

SIG THERMODYNAMICS Report 2006

**CO-LaN Annual Meeting
Cannes 9th March 2006**

Werner Drewitz BASF



SIG THERMO – Report 2006

◆ Topics

- ⇒ Members
- ⇒ Meetings
- ⇒ New charter
- ⇒ Achievements
- ⇒ Goals for 2006
- ⇒ Showcase Contributions

SIG THERMO - Members

- ◆ Michael Halloran AspenTech
 - ◆ Werner Drewitz GL since Oct BASF
 - ◆ Jens Schmidt GL till Sept Dow Chemical
 - ◆ Richard Szczepanski Infochem Computer Services
 - ◆ Matthias Pogodda Tech. Univ. Hamburg-Harburg
 - ◆ Alan Scott TUV NEL (PPDS)
 - ◆ Eric Hendriks Shell Global Solutions
 - ◆ Richard Baur
 - ◆ Michel Pons CTO CO-LaN
- new:
- ◆ Jasper van Baten AmsterChem
 - ◆ Suphat Watanasiri AspenTech
 - ◆ Jean-Charles de Hemptinne IFP



SIG THERMO - Phone Conf. & Meetings

◆ 5 Phone Conferences

⇒ Minutes on:

http://colan.org/Members-temp/index5_dateien/Meetings.htm

◆ London Meeting

⇒ 15 Dec 2005

⇒ Core team (RS, MH, AS, MiP)

⇒ Revision & Clarification of THERMO Interface V. 1.1

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SIG THERMO –New Charter

Charter:

- ◆ Develop, maintain and promote thermodynamic interface specifications

Key Responsibilities:

- ◆ Maintain and manage existing interface specifications
(revisions to improve design, performance/speed and robustness based on user input)
- ◆ Assess and prioritize on expansions of interface specifications
- ◆ Manage the development of the agreed upon expansions
- ◆ Help organizations to develop implementations of the Thermo standards

Deliverables for 2006:

- ◆ Version 1.1 of the Thermodynamic and Physical Properties interface specification
- ◆ Revised Petroleum Fractions interface specification for Refinery Reactor models



SIG THERMO – 2005 Achievements

- ◆ **Broad Testing of THERMO Standard V 1.0 and V 1.1**
- ◆ **Supporting organisations implementing Thermo 1.0**
- ◆ **Finalizing of THERMO Standard V 1.1**
- ◆ **Started to handle PetroFrac Matters**
 - ⇒ **Recovered old documents and prototype**

SIG THERMO – Goals for 2006

- ◆ **Before April 1 launch second Approval Process of Standard V 1.1 to CO community**
- ◆ **Commercial implementations of V 1.1**
 - ⇒ **Aspen HYSYS**
 - ⇒ **Multiflash**
 - ⇒ **...and many others**
- ◆ **Incorporation of Petroleum Interface in Thermo Standard**
 - ⇒ **In conjunction with proposed Refinery Reactor Model SIG**

Showcase Contributions

- ◆ **14:10 - 14:30**
Organization: CAPE-OPEN Interface to COSMO-RS
Presenter: Cosmologic GmbH
Frank Eckert
- ◆ **14:30 - 14:50**
Organization: SolidSim with Multiflash
Presenter: Technical University of Hamburg-Harburg
Matthias Pogodda
- ◆ **14:50 - 15:10**
Organization: Upgrade of ex. Software Interface to CO Standard
Presenter: TUV NEL Ltd
Alan Scott
- ◆ **15:10 - 15:30**
Organization: CO Thermo 1.1 Prop. Package using MultiFlash
Presenter: Infochem Computer Services Ltd.
Richard Szczepanski

