SIG THERMODYNAMICS
Report 2007

CO-LaN Annual Meeting
Heidelberg, 9 March 2007

Werner Drewitz   BASF

SIG THERMO – Report 2007

Topics:

- ♦ Members
- ♦ Meetings
- ♦ 2006 Deliverables
- ♦ 2006 Achievements
- ♦ Goals for 2007

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Members

♦	**Jasper van Baten**	**AmsterChem**
♦	**Suphat Watanasiri**	**AspenTech**
♦	**Werner Drewitz (GL)**	**BASF**
♦	**Ensheng Zhao**	**Honeywell Process Solutions**
♦	**Jean-Charles de Hemptinne**	**IFP**
♦	**Richard Szczepanski**	**Infochem Computer Services**
♦	**Eric Hendriks**	**Shell Global Solutions**
♦	**Matthias Pogodda**	**Tech. Univ. Hamburg-Harburg**
♦	**Alan Scott**	**TUV NEL (PPDS)**
♦	**Michel Pons**	**CTO CO-LaN**

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Phone Conf. & Meetings

♦ **5 Phone Conferences**

➲ **Apr, June, Sept, Nov, Jan**

➲ **Minutes on:**

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

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2006 Deliverables :

♦ **Version 1.1 of the Thermodynamic and Physical Properties interface specification**

♦ **Revised Petroleum Fractions interface specification for Refinery Reactor models**

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2006 Achievements I

Version 1.1 Interface Specs:

♦ **Testing and Finalizing of THERMO Standard V 1.1**

♦ **Official launching process started 17 July (RFC)**
  ⮕ **Accepted**
  ⮕ **Published on CO-LaN public area**
    • **Standard Specifications/v1.1/Business Interfaces**
  ⮕ **Document "errata and clarifications"**

♦ **Prosim Fortran 90 THERMO Lib wrapper - on member area**
  ⮕ **Reference**
  ⮕ **Run time lib**

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2006 Achievements II

Revised Petroleum Fractions Interface Specification:

♦ **Not achieved!**

♦ **Discussions on papers from SIG Refinery Reactors**
- ➲ **Additional methods needed for THERMO**
- ➲ **Not implemented in v 1.1**
- ➲ **Not finished – more input by SIG Ref React needed**

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Goals for 2007

♦ **More implementations of V 1.1**
  ➲ **Already in COCO, Multiflash …**
  ➲ **More expected: ASPEN**

♦ **Decisions about open problems "errata and clarifications"**

♦ **Revision of document about distributed properties**

♦ **Incorporation of Petroleum Fractions Interface in next Thermo Standard**

♦ **Examples**
  ➲ **Property Package – revision**
  ➲ **Material Object**