

**MINUTES OF THE WP PROCESS INTENSIFICATION BUSINESS MEETING  
VENICE, 17 JUNE 2009**

Delegates and Guest Members present: Andrzej Górak (AG), Jan Harmsen (JH), Menka Petkovska (MP), Lioubov Kiwi-Minsker (LKM), Alberto Servida (AIS), Jean Pierre Brunelle (JPB), Michel Cabassud (MC), John Nichols (JN), Felix Garcia-Ochoa (FGO), Tommy Norén (TN, Alfa Laval), Jean Jenck (JJ, ENKI Innovation).

Invited guests: Rosemary Cragg (RC, IChemE), Jian-Feng Chen (JFC, Beijing University of Technology), Tom Van Gerven (TVG, KULeuven)

**Agenda**

1. Opening/amendments to the agenda

AG acts as chairman of this meeting in the absence of Andrzej Stankiewicz (AS).  
There are no amendments to the agenda.

2. Introduction of new delegates and guests

Prof. Schnitzer has been nominated as academic delegate for Austria.  
Dr. Bruno De Witte (Janssen Pharmaceutica – Johnson&Johnson) and Dr. Tom Van Gerven (University of Leuven) have been proposed by the Flemish Society of Engineers as delegates for Flanders/Belgium. It is expected that the official nominations will follow in due course.

The Russian delegates are not active in the Working Party at all and have not participated in any of WP's activities so far. **EFCE will be informed by the chairman that the Working Party awaits new delegates. Action by AS.**

Dr. Schoenmakers retires as WP Secretary. The members of the WP thank him for the work performed. **AG proposes to appoint TVG as WP Secretary, which is accepted by the delegates.**

3. Minutes of the previous Business Meeting in Prague (27-08-2008)

No comments; minutes are accepted.

4. Looking back on main developments in the past year

▪ *EPIC2009*

On the presentations and papers: Two very similar presentations were given by dr. Rudolf Von Rohr, which is to be avoided in future. Four presentations were withdrawn, but were replaced. There were many interesting posters, although the space provided was too small. The Keynote Lectures by Strohrmann, Chen, Bowadt and Leonelli/Mason were very good. Overall the content was considered to be good.

On the co-organization with GPE: Some delegates found this very complementary, while others found the scope to too broad. An advantage was the multidisciplinary generated by the co-organization, participants from very diverse background were present. Because of its international character, GPE 2011 will be organized in Malaysia. **It is to be discussed in 2011 whether a co-organization with GPE in 2013 is appropriate.**

On the cost of the conference: The registration cost was high, in part due to the Venice location. Especially for developing countries this is a problem. Attempts were made to have an industrial exhibition, but the interest was limited (only 3).

On the next conference: Maximum 2 parallel sessions. Presentation of 20 minutes with 10 minutes of questions.

- *Action Plan for Process Intensification and Skyline Theme*  
This Dutch Action Plan has been approved and four of the focus lines (Alternative energy-based processes, Transport-limited processes, PI process analytical tools, Skyline Theme) will start in 2009. The Skyline Theme aims for a vision on Chemical Process Industry for 2050. The Working Party congratulates the Netherlands on this initiative.
- *European Process Intensification Center (EUROPIC)*  
This is an initiative by industry for industry. Three Universities (Delft, Dortmund, Toulouse) are involved as administration nodes. University experts can be requested for consultancy services.
- *Other initiatives*  
No other initiatives.

#### 5. EFCE 2009 Excellence Award in Process Intensification

There were 5 nominations. The jury consisted of AS, Ilkka Turunen and John Woodley. Dr. Carsten Buchaly (Bayer Technical Services) has been selected for the award for his work at the Technical University of Dortmund on the combination of reactive distillation and membrane distillation. The prize consists of a certificate and €1500. A press communication will be released by EFCE and by Bayer Technical Services. Dr. Buchaly will give a presentation in the closing ceremony of EPIC2009. The members of the jury are thanked for their work.

Composition of the jury for 2011: JH, Ilkka Turunen and John Woodley. In case of conflict of interest JPB or AS can step in.

**The delegates are requested to propose candidates for the next award in 2011.**

#### 6. EPIC 2011

IChemE in Manchester is the only candidate. RC presents the bid.

On the date: DECHEMA suggests 19-22 June 2011. It is suggested to check on dates of other conferences such as ISCRE, ESCAPE, etc.

On the costs: It is pointed out that a wide variety of hotels is available, from budget to luxury options. Access to Manchester is possible through low-cost airlines. The proposed conference fee remains an issue of concern.

On the themes and scope: It is important to clearly state the link between chemical engineering and other disciplines such as chemistry, biology, physics, etc. Complementary to the collaboration with other EFCE Working Parties, it is good to see potential partnership in the bid with e.g. the Royal Society of Chemistry. Also there should be focus on R&D on the industrial scale.

Scientific chairmen will be AS and AG.

**The delegates accept the bid from IChemE and look forward to EPIC2011 in Manchester.**

For 2013, there are two candidates: Graz and DECHEMA. Other candidates are welcome.

7. Collaboration with other Working Parties – joint session at ECCE-07 in Prague  
The WP's Process Intensification, Chemical Reaction Engineering and Multiphase Fluid Flow will organize a joint poster session for PhD and postdoc during ECCE-07 in 2010 in Prague. A prize will be awarded for the best poster.
8. Perspectives for collaboration and international PI conference in China  
JFC proposes to hold an international conference in 2010 in Beijing on PI. It can be organized together with the annual national conference (no simultaneous translation), so that foreign lectures can be included in this national conference. AG proposes to also include presentations by Chinese industry and set up bilateral meetings with local industrial delegates, university experts and government officials.

**The delegates agree that this event can be organized. This implies that delegates are also willing to attend this meeting (about one week trip). JFC, AG and AS will take further actions.**

9. Date and place of the next business meeting  
Next meeting will be organized at CHISA2010/ECCE-07 in Prague: August 29-September 2, 2010.
10. Any other business  
JJ notes that WCCE8 has received an overwhelming interest. An industrial workshop on PI will be held during the conference. **The delegates decide that JJ will officially represent the Working Party during this event.**

As a follow-up to the present EPIC conference, AG and AS will invite selected speakers by August 2009 to send papers by December 2009 for publication as a special issue in CEP:PI in February 2010.

A master course on PI is being prepared by TUDelft and KULeuven. It is intended to put the slides on the Working Party website, so that all interested parties can use them for education purposes. It is also expected that the interested parties provide input with own

slides. The goal is to establish a common language with respect to PI, spread the ideas of PI and update progress in the field. **AS takes action.**

**Delegates are requested to check and update their personal information and provide Jiri Klemeš with their photographs.**

A summer school on PI will be organized in Vespem (Hungary) in 2010. Experts may be invited.

JFC proposes a similar course to be held in China. This could be combined with the workshop in 2010. **JFC, AG, AS and TVG will take further steps.**