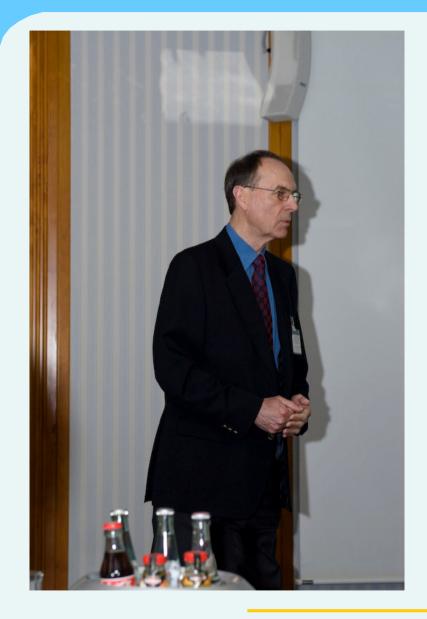
Report on CO-LaN Activities, 2011/2012

CAPE-OPEN Annual Meeting 2012 Lyon



In Memoriam – Peter Banks



- Originator of concept of interoperability via standard interfaces
 - **⇒** With Hans-Horst Mayer
- **♦** BP representative on OO-CAPE & OS-CAPE
- **♦ CAPE-OPEN Project**
 - **⇒** Leader, Unit Operation WP
 - **⇒** Project Steering Committee
- **♦ Global CAPE-OPEN**
 - ⇒ Leader, WP4. Integration with work processes
 - ⇒ Interoperability Task Force
 - **⇒ Project Management Committee**
- ♦ CO-LaN
 - **⇒** BP Representative
 - Secretary
- **♦ CAPE-OPEN Award 2007**



Membership

- ♦ September 2012
 - **⇒ 7 Full Members**
 - **⇒** 48 Suppliers
 - **⇒ 24 Academics**
 - **⇒** 3 Public & Federal Agencies
 - ⇒ 10 Individuals
- **♦** Total is unchanged from last year
- ♦ Management Board is promoting the benefits of full membership to a number of operating companies



Management Board

♦ Management Board

⇒ BP Malcolm Woodman President

⇒ Total Francis Luck Treasurer

⇒ Shell Global Solutions Richard Baur Secretary

⇒ Air Liquide Philippe Arpentinier

AkzoNobel Bert van Uitert

⇒ BASF Peter Mauer

⇒ Dow Thomas Koehler

Monthly conference calls, plus twice yearly physical meetings



SIG Management

♦ Thermodynamics Sergej Blagov, BASF

♦ Unit Richard Baur, Shell

Methods & Tools Bill Barrett, USA EPA

♦ Hydrodynamics Martin Gainville, IFPEN

♦ Refinery Reactors

Development & approval of standard is on-hold

But first implementation based on draft (see SIG report)

♦ Interoperability Support & CO-LaN Tools

⇒ Co-ordinated by CTO & Malcolm Woodman



Contracts & Licenses

- ♦ On-going contracts awarded by CO-LaN
 - ⇒ Michel Pons Technologie
 - CTO activities
 - ⇒ Michael Halloran
 - COLTT development & CO-LaN software
- **♦ Licenses**
 - ⇒ All major vendors have continued to provide licenses to CO-LaN
 - For testing & demonstration purposes
 - Any defects found in packages are kept confidential to the vendor, the CO-LaN contractors and the individual members of the Management Board
 - CO-LaN participates in Beta testing programmes where appropriate



User Priorities for CO Standards (Mission 1)

- Prototypes & examples
 - Current focus is on helping the developers of thermo components
- **♦ CO-LaN** initiated component development
 - **⇒** GAP (Petroleum Experts)
 - CO-LaN funded developments complete
 - Discussions with Petex are on-going (slowly)
 - ⇒ PHAST (DNV)
 - No progress made
- **♦** Future Directions
 - ⇒ Session held in Lyon, 19th September 2012
 - Management Board will use information from sessions to formulate strategy



Dissemination Actions (Mission 2)

- **♦ Conferences**
 - ⇒ CAPE-OPEN session at ECCE8
 - Good attendance and papers
 - ⇒ InMoTher 2012
 - Presentation by CTO and discussions
 - ⇒ All Russian Permanent Scientific Seminar
 - See next slide
 - **⇒ AIChE Annual meeting**
 - Pittsburgh, 30th October 2012
 - CAPE-OPEN session
 - Flowsheet monitoring & Object model discussion



All Russian Permanent Scientific Seminar

- ♦ Mathematical Models and Analysis and Optimal Synthesis Methods for Growing Pipe and Hydraulic Systems
- ♦ Elena Yudovina
 - ⇒ Piping Systems Research & Engineering Co
- **♦** Very positive response from attendees
- Management Board need to consider translating material into Russian!





Dissemination Actions (Mission 2) (cont.)

- **♦ Technical journals**
 - ⇒ 3 papers published in Computers & Chemical Engineering
- **♦** Forum
 - ⇒ Still active
- **♦ Newsletters**
 - ⇒ 3 published in last year
- **♦** Website



Maintenance of Interface Specification Standards (Mission 3)

- On-going
 - **⇒** Led by SIGs
 - Does not end!
- ♦ SIGs are responsible for Errata & Clarification documents, with approval for publication by the Management Board



Testing & Interoperability Facilitation (Mission 4)

- **♦** On-going interoperability testing by CTO
 - Prioritisation by Management Board
- **♦ CO-LaN Tools**
 - ⇒ COLTT
 - V2.1 release, August 2012
 - Open Source
 - Actively used in identifying issues in interfaces
 - Other software tools
 - Testers & wizards
 - No progress made in identifying a strategy for maintenance



Training Facilitation (Mission 5)

- **♦** "Developing CAPE-OPEN thermodynamic software components"
 - ⇒ Lyon, 19th September 2012
 - **⇒** Led by Jasper van Baten



Conclusions & Perspectives

- Significant work by SIGs to develop Errata & Clarification documents
- ◆ Interoperability testing is a major deliverable by the CTO
- Many individual examples of interoperability have been demonstrated at this meeting
- ♦ End-user understanding of benefits of use of components via CAPE-OPEN is essential for further uptake
- User priorities for the future were discussed in a session at this meeting
 - Management Board will analyse the feedback and propose the forward strategy



Comments, Questions?



Vote on status report for 2011

Approval by all Full Members present or represented

