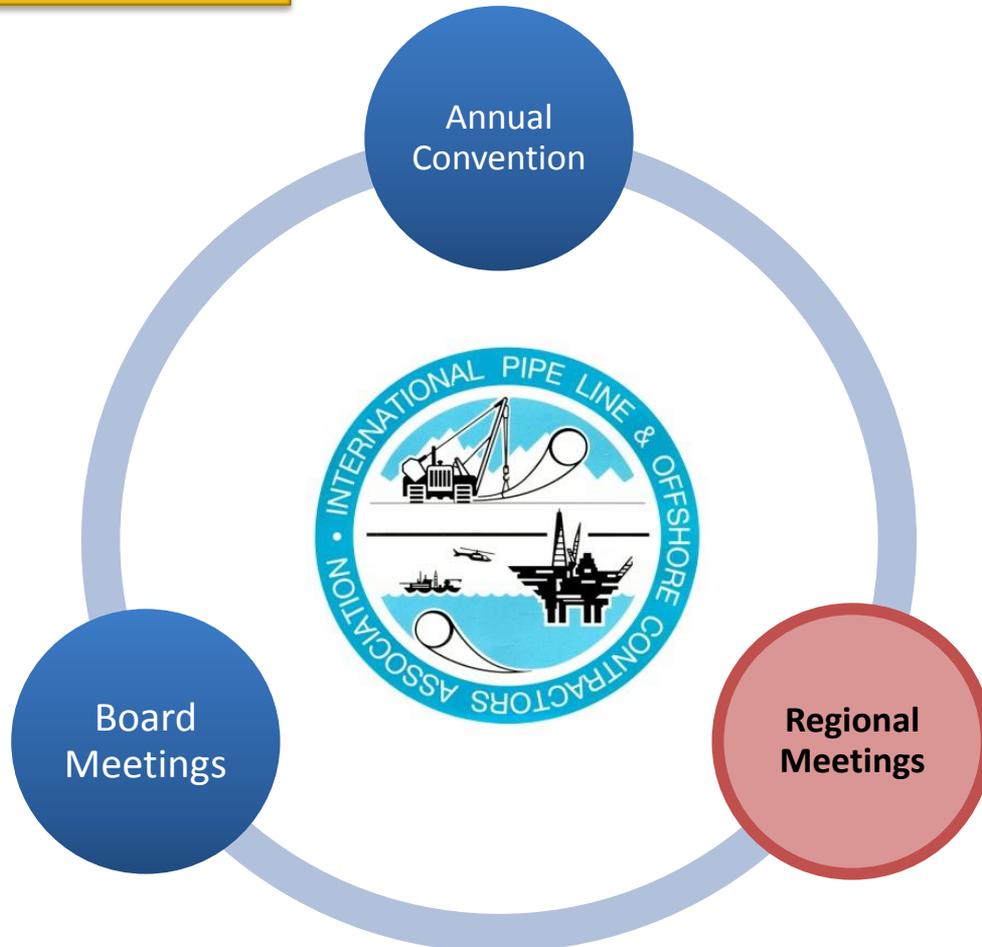


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Convention and Meetings





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Regional Meetings

Main Objectives

- to provide an update on IPLOCA's initiatives
- to give members a chance to express their ideas/needs for IPLOCA
- to establish a closer contact with clients
- to get updated on local projects being launched
- to discuss issues affecting our industry
- to open the doors to potential members



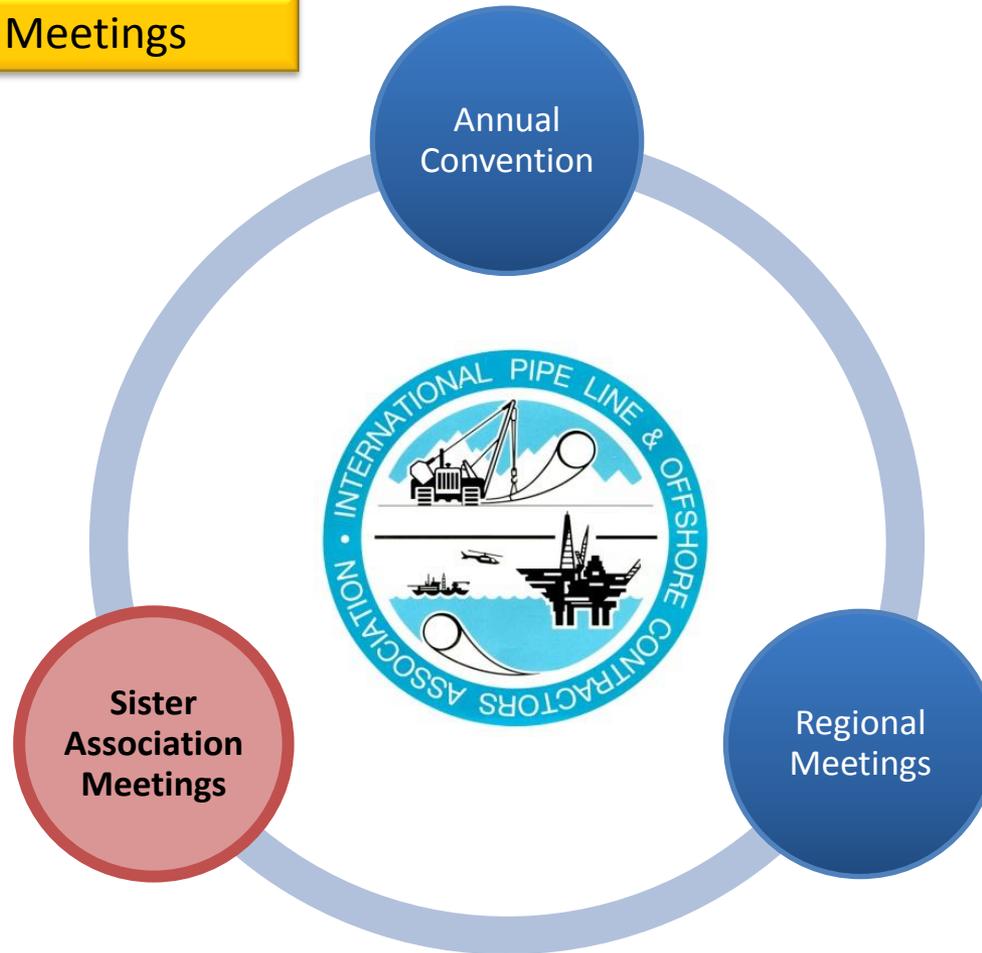


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Convention and Meetings





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Coordination with World Federation



The World Federation of Pipe Line Industry Associations (WFPIA) meets on a quarterly basis to discuss common issues that the member associations face, and bring to the table topics that will benefit the industry in general.



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Sister Association Meetings

Representing members all over the world

- Attending 4-5 annual meetings of our Sister Associations
- Meeting sister's leaders to discuss common subjects
- Offering a closer contact to all companies worldwide



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