

CONCLUSIONS



**PIANC Workshop
15-16th October 2009**

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PIANC WORKSHOP – Innovation in Navigation Lock Design –

15th & 17th October 2009
in Brussels
(25th Anniversary of PIANC Belgian Section)



Workshop 15-17 Oct 2009, Brussels

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Report n° 106 - 2009



Innovations
in
navigation
lock
design

PIANC
August 2009

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NEW LOCK INNOVATIVE TOPICS



- Hydraulics (filling and emptying),
- Operations and Maintenance,
- Environmental,
- Design (concrete, foundation, gate,...),
- Construction Modes,
- Equipments,
-
- Design concept : Cost-Effective, Reliable,.....

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WG29 - LOCK INNOVATIONS



Major changes in design since 1986 concern:

- **Maintenance and Operation aspects,**
- **New goals** at the conceptual design stages of a lock
 - ➔ **RELIABILITY , LIVE CYCLE COST, ...**
- **Renovation and rehabilitation** of existing locks are also key issues for the future.

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WG29: Lock Innovations



BODEFELD Jorg (DE)
BOS Jan (NL)
CLARKSON John (USA)
DALY Fabrice (Fr)
FERNANDEZ (Spain)
HIJDRA Arjan (NL)
HIVER Jean-Michel (BE)
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HUNTER Peter (UK)

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US, NL, BE, Fr, Brazil

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SARGHIUTA Radu (RO)
TARPEY Michael (USA, **YP)**
THORENZ Carsten (DE)
WONG Juan (Panama)
WU Peng (China)

Corresponding members:
China, France, Panama, UK

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And tomorrow ?

1) LOCK PROJECT REVIEWS

- ➔ Continue to feed a database with new project reviews (on voluntary base) –
- ➔ Stored on PIANC web site or ?
- ➔ For free ?
 - ➔ No, need to cover web site management expenses
 - ➔ Company can afford to be mentioned in this international database



And tomorrow ?

2) 2nd PIANC Int. Workshop on Locks

- ➔ When? Maybe 2 years
- ➔ Where ? Wait for proposal
- ➔ Need scientific/organisation board. Who is volunteer ? Maybe WG29 members ?
- ➔ Topics ? : Lock + Barrier & Navig weir

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INLAND NAVIGATION COMMISSION

**INNOVATIONS IN NAVIGATION
LOCK DESIGN**

2009

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