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"Navigation, ports, waterways"

"Navigation, ports, voies navigables"

# InCom Overview

## What can InCom do for you!

Ian White – Chairman of InCom

Smart Rivers

Louisville

18<sup>th</sup> September 2007



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## How can it help? What can it do for you!

- Development of waterways as part of a multi modal transport system
- EU Water Framework Directive
- Development of River Information Systems (RIS)
- Creation of a "Seamless Network"
- Working Groups
- Shared experience and networking



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## InCom Structure

- Chairperson – Ian White (*UK*)
- Secretary – Paul Pierron (*France*)
- Deals with all matters related to inland navigation
- Networks with other national organizations

Members from:

- |           |                   |                  |
|-----------|-------------------|------------------|
| ■ Austria | ■ France          | ■ Spain          |
| ■ Belgium | ■ Germany         | ■ Sweden         |
| ■ Canada  | ■ Italy           | ■ United Kingdom |
| ■ Finland | ■ The Netherlands | ■ United States  |



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## InCom Membership

**Austria** – Dr. Reinhard Pfliegl

**Belgium** – Mr. Philippe Rigo

**Canada** – Mr. Flavio D'Agnola

**Finland** – Mr. Risto Lang

**France** – Mr. Yves Morin; Mr. Paul Pierron

**Germany** – Mr. Michael Behrendt

**Italy** – Mr. Luca Crose

**The Netherlands** – Mr. Pieter van Ginnenken;

**Spain** – Mr. Francisco Esteben Lefler

**Sweden** – Mr. Kjell Jacobsson

**United Kingdom** – Mr. Ian White

**United States** – Mr. John Clarkson

**Rhine Commission** – Mr. Jean Marie Woehrling



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## Status of **Active** Working Groups - InCom

WG No.	Title	TOR	Set-Up	Draft Approved	Earliest Publication	Remarks
InCom 27	Guidelines for Environmental Impacts of Vessels	2003	2003 / 02	2007 / 05	2007	Length problem. Review by EnviCom.
InCom 28	Development of Automation and remote controls of riverworks	2003	2005 / 02	2007 / 03	2007	Good progress: reviewed report by March. Members should look for publicity. Length problem.
InCom 29	Innovations in Navigation Lock Design	2004 / 11	2006 / 02	2008 / 02	2008	Good progress. Meeting this year. (draft report ready)
InCom 30	Inventory of Inspection and Repair Techniques of Navigation Structures	2005 / 06	2006 / 10		2008	Good progress/input. Looking to improve membership of working group. Next meeting September 07 in Kentucky, USA.
InCom 31	Organization and management of river ports	2005 / 10	2006 / 10		2008	Meeting 2007/09 and 2007/02. Less technical, more organisationally structured. Members should look for publicity.
InCom 32	Performance indicators for inland waterways transport	2006 / 07	2007 / 09			USA kick-off, September 07. Membership!: difficult to gather people. National Sections should come up with strategy for pursuing them.



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## Guidelines to Reduce Environmental Impacts of Vessels InCom Working Group 27

**Status:** Started in 2003 – to be published 2007

**Members:** France, Germany, Italy, UK, USA

**TORs:** The objective of the working group is to collect, evaluate and develop a set of guidelines on methodologies available for quantifying physical effects at temporal and spatial scales pertinent to ecological endpoints and to recommend management guidelines. It is proposed that this Working Group be led by the INCOM and conducted jointly with MARCOM, RECCOM and ENVICOM.



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## Developments in Automation and the Remote Control of River Works InCom Working Group 28

**Status:** Started in 2004 – to be published 2007

**Members:** Belgium, Finland, France, Germany, The Netherlands, UK, USA

**TORs:** The aim is to organize an exchange of international experience and learning about automation of river works (dams, locks, mobile bridges, etc.) and the remote control of these facilities.



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## Innovation in Navigation Lock Design InCom Working Group 29

**Status:** Started in 2006 – in progress

**Members:** Belgium, Brazil, China, Finland, France, Germany, Panama, Romania, The Netherlands, Spain, UK, USA

**TORs:** The objective of the WG is to establish a comprehensive review (State of Art) of the modern technologies and findings of recent research used to design and build navigation locks since the last PIANC WG report was published in 1986. Recent projects have to be listed, reviewed and analyzed. Guidelines for studies at the design stage will be established. Maintenance and operational requirements will also be discussed. The WG's goal is not to condense (as an encyclopedia) all the available data within a single report but to provide a comprehensive list of all the available references. These references have to be analyzed, compared and criticized by the WG in order to give engineers, designers and authorities a reference guide allowing them to access relevant information to solve to their problems.



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## Inventory of Inspection / Repair Techniques of Navigation Structures InCom Working Group 30

**Status:** Started in 2006 – in progress

**Members:** Belgium, Finland, France, Germany, Japan, The Netherlands, Romania, USA, UK

**TORs:** The work will consist of collecting and compiling information from a variety of agencies and operators throughout the PIANC membership on the methods, tools, materials, and equipment that are used in the preservation and maintenance of these structures.



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## Organization and Management of River Ports InCom Working Group 31

**Status:** Started in 2006 – in progress

**Members:** Austria, Belgium, Brussels, France, Germany, Romania, The Netherlands, USA

**TORs:** The objective is to analyze the roles and missions at river ports around the world between public and private partners. This working group will collate the different practices and inform PIANC members about current state-of-the-practice in the organisation of "port systems". Lessons learned in this collective data will provide very practical information on evaluating effective port development related to river transport. It will, for example, give references for Port Authorities which wonder about their own involvement in fields as safety on the river, or ownership of logistic areas, etc. It will be also useful for private companies which are looking for new fields of development for them in the port area.



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## Performance Indicators for Inland Waterways Transport InCom Working Group 32

**Status:** Started in 2006 – inaugural meeting this week

**Members:** Austria, Germany, Belgium, Netherlands, France, Spain, USA

**TORs:** The objective of this working group is to set common definitions, standards, and measurements to encourage industry-wide adoption of harmonized performance indicators and best practices to improve performance within the inland navigation industry. This working group seeks to gather input from the entire logistics chain to define what are important expectations and metrics for performance on inland waterway systems.



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## Status of All Working Groups - InCom

ACTIVE	WG #	TITLE	STATUS	U.S. REPRESENTATIVES
	1	Economic Implications of Inland Waterway Development	PTC1 report of WG 1 - 1984	Howard Olson -- USACE, IWR
	2	Disposal and Land Dumping of Dredged Materials: Impact on the Environment	Replaced by No. 7	Paul Sorenson -- USACE, WES
	3	Risk Consideration when Determining Bank Protection Requirements	PTC1 Report of WG 3 - 1987	Alan Crowhurst -- River & Sea Gabions (London) Ltd.
	4	Guidelines for the Design and Construction of Flexible Revetments Incorporating Geotextiles for Inland Waterways	PTC1 Report of WG 4 - 1987	Max Lamb -- USACE, LMVD
	5	Container Transport with Inland Vessels	PTC1 Report of WG 5 - 1992	John Pisani -- US Maritime Administration
	6	Problems Created by Salt Water Infiltration	PTC1 Report of WG 6 - 1993	Christine Correale -- USACE, Wilmington
	7	Management of Dredged Material from Inland Waterways	PTC1 Report of WG 7 - 1990	Charles Hummer -- USACE, WES
	8	Automatic Management of Canalized Waterways and its Hydraulic Problems	PTC1 Report of WG 8 - 1990	Jack Niemi -- USACE retired
	9	Standardization of Inland Waterways Dimensions	PTC1 Report of WG 9 - 1990	Anatoly Hochstein -- LSU/GW Ports & Waterways Inst.
	10	Supervision and Control of Long Lateral Embankments	PTC1 Report of WG 10 - 1990	
	11	Analysis of Cost of Operating Vessels on Inland Waterways	PTC1 Report of WG 11 - 1991	Howard Olson -- USACE, IWR
	12	Reinforced Vegetative Bank Protections Using Geotextiles	PTC1 Report of WG 12 - 1996	Max Lamb -- USACE, LMVD
	13	Special Inland Waterway Craft	Terminated	Charles Lehman -- American Comm. Barge Line Co.
	14	Inland Waterway Vessels and Pollution	PTC1 Report of WG 14 - 1999	Barry Dyer -- American Comm. Barge Line Co.
	15	Barge Fleeting	Terminated	
	16	Standardization of Ships and Inland Waterways for River/Sea Navigation	PTC1 Report of WG 16 - 1996	
	17	Handling and Treatment of Contaminated Dredged Material (CDM) from Ports and Inland Waterways - Vols 1 & 2 on CD-ROM	PTC1 Report of WG 17 - 1996	Norman Francingues, Jr. -- USACE, WES
	18	Advanced and Automated Operations of Locks and Bridges	PTC1 Report of WG 18 - 1996	
	19	Ship Collisions Due to the Presence of Bridges	InCom report of WG 19 - 2001	Michael Knott -- Moffatt & Nichol Engineers
	20	Factors Involved in Standardising the Dimensions of Class Vb Inland Waterways (canals)	PTC1 Report of WG 20 - 1999	
	21	Economic Aspects of Inland Waterways	InCom report of WG 21 - 2005	David Grier -- USACE, IWR
	22	Safety in Inland Navigation	Organized Nov 1996	RADM Wm McMullen -- USMS (Retired)
	23	Technical and Economic Problems of Channel Icing	InCom report of WG 23 - 2004	Claude Strauser -- USACE
	24	Vessel Traffic and Transport Management in the Inland Waterways and Modern Information Systems	InCom report of WG 24 - 2002	J. Michael Sollosi -- US Coast Guard
	24C	Guidelines and Recommendations for River Information Services (RIS)	InCom report of WG 24 - 2004	
	25	Maintenance and Renovation of Navigation Infrastructure	InCom report of WG 25 - 2006	James McDonald -- USACE, WES James H. Blanchar -- USACE Rock Island (RET)
	26	Design of Movable Weirs and Storm Surge Barriers	Incom report of WG 26 - 2006	Dale Miller -- INCA Engineers, Inc. Dr. Richard Stocksill -- USACE, ERDC
Yes	27	Guidelines for Environmental Impacts of Vessels	Organized June 2002	Dr. Thomas Keevin -- USACE, St. Louis District
Yes	28	Developments in Automation and the Remote Control of River Works	Organized Feb 2004	James McCarville -- Port of Pittsburgh
Yes	29	Innovations in Navigation Lock Design	Organized Jul 2005	John Clarkson -- USACE, Huntington District Dale Miller -- INCA Engineers, Inc.
Yes	30	Inventory of Inspection and Repair Techniques of Navigation Structures	Organized Jan 2006	Robert Willis -- USACE, LRDOR Chad A. Linna -- USACE, LRDOR
Yes	31	Organization and Management of River Ports	Organized Sept 2006	Deidre McGowan -- Inland Rivers Ports & Terminals Jim McCarville -- Port of Pittsburgh
Yes	32	Performance Indicators for Inland Waterways Transport	Organized Sept 2006	William Harder -- USACE, LRDOR



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## What is in the pipeline!

- Innovative cargo vessel design
- Safety of inland navigation
- Alternative bank protection methods
- Fishpass design



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## For More Information On . . .

. . . PIANC, check out our website at:

<http://www.pianc-aipcn.org>

. . . Terms of Reference for the InCom Working Groups:

<http://www.pianc-aipcn.org/pianc/incom-wg.php>

. . . Joining the USA Section of PIANC:

<http://www.pianc.us>



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## So how can it help? What can it do for you?

- Dialogue
- Communications
- Networking
- Common Standards
- Shared ideas, time and cost saving
- Pragmatic solutions (no politics!)



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## Homework

- Do we need Smart Rivers?
- Where should it held?
- Is it US and EU based?
- Who should organise it?
- What does it need – Quality, Quality and Quality!
- Theme, topics and speakers