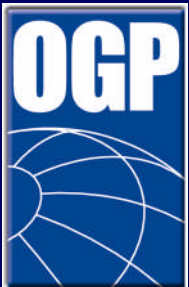


**Opening remarks
International & Automation Workshop,
London, 21-22 November 2006**

**Moving towards global I&A
standards for the benefit of
the oil and gas industry**

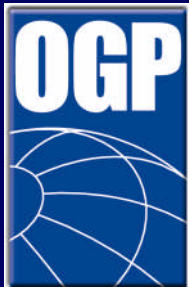
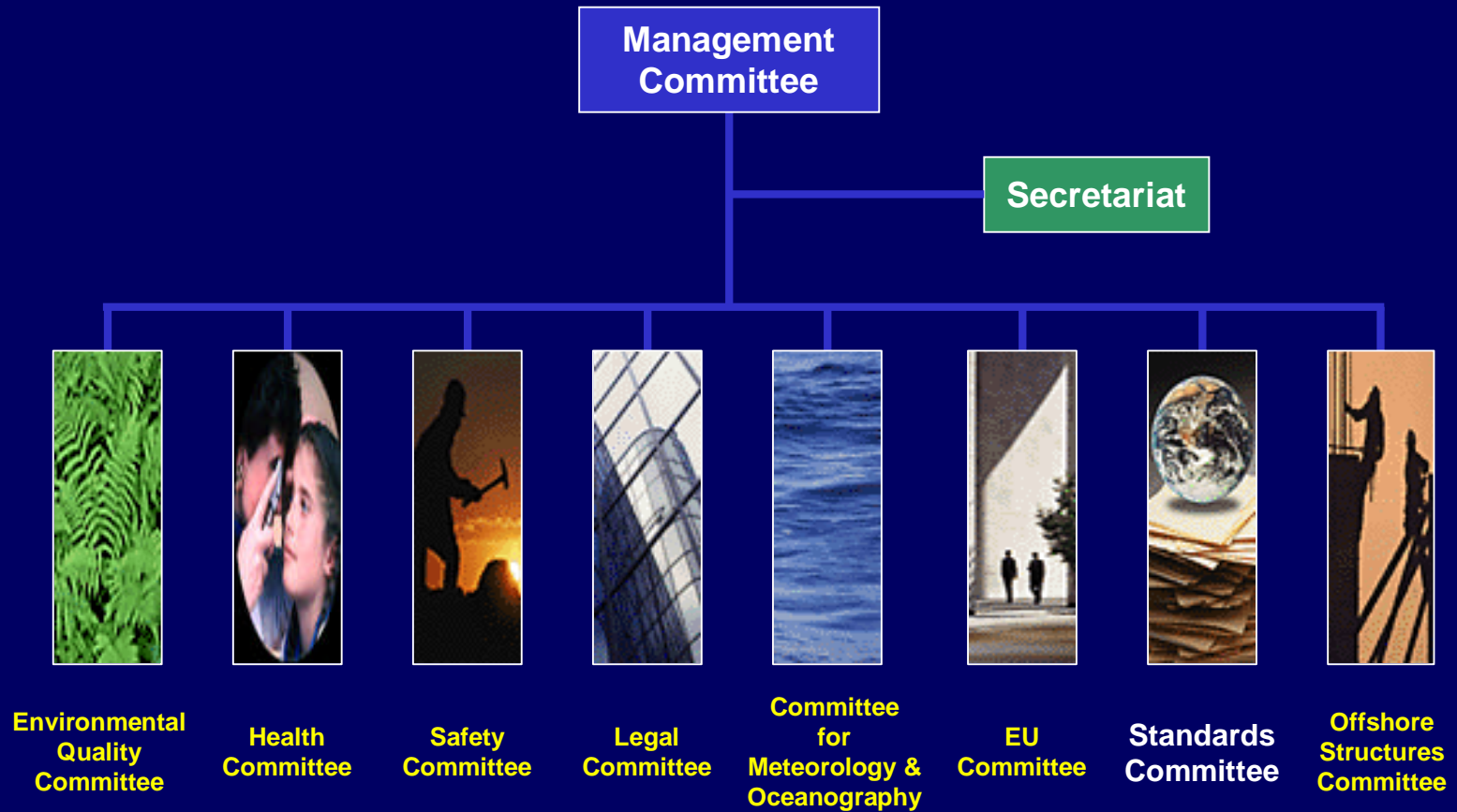


**Alf Reidar Johansen,
Hydro, Norway
Chairman, OGP Standards Committee**



HYDRO

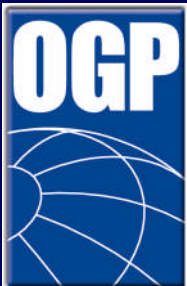
OGP Organisation



New committee added for Surveying & Positioning

OGP Standard Committee membership

Representative ¹⁾	Company	Country	Other functions
Wilson Barbosa de Oliveira	Petrobras	Brazil	
Anatoly Baryshnikov	Eni	Italy	CEN/TC12 AH8 chair
Gail Baxter	Marathon	USA	
Alf Reidar Johansen (Chair)	Hydro	Norway	
Greg Lever	Petro-Canada	Canada	
Alain Loppinet	CEN	France	CEN/TC12 Chair
Martin Maeso	Energy Institute	UK	
David Miller	API	USA	API Std. Progr. dir.
Saif S Al Naimi ⁴⁾	Qatar Petroleum	Qatar	
Nabil Nuaim	Saudi Aramco	Saudi Arabia	
Terry Qin ²⁾	CPSC	China	
Neil Reeve	Shell	Netherlands	IFAN President
Daniel Rioche	Total	France	
Alain Samne	ISO	Switzerland	Technical group mgr.
Cheryl Stark	BP	USA	ISO/TC67 Chair
Mike Swidzinski	ConocoPhillips	UK	
Richard Torgersen ³⁾	ExxonMobil	USA	
Ramon Torra	Repsol	Spain	

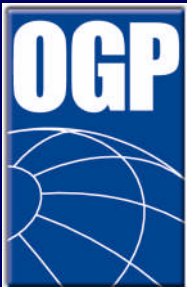


Notes: ¹⁾ Plus corresponding members from: BG, Chevron, Marathon, Mærsk and Premier. ²⁾ Alternate: Xiaohong Chen & Du Delin, CPSC ³⁾ Alternate: Nikolaus Gromes, EMI, Germany ⁴⁾ Alternate: Muayyad Ajjawi

OGP position on standards

The OGP has been a catalyst for change in industry 's approach to standards and strongly supports the internationalisation of key standards used by the Petroleum and Natural Gas Industries. OGP 's position on standards is:

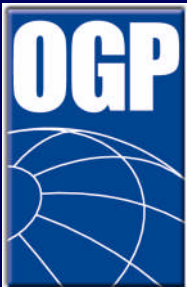
- development and use of ISO and IEC standards should be promoted
- development of standards should be based on a consensus of need
- “users” should be represented on standards work groups
- duplication of effort should be avoided
- standards should be simple and fit for purpose
- International standards should be used without modification wherever possible
- company specifications should be minimised and written, where possible, as functional requirements.



The adoption of this approach is expected to minimise barriers to trade, enable more efficient worldwide operations, and improve the technical integrity of equipment, materials, and offshore structures used by the Petroleum and Natural Gas Industries.

Why make global ISO and IEC standards?

- To facilitate global trade.
- Create common understanding.
- Accelerate product development and delivery.
- Global competition will reduce cost.
- ISO & IEC offer a global arena for standards work and global experts networking possibilities.
- Fair directives for the work.

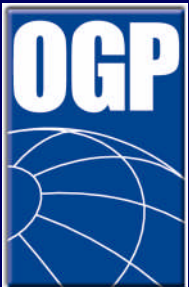


Why make global ISO and IEC standards?

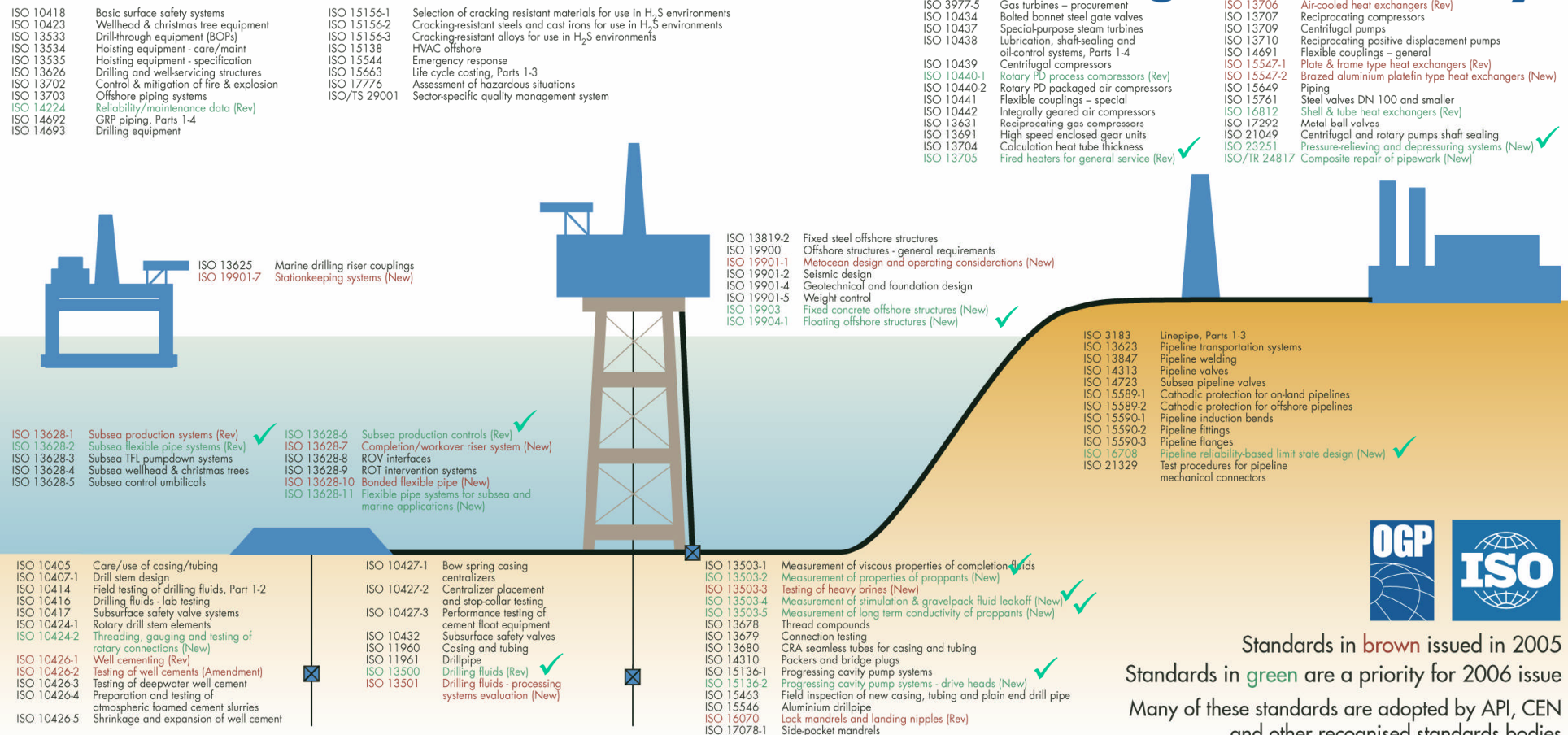
- Open meetings, voluntary participation
- Transfer international experience
- Maintain best practices, for improved solutions
- Voluntary use of ISO & IEC standards
- Reduce need for company & project specifications
- May support national regulations

Standards made for & made by the upstream industry

Therefore OGP takes an interest in standards



ISO Standards for use in the oil & gas industry



Standards in **brown** issued in 2005
 Standards in **green** are a priority for 2006 issue
 Many of these standards are adopted by API, CEN and other recognised standards bodies

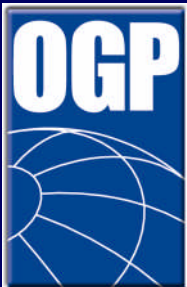


- ISO TC67 has published 130+ standards.
- API has adopted 49 of these as joint API / ISO standards.
- CEN has adopted 82 of these as joint European EN ISO standards.
- No Instrument & Automation standards on the map - yet



Catalogue of international standards used in the petroleum and natural gas industries

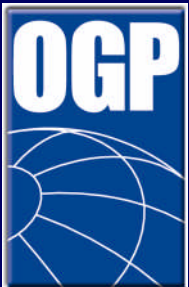
**Report No. 362
January 2005**



**Now available on OGP website
www.ogp.org.uk**

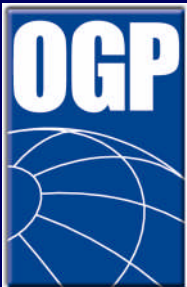
Where are we on Instrument & Automation standards?

- Ref. DRAFT report
- Some I&A specific standards identified – are there more?
 - API RP 520 Sizing, Selection, and Installation Of Pressure-Relieving Devices in Refineries, Part I and II.
 - IEC 61508 Functional safety of electrical/ electronic/ programmable electronic safety related systems.
 - IEC 61511 Functional safety - Safety instrumented systems for the process industry sector
 - OLF 070 Recommended guidelines for the application of IEC 61508 and IEC 61511 in the petroleum activities on the Norwegian continental shelf



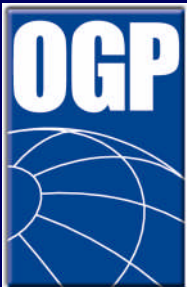
Where are we on Instrument & Automation standards?

- Ref. DRAFT report
- Lots of I&A non-specific standards identified – do we all use the same and are there more?
 - ANSI B16.10 Face-to-face and end-to-end dimensions of valves.
 - ANSI B16.36 Steel orifice flanges
 - ANSI PTC 19.3 Thermo wells
 - ANSI/FCI 70-2 Control valve seat leakage
 - API RP 14C Analysis, Design, Installation and Testing of Basic Surface Safety Systems on Offshore Production Platforms (or ISO 10418)
 - API RP 521 Guide for Pressure-Relieving and De-pressuring Systems (or ISO 23251 issued 2006)
 -and many more.....



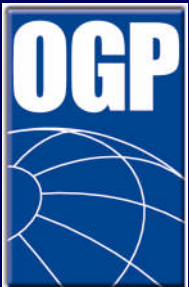
Where are we on Instrument & Automation standards?

- Ref. DRAFT report
- Some relevant I&A standards committees identified – are there more?
 - IEC TC65 Industrial-process measurement and control
 - API CRE Subcommittee on Instruments & Control Systems
 - ANSI ISA-SP84 Committee, Programmable Electronic System for Use in Safety Applications
 - Norsok Egl, EgIM & EgSCD
 - PIP Process Industry Practices



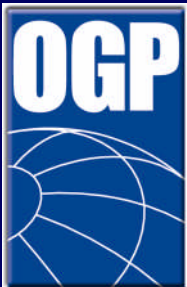
Where are we on Instrument & Automation standards?

- Ref. DRAFT report
- Identify I&A standards work ongoing
 - IEC TC65A revision of IEC 61508 and 61511
 - API CRE SICS revision of API RP 552, 553, 554 and 556
 - More.....
- Hydro specifications listed – include other companies specifications – harmonize?
- Make & prioritise proposals for potential actions, making an OGP guideline, international standards work, etc.



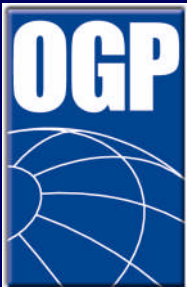
Where are we on Instrument & Automation standards?

- Amend & supplement DRAFT report to make it complete.
- Include input & results of this workshop
- Seek volunteers to assist.





**Global
Standards
Used Locally
Worldwide**



Purpose of the workshop

- To arrange for global networking of the instrument and automation specialists of OGP members and global suppliers.
- Present the existing company and project specifications and available standards related to the discipline.
- Discuss, propose and evaluate the needs for harmonisation of company specifications in international standards in this area for the benefit of the global petroleum industry.

