

**MINUTES OF THE WP PROCESS INTENSIFICATION BUSINESS MEETING 2012
FRANKFURT, 18 JUNE 2012**

Delegates present: Ilkka Turunen (Academia, Finland, chairman), Georgios Stefanidis (Academia, Greece), Bora Aydın (Industry, Turkey), Bruno De Witte (Industry, Belgium), Jean-Pierre Brunelle (Industry, France), Xiong-Wei Ni (Academia, UK), Jean Jenck (Industry, France), Michel Cabassud (Academia, France), Dirk Kirschneck (Industry, Austria), Tord Svedberg (Academia, Sweden), Andrzej Stankiewicz (Academia, the Netherlands), Tom Van Gerven (Academia, Belgium, secretary).

Invited guests: Ines Honndorf (DECHEMA).

Excused: Andrzej Górak (Academia, Germany), Andrzej Kraslawski (Academia, Finland), Liubov Kiwi-Minsker (Academia, Switzerland), Tommy Norén (Industry, Sweden), Jan Harmsen (Industry, the Netherlands), Jiri Klemes (Academia, Czech Republic), John Woodley (Academia, Denmark), Menka Petkovska (Academia, Serbia), Mark Dickson (Industry, UK).

Agenda

1. Opening/amendments to the agenda

No amendments to the agenda are proposed.

2. Introduction of new Delegates and Guest Members, update of the list of Members

- Jean Jenck will retire and resigns after this meeting as WP guest member. He is thanked for his contribution over the past years.
- The Russian delegates remain very silent members. Tom Van Gerven will send them a formal letter requesting their explicit confirmation that they want to remain members, otherwise they will be removed from membership.
- Many countries remain unrepresented. Germany, Finland, Greece, Switzerland, Serbia, Denmark, Czech Republic do not have an industrial delegate. Turkey and Spain do not have an academic delegate. Ines Honndorf will contact the local federations. Delegates are also requested to propose potential candidates. Dirk Kirschneck will provide two potential candidates from Switzerland to Tom Van Gerven.

The updated list of members can be found in appendix.

3. Minutes of the previous Business Meeting in Manchester (22-06-2011)

The minutes are approved.

4. EPIC2013: Progress

The WP is worried about the visibility of EPIC in the ECCE99/ECAB2 conference. Communication with the ECCE9 organizers is difficult. There is a risk of dilution of PI themes within these large conferences.

Therefore ***the WP decides*** that:

- Georgios Stefanidis and Tom Van Gerven become chairmen of the EPIC2013. The conference chairmen are delegated the power to negotiate with the ECCE9 organisers on behalf of the WP.
- The scientific committee of EPIC consists of Ilkka Turunen, Andrzej Stankiewicz (both already in the coordinating committee of ECCE99), Georgios Stefanidis, Tom Van Gerven, Andrzej Gorak (tbc), Tord Svedberg, Dirk Kirschneck, Michel Cabassud, Xongwei Ni, Bora Aydin, Liubov Kiwi-Minsker.
- Session chairs should be selected from the WP. It should be up to the conference chairmen to invite the Keynote Speakers related to PI.
- In order to improve visibility, measures need to be taken with respect to the ECCE99 website and the ECCE9 Call for Abstracts. **Note by Tom Van Gerven:** after the WP meeting it became clear that the Call for Abstracts had been already printed and partly distributed. The ECCE99 organizers agreed to 1) implement the necessary changes on the electronic leaflet on the website, 2) highlight the changes in the News Letter, 3) implement the changes on the paper leaflet when there would be a second call.
- An additional EPIC electronic flyer should be distributed via ECCE9 and previous EPIC mailing lists.

The ECCE9 organisers have requested proposals for Keynote Speakers. Already suggested names include: Galip Akay, Anne Tonkowicz, Jan Lerou, Klaus Lackner, Dion Vlachos, Laurent Falk, Klaus Sommer (?), Enrico Drioli, Bernd Ondrushka, other US and Asian speakers. **All delegates are requested to suggest names to Tom Van Gerven before July 4th. Andrzej Stankiewicz will suggest 2 industrial speakers.**

It is not clear how many parallel sessions are reserved for EPIC during the three days. It seems that there are 3 afternoons available, but flexibility is required from ECCE9 when more good abstracts are received. To be discussed by the conference chairmen.

5. Arrangement of poster competition in ECCE99

The poster competition is a joint initiative by the WPs on Process Intensification, Multiphase Flow and Chemical Reaction Engineering. Title is "Intensified Technologies for Multiphase Processes". First author has to be a doctoral student.

The procedure has to be explained in the ECCE9/ECAB2 website and there should be a separate submission procedure. To be taken up by the conference chairman.

Each WP is represented by one jury member. **Ilkka Turunen volunteers to be on the jury.**

6. Educational PI seminar in connection to EPIC2013

TU Delft has proposed to organise a one to two days workshop on "How to teach PI" in Delft on April 25-26, immediately after the ECCE9/EPIC conference. A fee of ca. 50 euro would be asked to cover costs. This workshop is directed towards academic PI teachers, but also an overview of postgraduate courses dealing with PI could be given for industrial participants. The

methodologies in Delft/Leuven, Herriot Watt, Toulouse and Dortmund universities could be shown. **Andrzej Stankiewicz will contact David Reay, Michel Cabassud and Andrzej Gorak. He will send around a proposal.**

7. PI Excellence Award 2013

Every 2 years the WP gives an award for the best PhD on Process Intensification. See: <http://www.efce.info/ExcellenceAward+ProcessIntensification.html>. The press release can be found as an attachment. **All delegates are requested to spread the information.** For the 2013 Award:

- To be presented during the EPIC2013
- Deadline for submission is December 15, 2012
- Jury members: Michel Cabassud, Bruno De Witte, Dirk Kirschneck

Bruno De Witte proposes to have an Award for Industrial Innovation as well, similar to the CPHI Award (<http://www.cphi.com/innovation-awards>). This fuels interest and visibility from companies. Typical price package: press release, presentation during an event, something tangible for the winners to take home. The WP is in favor of such an award. **EFCE will decide on a WP-wide approach in August, Ines Honndorf will give feedback on the decision.**

8. Future of EPIC after 2013

A long discussion is held on two questions: 1) should EPIC go outside of Europe (and transform in to IPIC), 2) should EPIC always be organised in conjunction with a large conference (e.g. ECCE9, AIChE, WCCE, ...).

Some facts:

- Jian-Feng Chen organised a PI conference in China, right after the previous EPIC.
- There are three candidates for the organisation of ECCE10 in 2015: Nice, Istanbul and Milan. Nice would like to host EPIC during ECCE10 if they are selected.
- IChE (India) is promoting huge PI projects.
- In the US Dion Vlachos (Delaware) and AIChE Group12F (Hans-Jorg Freund) would perhaps be interested, although on a previous occasion Jean Jenck felt little enthusiasm.

It is decided that **EPIC2015 will be held in Europe. Candidates should submit their proposal to Ilkka Turunen by April 20, 2013 at the latest. All delegates are requested to spread this information.** The candidacies will be discussed during the next WP Business Meeting, which will be held in the EPIC2013 conference. In the meantime **communication with Asia and US will be started** to explore the possibility of organising an IPIC conference outside of Europe in 2017. We would aim for a rotation Europe/Asia/US. If things run well, the 2015 conference could be the first IPIC then.

9. Critical assessment and status report on PI technologies

Ilkka Turunen proposes to organise a questionnaire to assess the status of PI in the individual countries. This could also give us new success stories of PI. However, it has to made more clear what will be done with the results coming out of the questionnaire. **Ilkka Turunen will make a proposal.**

10. Industry-oriented short introductory course on PI

Europic (<http://www.euopic-centre.eu/>) already organises such a course. Andrzej Staniewicz and Andrzej Gorak are involved. The sectors for which the course is relevant depends on the lecturers. Now it is mainly directed towards chemical process industry, but metallurgical and paper&pulp industry are also relevant domains. **Andrzej Stankiewicz will send more information on this course.**

11. Website

Visit: <http://www.efce.org/Working+Parties/Process+Intensification/Home-p-111684.html>
Delegates are requested to send short communications of implemented process intensification examples.

12. Any other business

Jean Jenck calls for more interest in process intensification related to biotech. Many biotech-related conferences have process intensification as a theme. He suggests that Ilkka Turunen takes contact with Laurent Falk to discuss potential cross-fertilization.

Tom Van Gerven announces that a permanent position on thermodynamics and exergy analysis in chemical engineering is available at KU Leuven. Information to be found from the beginning of July on <http://www.kuleuven.be/personeel/jobsite/vacatures/engineering.html>. Please spread the news.

13. Date and place of the next business meeting

Next meeting will be organized during EPIC2013: April 21-24, 2013 in The Hague, the Netherlands. Exact time and location will be communicated later.

Tom Van Gerven, secretary, 21-06-2012.

Attachments:

1. List of members
2. Press release Call for Nominations Excellence Award in Process Intensification 2013