

# SIG Thermodynamics - 2/2004 Update

## Topics

- ⇒ Charter
- ⇒ Key Responsibilities
- ⇒ Members
- ⇒ Achievements 2003
- ⇒ Goals 2004

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## Charter:

Develop, maintain and promote thermodynamic interfaces



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## Key Responsibilities:

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



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## Members:

**Werner Drewitz**

**Michael Halloran**

**Eric Hendriks**

**Werner Merk**

**Daniel Pinol**

**Matthias Pogodda**

**Michel Pons**

**Richard Szczepanski**

**Jens Schmidt**

**Alan Scott**

**Michael Wulkow**

**BASF**

**AspenTech**

**Shell Global Solutions Int.**

**Dow Chemical**

**AspenTech**

**TUHH**

**Atofina**

**Infochem**

**Dow Chemical**

**TUV NEL (PPDS)**

**Computing in Technology GmbH**



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## Achievements 2003

- ⇒ AspenTech implemented V1.0 in AspenPlus 12.1 and resolved speed/performance issues
- ⇒ Published optimisation tricks for speed performance issues (downloadable from migration section)
- ⇒ Succeeded in revising and freezing a Type Library and IDL for V1.0 to support implementations

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## Achievements 2003

- ⇒ **Functional specification of V1.1 finalized and ready to publish**
- ⇒ **Tester and property package for V1.1 have been developed to facilitate implementation of V1.1**
- ⇒ **Enhancements of V1.1 standard to cover solids have been proposed and agreed upon**
- ⇒ **SolidSim project is committed to implement V1.1**
- ⇒ **TUHH became associated member of CO LaN and permanent member of SIG Thermo**



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## Goals 2004

- ⇒ **Focus on “Implementation”**
  - ⇒ Support commercial Implementations of V1.0 in Phys. Prop. Packages, etc
  - ⇒ Support SolidSim in Implementation of V1.1 in their COSE
- ⇒ **Verification and inclusion of enhancements to cover solids into standard V1.1**
- ⇒ **Provide examples of successful implementations to speed up usage & increase number of applications**
- ⇒ **Identify next main areas of interest (future enhancements of standard for e.g. uncertainties, polymers, etc.)**

