



MINUTES
of the
Meeting of the Working Party on Mixing

*held on the occasion of the 5th International Symposium on Mixing in Industrial Processes
(ISMIP5) in Sevilla (Spain)
on Friday, June 4th, 2004 from 8.00 a.m to 9.45 a.m*

LIST OF PARTICIPANTS

PRESENT

WPMixing Members

| | |
|----------------|--------------------|
| Bulgaria | Vlaev Serafin |
| Czech Republic | Fort Ivan |
| | Ditl Pavel |
| France | Bertrand Joël |
| Italy | Magelli Franco |
| Poland | Baldyga Jerzy |
| Slovenia | Zumer Miha |
| UK | Yianneskis Michael |

Standing Guests and invited

| | |
|----------|-----------------------|
| France | Choplin Lionel |
| | Poux Martine |
| | Xuereb Catherine |
| Italy | Mancini Nicola |
| Slovenia | Slemenik Perse Lidija |
| Spain | Gallegos Crispulo |
| UK | Nienow Alvin |
| | Barigou Mostafa |

EXCUSED

| | |
|-------------|-------------------|
| Canada | Kresta Suzanne |
| | Tanguy Philippe |
| Germany | Kraume Matthias |
| | Geisler Reinhard |
| Greece | Mavros Paul |
| Israel | Wolf D. |
| Switzerland | Streiff Felix |
| | Meyer Thierry |
| U.K. | Ozcan-Taskin Güll |

PROGRAM

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| Item 1 • | Adoption of the minutes of the WPM meeting held in Bamberg (Germany) on October 14th, 2003 | <i>all participants</i> |
| Item 2 • | Future main event : 7th world Congress of Chemical Engineering (incorporating the 5th European Congress of Chemical Engineering) to be held in Glasgow , 10-14 July 2005 | <i>Joël Bertrand</i> |
| Item 3 • | The journal Chem. Eng. Res. Design and the EFCE <ul style="list-style-type: none">- new strategy- actions on the occasion of the 50th birthday of the EFCE | <i>Joël Bertrand Martine Poux</i> |
| Item 4 • | Report on the activities of the national associations <ul style="list-style-type: none">- NAMF | <i>Piero Armenante</i> |
| Item 5 • | Scientific evaluation of ISMIP5 – new trends in mixing | <i>Catherine Xuereb</i> |
| Item 6 • | Next events in Mixing <ul style="list-style-type: none">- Chisa Congress and others meetings- Alvin Nienow 's jubilee- 12th European Conference on Mixing – Mixing XII, Italy- 13th European Conference on Mixing – Mixing XIII, UK | <i>Ivan Fort Joël Bertrand Franco Magelli Michael Yianneskis</i> |
| Item 7 • | New actions of the WP on Mixing <ul style="list-style-type: none">- web site- exchange of PhD students | <i>Martine Poux Joël Bertrand</i> |
| Item 8 • | Reflexion on the future of the process industry in Europe | <i>all participants</i> |
| Item 9 • | Next meeting of the WP on Mixing | <i>all participants</i> |
| Item 10 • | Miscellaneous | <i>all participants</i> |

Item 1 • Adoption of the minutes of the WPM meeting held in Bamberg (Germany) on October 14th, 2003

No amendments were requested and the minutes were adopted.

Item 2 • Future main event : 7th world Congress of Chemical Engineering (incorporating the 5th European Congress of Chemical Engineering) to be held in Glasgow , 10-14 July 2005

Joël Bertrand has presented the topics of the 7th Congress of Chemical Engineering. More than 2000 participants are expected. Nevertheless, the expensive price of the inscriptions has been noted by all the participants to this meeting.

- Item 3 • The journal Chem. Eng. Res. Design and the EFCE**
- **new strategy**
 - **actions on the occasion of the 50th birthday of the EFCE**

The journal Chem. Eng. Res. Design has been chosen to be the official journal of the EFCE. So, the submission of papers for publication in this journal is encouraged for each EFCE event. Some of the participants have noted the delay for the acceptance answer which could be long.

A special issue will be published for the 50th anniversary of the EFCE at the end of the year. The chairman has been contacted in order to propose a review on the new trends and future of the topic. Martine Poux has contacted each member in december and january and has received now enough information to prepare the synthesis. She will send it to every member as soon as possible.

- Item 4 • Report on the activities of the national associations : NAMF**

This item has not been treated because of the absence of NAMF delegate.

- Item 5 • Scientific evaluation of ISMIP5 – new trends in mixing**

A synthesis by topics (2 to 4 pages) will be published in Chem. Eng. Journal. in which one a selection of the papers presented at ISMIP5 will be also published .

- Item 6 • Next events in Mixing**
- **Chisa Congress and others meetings**
 - **Alvin Nienow 's jubilee**
 - **12th European Conference on Mixing – Mixing XII, Italy**
 - **13th European Conference on Mixing – Mixing XIII, UK**

Ivan Fort has prepared a list of the next meetings in mixing (see enclosure 1). Delegates have commented the increasing number of the conferences and congresses in mixing and also the short duration between two successive events. Chisa Congress is well-known as a traditional meeting and attracts a large number of participants coming from the former Eastern republics . It do not interact with EFCE events and is a major event in Chemical Engineering.

Alvin Nienow's jubilee is put on as a mini-meeting with oral presentations and posters. 35 proposals have been received after the call for papers for a special edition of Chem. Eng. Res. Des. and 22 or 23 will be accepted. All persons are invited to come to this event on 16th September in Birmingham.

The 12th European Conference on Mixing – Mixing XII will be organized by Franco Magelli probably at the University of Bologna (Italy) under the auspices of AIDIC at the end of June in 2006.

The procedure for the publication of the proceedings of the conference is discussed. It could be the same than those adopted for the last conference held in Bamberg. Proceedings collecting all the full texts (8 or 6 or 4 pages, length open to discussion) are distributed at the time of the registration that allows to the participants to have some material during the conference. A selection of papers could be published in a journal.

The 13th European Conference on Mixing – Mixing XIII will be held in London (UK) with Michael Yanneskis as the chairman probably at the end of may or at the beginning of June 2009.

- Item 7 • New actions of the WP on Mixing**
- **web site**
 - **exchange of PhD students**

Martine Poux will ask to all the WP Mixing members their needs and their specific expectations concerning the web site by e-mail before the end of the year. The modifications will be done in consequence.

A reflexion concerning the exchange of PhD students has been started. This exchange for a short time could be very efficient to discuss and resolve for example technical problems which occurs on such apparatus of high technology (PIV) or numerical problems.

In the first step, she will establish a list of the research laboratories involved in mixing in Europe and evaluate the human potential including the PhD students and the subject they are working on.

Ivan Fort will send some documents coming from European Union usefull to collect some grants.

- Item 8 • Reflexion on the future of the process industry in Europe**
Joël Bertrand has proposed that this point could be discussed by e-mail.

Item 9 • Next meeting of the WP on Mixing

Jerzy Baldyga has proposed to invite the WP Mixing to have its meeting during the 10th jubilee polish seminar on mixing and international workshop which will be held in Poznan (Poland) from 26 to 29 September 2005.

Enclosures :

- 1• List of conferences on Mixing and Sessions on Mixing of the Conferences of chemical Engineering in 2004-07-28 (by Ivan Fort)
- 2• EFCE – Meeting of the WP and section chairmen – Francfort, 28 juin 2004 (by Joël Bertrand)

ENCLOSURE 1

List of Conferences on Mixing and Sessions on Mixing of the Conferences of Chemical Engineering 2004 (by Ivan Fort)

1. Arbeitssitzung der GVC-Fachausschusse "Mischvorgaenge" und "Technische Reaktions-fuehrung", March 16 – 17, 2004, Weimar (Germany)
19 oral papers on Mixing
Scientific Secretary: Prof. Dr.-Ing. M. Kraume, Department of Chemical Engineering, TU Berlin (Germany)
2. Polish National Conference on Chemical and Process Engineering, June 15 – 18, 2004, Gli-wice-Szczyrk (Poland)
Session on Mixing
30 oral papers and posters
Scientific Secretary: Professor Dr.-Ing. J. Baldyga, Department of Chemical and Process Engineering, Warsaw University of Technology (Poland)
3. Mixing in Multi-Phase Agitated Systems, April 20, 2004, Loughborough (UK)
11 oral Papers
Scientific Secretary: Professor Dr. Ch. Reilly, Department of Chemical Engineering, Cam-bridge University (UK)
4. The 5th International Symposium on Mixing in Industrial Processes (ISMIP 5), June 1 - 4, 2004, Sevilla (Spain)
6 Sessions (143 oral papers and posters)
Scientific Secretary: Professor Dr. P. Tanguy, Department of Chemical Engineering, Eco-le Polytechnique, Montreal (Canada)
5. Conference " 7. Koethener Ruehrer-Kolloquium", June 24, 2004, Koethen (Germany)
7 oral papers
Scientific Secretary: Professor Dr.-Ing. R. Sperling, Department of Process Engineering, TH Anhalt Koethen (Germany)
6. The 16th International Congress of Chemical and Process Engineering CHISA, August 22 – 26, 2004, Prague (Czech Republic)
Session on Mixing
11 oral papers and 12 posters
Scientific Secretaries: Professor Dr.-Ing. P. Ditl and Professor Dr.-Ing. I. Fort, Depart-ment of Process Engineering, Czech Technical University in Prague (Czech Republic)
7. 2004 AIChE Annual Meeting, November 7 – 12, 2004, Austin (TX, USA)
Session on Mixing (Group 06 North American Mixing Forum Sessions):
Solid-Liquid and Liquid-Liquid Mixing
Gas-Liquid Mixing
Industrial Mixing and Scale-up Issues
Mixing and Chemical Reaction
Novel Computational and Experimental Methods in Mixing
Laminar Mixing and Mixing Fundamentals

Scale-up of Solids Mixing Processes
Mixing Issues in the Petroleum and Petrochemical Industries
Mixing in Microdevices and Microreactors
Scientific Secretary: Dr. D. Dickey, MixTech, Inc., Dayton (OH,USA)

8. The 10th International Summer School of Chemical Engineering, May 24 – 31, 2004 , Varna, (Bulgaria)
7 papers on Mixing (2 oral presentations and 5 posters)
Scientific Secretary: Dr. Sapundzhiev, Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia (Bulgaria)
9. Greek-Bulgarian Seminar on Fluid Flow Simulation (Fluent), July 8th, 2004, Sofia (Bulgaria)
3 lectures on flow simulation in stirred tank
Principal Organizers: Sintec,Ltd., Thessaloniki (Greece) and Institute of Chemical Engineering, Bulgarian Academy of Sciences, Sofia (Bulgaria)
10. The 3rd International Symposium on Two – phase Flow Modelling and Experimentation, September 22 – 25, 2004, Pisa (Italy)
10 papers on Mixing and related topics
Scientific Secretaries: Dr. G. P. Celata, ENEA Cassacia,, Institute of Thermal – Fluid Dynamics, Rome (Italy) and Prof. D. Di Marco, University of Pisa, Department of Energetics, Pisa (Italy)
11. The 9th International Conference on Multiphase Flow in Industrial Plants, September 20 – 21, 2004, Rome (Italy)
7 papers on Mixing and related topics
Secretariat: ANIMP, Milan (Italy)

ENCLOSURE 2

**EUROPEAN FEDERATION OF CHEMICAL ENGINEERING
MEETING OF THE WORKING PARTY AND SECTION CHAIRMEN
FRANCFORT, 28 JUIN 2004
(from Joël Bertrand)**

The session is open by Ryszard POHORECKI, Scientific Vice-President of the EFCE at 10.30 am.

Comment: we have twenty eight working parties and three sections (Food, Separation Technology, Product Design and Engineering)

1. STRATEGIC MATTERS

1.1 Individual membership

Generally working parties (WP) are composed by delegates of national societies. Delegates are coming from industry or from academy.

Is it a good idea to open WP to guest members?

It is decided that guest members can be invited by the Chairman of the WP under three conditions:

- they have to come from a country represented in the WP in question.
- the number of such guests should not exceed 20% of the total of membership.
- the delegates of each WP have to decide who is voting, who is not voting.

1.2 Industrial membership

Industrial members are poorly active in the working parties. Have we something to do?

2. WORKING PARTY MATTERS

2.1 Merging of the Working Parties *Chemical Reaction Engineering* and *Chemical Engineering in the Applications of Catalysis*

OK

2.2 Chairmen

The problem of the Chairman is solved. We decide that a person could be chairman two times three years (or two times four years).

3. SECTION MATTERS

3.1 Section on *Separation Technology*

Report OK

3.2 Section on *Product Design and Engineering*

Report OK

Applications to biochemical and pharmaceutical engineering

3.3 New section on *Food*

Food industry in Europe is larger than chemical industry in Europe

In USA, every year, IFT (Institute for Food Technology) organizes a congress with more than 15,000 participants.

A very active group in Europe is the French group.

3.4 Creation of new sections

A section is larger than a WP. It is why Working Party on *Environmental Protection and Sustainable Development* could be moved to a section.

A very large discussion occurs about *Process Intensification*. Is it a special section?

4. 50th ANNIVERSARY OF The European Federation of Chemical Engineering

Only ten or eleven WP will publish a paper on their activities or on the trends of their researches.

5. EFCE WEBSITE

www.efce.info

6. FUTURE OF CHEMICAL ENGINEERING

- Process engineering for sustainability
- Product engineering
- Multiscale modelling

7. EFCE JOURNAL, *Chemical Engineering Research and Design*

Reviewing time is too long.

We have to encourage our colleagues to send contributions to this Journal, in each of the three parts.

8. ECCE-5 and 7th WORLD CONGRESS OF CHEMICAL ENGINEERING

The fees are definitively too expensive.

The scientific program is not very clear (something between Science and current newspapers).

We are not satisfied and the congress does not correspond to our expectation.

9. DATE AND PLACE OF THE NEXT MEETING

Monday 11th of April in Francfort