

EUROPEAN FEDERATION OF CHEMICAL ENGINEERING
Working Party on Crystallization

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MINUTES

of the 38th Annual Meeting of the Working Party on Crystallization (WPC) held on March 8, 2004 at the ETH Zürich, Switzerland

Present delegates:

P. Barrett	Ireland
B. Biscans	France
Z. Bubník	Czech Republic
A. Chianese	Italy
P. J. Daudey	The Netherlands
B. Glennon	Ireland
M.J. Hounslow	United Kingdom
P. J. Jansens	The Netherlands
B. Lakatos	Hungary
M. Mazzotti	Switzerland
Å. Rasmuson	Sweden
R. Spruijtenburg	Switzerland
J. Ulrich	Germany
H.P. Wirges	Germany

Apologised and absent delegates:

P. Carvin	France
J. Hostomsky	Czech Republic
P. G. Koutsoukos	Greece
E. Korin	Israel
I. V. Melikhov	Russia
S. K. Myasnikov	Russia
F. Paroli	Italy
R. Rodriguez-Clemente	Spain
P. Synowiec	Poland

Present permanent guests:

Guests:

Prof. M. Kind	Germany
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Apologised and absent permanent guests:

M. Giuliatti	Brazil
R. Guardani	Brazil
J. P. Klein	France
N. Kubota	Japan
J. W. Mullin	United Kingdom
J. Nývlt	Czech Republic
G. M. van Rosmalen	The Netherlands
K. Toyokura	Japan
W. Woehlk	Germany

Marco Mazzotti, who hosted the WPC-meeting, welcomed all present. J. Ulrich, the WPC Chairman, opened the meeting and thanked Marco and the ETH Zürich in the name of all participants for organizing and hosting the meeting.

1. The Minutes of the last meeting of the Working Party, held on April 1st 2003 at the Weimar Hilton, Weimar, Germany, were approved.

2. Announcements of the Chairman.

There was a General Assembly of the WP Chairmen in Granada, Spain, in Oct. 2003. The most important discussion point was the 7th World Congress on Chemical Engineering in Glasgow, 10 – 14th July 2005.

As the World Congress takes place just 2 months prior to ISIC16, the question was discussed to what extent the WPC should promote the participation of the crystallization community in the World Congress. Although the opinion was expressed that the crystallization community should be more outward-looking, it was finally agreed that the WPC will not promote a Crystallization Session in the World Congress but instead recommend the community to focus on ISIC16 (Joachim Ulrich will write a letter to the organizers).

The Chairman drew the attention to several upcoming crystallization meetings:

- 11th BIWIC on September 15-17, 2004, Korea
- ICCG 14 on August 9-13, 2004, Grenoble, France
- ACT-Meeting on October 3-6, 2004, North Chicago, USA

3. European Projects in Crystallization.

The project INPACT on nanoparticles was not submitted to the European Commission in 2004 within the frame of the second call of the 6th Framework Programme, because the NoE instrument was not selected in this new proposal. Béatrice Biscans acknowledges all members who have participated in the definition of the project INPACT.

Angelo Chianese informed about an European project in progress (acronym: SINC-PRO) on the application of advanced control algorithms to batch and continuous crystallizers. The project, in the framework of the program Intelligent Manufacturing System - IMS, gave rise to an international cooperation with other IMS projects on the same topic in Switzerland and Japan.

4. Further activities of the Working Party.

- All delegates are requested to keep their national lists of crystallization activity centers updated and to make them available to the secretary of the WPC.
- Ake Rasmuson launched the idea of a yearly Summer School for PhD-students fostered by the Working Party. An alternative could be a Workshop subsequent to the WPC-Meeting. P. Jansens proposed to devote a WPC-Meeting to the idea of a Summer School or Workshop on predefined topics. The WPC-Meeting in Dresden 2005 would be well suited for such a subject, as time will not have to be devoted mainly to the organization of the next ISIC. A pre-meeting to collect ideas could be held during one of the next meetings of the Scientific Committee.
- Angelo Chianese urged the WPC to publish further books under its auspices. A topic of current relevance could be "On-line Sensors and Process Control for Industrial Crystallization Operations". Angelo Chianese wanted to take the initiative in due time.

5. WWW-homepage of the WPC.

The WPC-homepage will be the main information platform for ISIC16.

6. 16th International Symposium on Industrial Crystallization (ISIC 16) in 2005: the dates have been finalized as follows: **September 11-14, 2005**. The welcome reception will be on Sunday September 11 (evening), closure will be on Wednesday September 14th after the morning session.

Joachim Ulrich presented the venue and a broken down budget proposal:

1. Venue: The venue will be the Maritim congress center. The main lecture hall offers 402 seats; an additional room with 100 seats is also available. Poster space is 870 m² (250 posters).
2. Budget: The budget proposal worked out by VDI included among others a reduced rate for VDI-members, i.e. for German participants only. This was felt to be inappropriate. Alternatively, another cost calculation was adopted. On the basis of 300 participants the total budget amounts to Euro 200'000 (without accommodation). Assuming 200 participants paying full rate and 100 participants paying half rate, a full rate of Euro 800 and a reduced rate of 400 Euro would follow. It was agreed that a full rate of Euro 850 should not be exceeded.
3. Format of the conference: It was agreed that one of the primary objectives of the conference has to be to offer a platform for scientific discussion. It was felt that neither the poster sessions, nor the discussions after each lecture offer enough opportunity for a debate between experts on core issues and future trends and needs in the field of industrial crystallization. However, well prepared panel discussions would offer the appropriate frame for such a more in-depth exchange between experts and participants. In order to accommodate 2 panel discussions, it was decided not to extend the conference to 3 full days, but to stick to two and a half days and to cut one lecture from each of the 5 half-day sessions. The panel discussions should serve as an introduction to a group of posters and at the same time highlight important ideas in a special field of industrial crystallization. The Scientific Committee will define 2 topics a for Panel Discussion. The Scientific Committee will finalize this concept.
4. Plenary Speakers. At the last WPC-meeting the following 5 Topics of ISIC16 had been agreed on:
 - Topic 1: Thermodynamical prediction of physical properties
 - Topic 2: Product design and characterization
 - Topic 3: Crystallization problems in the pharmaceutical and food industry
 - Topic 4: Conceptual process design ("Process intensification")
 - Topic 5: Control of (batch-)crystallizers

Tentatively, the following key-note speakers have been assigned to the 5 topics:

- Topic 1: Gérard Coquerel (F)
- Topic 2: Mike Hounslow (GB)
- Topic 3: Bob Dogherty (USA)
- Topic 4: G. Hofmann (D)
- Topic 5: Ka Ng (CN)

The Scientific Committee will finalize the assignment of the 5 mentioned key-note speakers to the 5 proposed conference topics. In order to define the frame for each of the 5 Plenary Lectures, each member of the Scientific Committee will be requested to provide 5 keywords to each topic.

5. Scientific Committee: the following Delegates have been designated as core members and have meanwhile all agreed to take the task:
 - Paul Barrett (Ireland)
 - Béatrice Biscans (France)
 - Zdenek Bubnik (Czech Republic)
 - Angelo Chianese (Italy)
 - Peter Daudey (Netherlands)
 - Marco Giulietti (Brasil)
 - Mike Hounslow (Great Britain)

- Peter Jansens (Netherlands)
- Kwang-Joo Kim (South Korea)
- Bela Lakatos (Hungary)
- Masakuni Matsuoka (Japan)
- Marco Mazzotti (Switzerland)
- Gordon Parkinson (Australia)
- Franco Paroli (Italy)
- Ake Rasmuson (Sweden)
- Matthias Rauls (Germany)
- Ronald Rousseau (USA)
- Robert Spruijtenburg (Switzerland)
- Joachim Ulrich (Germany)

6. Logo.

Any ideas for a logo for ISIC16 are warmly welcomed.

7. Any other business

- Joachim Ulrich proposed Kwang-Joo Kim as a permanent guest from South Korea. K.-J. Kim is Professor at the Korea Research Institute of Chemical Technology. The proposal was approved unanimously by the delegates present.
- Peter Jansens raised the question if the status as a "permanent guest" shouldn't be subjected to a vote by the regular delegates after a term yet to be defined. The same question has to be asked with respect to the regular delegates. Joachim Ulrich will come up with a proposal on these matters at the next meeting. (As a reminder, at the WPC-meeting in Delft 2001 "It was decided that the term of the Chairman and Secretary would normally be three years in the first instance with the possibility of continuing for another three years. Since the three-years cycle has been chosen in order to coincide with the periodicity of the International Symposia on Industrial Crystallization, *the first term of J. Ulrich and R. Spruijtenburg will be (exceptionally) four years*").
- Mike Hounslow was requested to come up with a proposal for an industrial delegate for Great Britain.
- As Rafael Rodriguez Clemente has changed his position a new delegate for Spain has to be appointed. R. Rodriguez Clemente has proposed Prof. Juan Manuel Garcia Ruiz, Head of the Laboratory of Crystallographic Studies of CSIC in Granada. This proposal has yet to be approved by the EFCE.
- Philippe Carvin, the industrial delegate from France, has not been able to participate in the WPC-Meeting for several years because of severe travel restrictions in his company. For the time being Béatrice Biscans will make the link to P. Carvin in order to bring in his opinion or votes.

8. Next meeting of the Working Party on Crystallization. Except for an urgent need not foreseeable at this moment, the next meeting will be held in **Dresden**, Germany, during ISIC16 in September 2005. This meeting shall be used to discuss "non-conference related issues" which had to be postponed because of the planning of ISIC16. One such topic will be the idea of a Summer School, Crystallization courses and Workshops. Further topics will be collected during the various meetings of the ISIC16 Scientific Committee.

Sisseln May 10th, 2004

Minutes of the WPC-Meeting, Zürich, March 8, 2004

[Minutes prepared by R. Spruijtenburg, reviewed by J. Ulrich].