

January 4, 2007

EFCE WORKING PARTY ON PROCESS INTENSIFICATION REPORT ON ACTIVITIES 2005/2006

1. Addresses of the WP Chairman and Secretary:

Chairman:

Prof. Dr. ir. A. Stankiewicz
Delft University of Technology
Process & Energy Department
Leeghwaterstraat 44
2628 CA Delft, The Netherlands
Phone: +31 15 2782147
Fax: + 31 15 2786975
E-mail: a.i.stankiewicz@tudelft.nl

Secretary :

Dr. Hartmut Schoenmakers
BASF AG
Technische Entwicklung GCT – L 540
67056 Ludwigshafen
DUITSLAND
E-mail : hartmut.schoenmakers@basf.com

Both WP Chairman and Secretary have been elected for the term of 4 years during the WP Inaugural Business Meeting held on May 17, 2006 in Frankfurt am Main.

2. Number of members

The total number of the WP members as of December 31, 2006 was fifteen, including 6 industrial delegates and 1 guest member (industrial). The complete list of the WP members is provided in the attachment.

3. Events organized by WP PI

One of the important activities of the WP PI in 2006 was facilitating the European industry and academia on the way to collaborative R&D projects in the field of Process Intensification in the 7th Framework Program. To this end on November 9 and 10, 2006 the European Top on Process Intensification was held in Delft, The Netherlands. Among 30 participants of the meeting were representatives of 16 key European chemical and related industries including Bayer, Degussa, BASF, Merck, Shell, DSM, Akzo Nobel, Unilever, Rhodia, Huntsman, Arkema and Repsol, as well as the representatives of the European Technology Platform on Sustainable Chemistry

(SusChem). In the exceptionally open atmosphere of this busy meeting, all industrial participants presented their views and their specific interests in Process Intensification and expressed clearly the will to carry out collaborative research projects in this area. The Working Party will further facilitate the industry in preparations to those projects.

4. Number of Business Meetings

In 2006 two Business Meetings of the WP PI were held:

17 May 2006 in Frankfurt am Main

9 November 2006 in Delft.

The next Business Meeting is planned on 18 September 2007 in Copenhagen (during the ECCE-6).

5. Papers or documents published

There were no papers published by the WP PI. On the other hand, the WP Chairman presented two times a statement on behalf of the Working Party, entitled "Process Intensification: the Chance Europe Cannot Afford to Miss". Dates and places of presentations:

- 2nd European Innovation Workshop, European Parliament, Brussels, 4-5 October 2006;
- Ad-hoc group supporting the High Level Group on Competitiveness, Energy and the Environment, Brussels, 8 December 2006.

6. Other activities

During its last Business Meeting WP PI has proposed to establish an industry-oriented European award for the best breakthrough PI-technology applied on the commercial scale. The WP Chairman will explore the possibilities and the final decision will be taken during the next WP Business Meeting.

WP PI, together with the Process Intensification Section of DECHEMA/VDI-GVC (ProcessNet) and several other national organizations is involved in the initiative of the Dutch Chain Efficiency Platform to create the European Roadmap of Process Intensification (EUROPIN). The roadmap will play an important role in the definition of the short and long term European R&D agenda in the field of Process Intensification. WP PI will make the PI-Roadmap available to all Member Societies of the EFCE.

7. Website

The website of the WP PI will be launched in 2007. The website will be maintained by DECHEMA.

8. Other information

One of the difficulties encountered in the first year of WP PI existence was acquiring more delegates from the Member Societies. The EFCE Secretariat and the Working Party Chairman have approached ALL EFCE Member Societies two times, asking for nominations of the delegates and in some cases even proposing the potential candidates. The response was, however, very modest. The Working Party proposes that in case of further difficulties the Chairman will invite guest members from the countries not represented in the WP.

9. Forthcoming Events

The most important forthcoming event is EPIC 2007, the European Process Intensification Conference, held on 19-20 September 2007 in Copenhagen as an autonomous topical event of the European Congress of Chemical Engineering. EPIC 2007 is entirely organized by the Working Party of Process Intensification, its administration (also financial) is provided by the Secretariat of ECCE-6.

Selected papers from EPIC 2007 will be published in the special issue of Elsevier's "Chemical Engineering and Processing". The journal will have from 2007 on a clear PI-focus and a permanent subtitle "Process Intensification".

**EFCE WORKING PARTY ON PROCESS INTENSIFICATION
LIST OF WP MEMBERS (PER 31 DECEMBER 2006)**

Country	Name	Status	Address/E-mail
Austria	Dr. Dirk Kirschneck	Delegate, industry	Microinnova KEG Reininghausstrasse 13 a 8020 Graz Áustria E-mail: Dirk.Kirschneck@microinnova.com
Czech Republic	Dr. Jiri Klemeš	Delegate, academia	Centre for Process Integration School of Chemical Engineering and Analytical Science The University of Manchester, Manchester PO BOX 88 Manchester M60 1QD United Kingdom E-mail: j.klemes@manchester.ac.uk
Germany	Dr. Hartmut Schoenmakers	Delegate industry, WP Secretary	BASF AG Technische Entwicklung GCT – L 540 67056 Ludwigshafen Germany E-mail: hartmut.schoenmakers@basf.com
Germany	Prof. Andrzej Górak	Delegate academia	Universität Dortmund Lehrstuhl für Thermische Verfahrenstechnik Emil-Figge-Str. 70 D-44227 Dortmund Germany E-mail: andrzej.gorak@bci.uni-dortmund.de
Finland	Prof. Ilkka Turunen	Delegate, academia	Dept. Chem. Technol. Lappeenranta University of Technology P.O. Box 20 FIN-53851 Lappeenranta Finland E-mail: ilkka.turunen@lut.fi
France	Dr. Jean Jenck	Guest member, industry	ENKI Innovation 3 chemin des Balmes F-69110 Sainte-Foy France jenck@enki2.com
France	Prof. Michel Cabassud	Delegate, academia	Laboratoire de Génie Chimique UMR 5503 CNRS/INPT/UPS BP 1301 5, rue Paulin Talabot 31106 Toulouse Cedex 1 France

			E-mail : Michel.Cabassud@ensiacet.fr
France	Dr. Jean-Pierre Brunelle	Delegate, industry	Rhodia 52, rue de la Haie Coq 93308 Aubervilles Cedex France E-mail: Jean-Pierre.BRUNELLE@eu.rhodia.com
The Netherlands	Prof. Andrzej Stankiewicz	Delagate academia, WP Chairman	TU Delft Process and Energy Department Leeghwaterstraat 44 2628 CA Delft The Netherlands E-mail: a.i.stankiewicz@tudelft.nl
The Netherlands	Prof. Jan Harmsen	Delegate, industry	Shell Global Solutions GSTCP/2 P.O. Box 38000 1030 BN Amsterdam The Netherlands E-mail: jan.harmsen@shell.com
Russia	Prof. Eugene A. Dmitriev	Delegate, academia	The Mendeleev University of Chemical Technology of Russia Department of Processes and Apparatuses of Chemical Engineering 9 Miuskaya Sq. 1125047 Moscow Russia E-mail: energy@muctr.edu.ru
Russia	Prof. Nikolai Kulov	Delegate, academia	Kurnakov Institute of General and Organic Chemistry 31 Leninsky Pr. 119991 Moscow Russia E-mail: kulov@igic.ras.ru
Serbia	Prof. Menka Petkovska	Delegate, academia	Department of Chemical Engineering Faculty of Technology and Metallurgy 11000 Belgrade Karnegijeva 4 Serbia E-mail: menka@tmf.bg.ac.yu
Spain	Dr. Francisco Domingo Rodriguez	Delegate, industry	Alfonso Cortina Technology Centre, REPSOL-YPF, S.A., Carretera Nacional V km 18 28931 Móstoles (Madrid), Spain E-mail: cvdiez@repsolypf.com (Dr. Carlos V. Peña)
Spain	Prof. Felix Garcia-Ochoa	Delegate, industry	Facultad de Ciencias Químicas Universidad Complutense de Madrid Ciudad Universitaria 28040 Madrid Spain E-mail: fgochoa@quim.ucm.es