

## European Federation of Chemical Engineering Working Party on Crystallization

Secretariat:

c/o Prof Brian Glennon,  
School of Chemical and Bioprocess Engineering,  
University College Dublin,  
Belfield, Dublin 4,  
Ireland.

phone: +353-1-716-1954

fax: +353-1-716-1177

email: brian.glennon@ucd.ie

**Minutes** of the 45<sup>th</sup> Annual Meeting of the Working Party on Crystallization (WPC) held on 5 April, 2011 in Covance, Porcheville, France.

### Delegates present:

B. Biscans	France
P. Carvin	France
A. Chianese	Italy
B. Glennon	Ireland
P. Koutsoukos	Greece
H. Kramer	The Netherlands
M. Mazzotti	Switzerland
Z. Nagy	United Kingdom
M. Rauls	Germany
M. Stepanski	Switzerland
J. Ulrich	Germany

### Permanent Guests present:

L. Lafferrère France

### Delegates absent and apologies:

Z. Bubnik (apologies)	Czech Republic
C. Campbell (apologies)	Ireland
P. Daudey (apologies)	The Netherlands
J. Gómes-Morales (apologies)	Spain
E. Korin (apologies)	Israel
B. Lakatos (apologies)	Hungary
I. Markovitz (apologies)	Hungary
I. Melikhov	Russia
S. Myasnikov	Russia
F. Paroli (apologies)	Italy
A. Rasmuson (apologies)	Sweden
P. Synowiec (apologies)	Poland

### Permanent Guests absent and apologies:

N. Bulutçu (apologies)	Turkey
R. Geertman	The Netherlands
M. Giulietti (apologies)	Brazil
R. Guardani	Brazil
K.-K. Kim	Korea
R. Spruijtenburg (apologies)	Switzerland

The chairman, Beatrice Biscans, opened the meeting and welcomed all present. Dr Laurent Lafferrère welcomed the Working Party to the Covance facility in Porcheville, France.

### **1. Minutes of last WPC meeting**

The minutes of the last meeting of the Working Party held on 24 March, 2010 in BASF in Ludwigshafen, Germany were approved.

### **2. Announcements of the Chairman**

#### ***Welcome to new delegates***

Professor Zoltan Nagy from University of Loughborough was welcomed as the new academic delegate from the United Kingdom.

Professor Marjatta Louhi-Kultanen from Department of Chemical Technology in Lappeenranta University of Technology was announced as the new academic delegate from Finland.

#### ***Working Party website***

Suggestions were invited for additional content for inclusion on the website. Photographs of crystals and a map of Europe indicating crystallization centres were proposed. Dechema will also be asked whether proceedings from previous ISIC meetings can be uploaded, where available.

#### ***Other announcements***

The European Federation of Biotechnology Section on Biochemical Engineering Science (ESBES) is keen to collaborate with the EFCE. The first collaboration will involve the 1<sup>st</sup> European Congress on Biotechnology being held in parallel with the European Congress of Chemical Engineering (ECCE 8) in Berlin on 25-29 September, 2011.

### **3. ISIC 18 (see [www.isic18.ethz.ch](http://www.isic18.ethz.ch))**

Marco Mazzotti presented a update on the organisation of ISIC 18, to be held in Zurich on 13-16 September, 2011 (see attached slides for details). The budget for the conference is based on 280 delegates, including 80 students.

276 abstracts have been received to date, and are well distributed over the five proposed topic areas. A provisional programme structure has been proposed, subject to final selection of oral presentations. Presenters will be notified of the acceptance of their abstracts during the first week of May. A draft programme will be circulated to delegates prior to this announcement. Abstracts for poster presentation will be accepted until 15 June, 2011, which is the closing date for early registration and for confirmation of attendance by oral presenters. It is anticipated that there will be 70-90 oral presentations.

The structure of the tutorials scheduled for Tuesday 13 September was presented.

Marco Mazzotti agreed to circulate an electronic version of the conference flyer for any delegates who wish to produce a hard copy.

The potential of offering travel grants to the symposium was discussed. Marco Mazzotti will co-ordinate this action with the chairman.

### **4. EFCE Excellence Award in Crystallization**

The EFCE Award for Excellence in Crystallization will be presented at ISIC 18, on Thursday 15 September. Three nominations have been received and will be considered by the committee of



## **Attachment 1**

**ISIC 18 update**

**ISIC 18**

18<sup>th</sup> International Symposium  
on Industrial Crystallization

September 13-16, 2011  
Zurich, Switzerland



## ISIC 18 – WP meeting

Marco Mazzotti  
ETH Zurich

Paris, April 5<sup>th</sup>, 2011



Paris, April 5<sup>th</sup>, 2011

**ISIC 18**

September 13-16, 2011  
Zurich, Switzerland

ETH Zurich



Paris, April 5<sup>th</sup>, 2011

Marco Mazzotti – marcom@ethz.ch

## ISIC18 organization

- ❑ Organization, abstract management and on-site support: AIDIC Milano, [www.aidic.it](http://www.aidic.it)
- ❑ Hotel reservation: Zurich Tourism, [www.zuerich.com/en/welcome.cfm](http://www.zuerich.com/en/welcome.cfm)
- ❑ Lunches and coffee breaks: SV Schweiz, [www.sv-group.ch/de.html](http://www.sv-group.ch/de.html)
- ❑ Conference dinner (Th, 15.09.11): LakeSide, ZH [www.lake-side.ch](http://www.lake-side.ch)
- ❑ ISIC 18 will be carbon neutral through



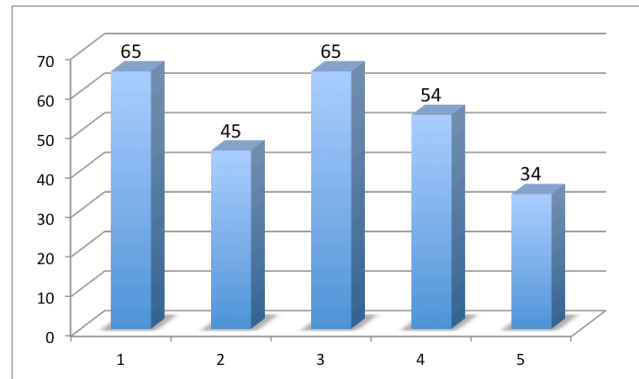
## Fees and budget

	Until June 15 <sup>th</sup>	After June 16 <sup>th</sup>
Delegates	540 €	650 €
Students	380 €	450 €
Accompanying persons	200 €	200 €
Tutorial – delegate	100 €	120 €
Tutorial – student	0 €	0 €

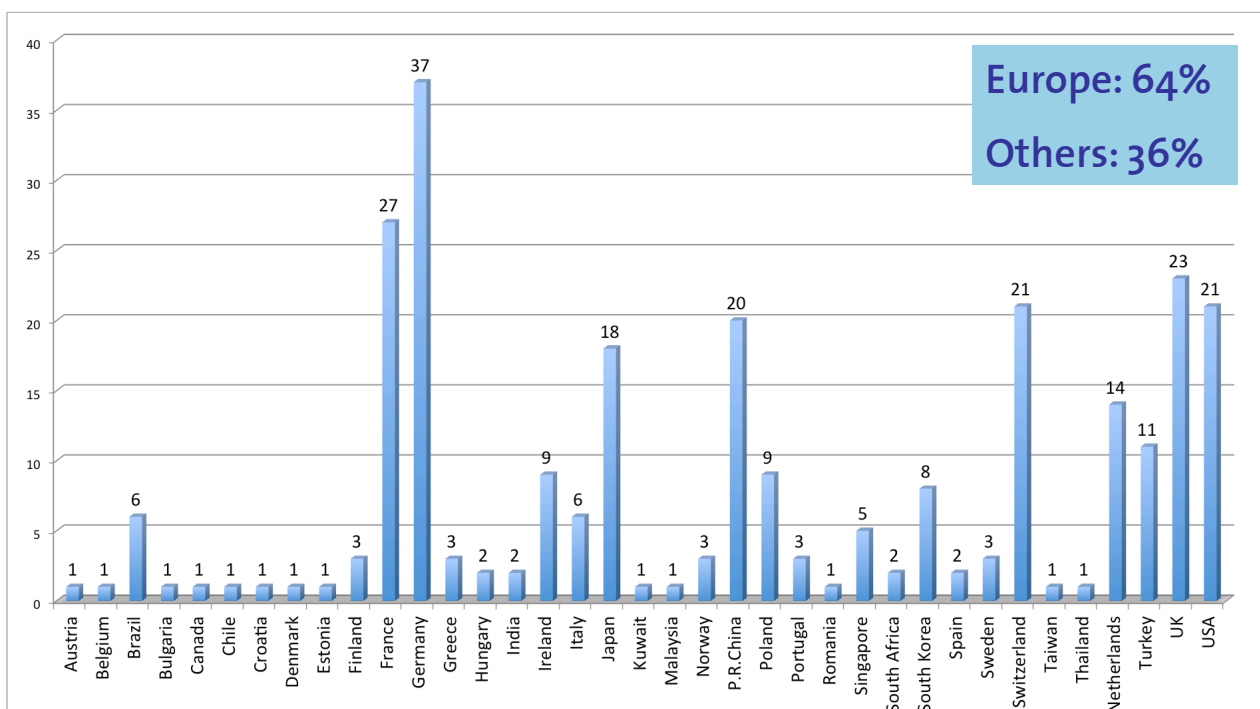
- ❑ *Admission and conference material*
- ❑ Welcome reception (Tuesday)
- ❑ Conference banquet (Thursday)
- ❑ Lunches (Wed, Thu, Fri)
- ❑ Coffee breaks
- ❑ Public transportation pass (4 days)

## 272 abstracts – by topic

1. Fundamentals of crystallization science
2. Characterization and monitoring techniques
3. Design, modeling, scale-up
4. Applications of crystallization
5. Novel directions in crystallization



## 272 abstracts – by nation



## Abstracts reviews

- ❑ 275+ abstracts submitted and currently evaluated (up to 3 reviews per abstract).
- ❑ 47 reviewers (WP, SciComm, LOC).
- ❑ Until end of March received 77% of reviews.
- ❑ 45 abstracts have unanimous “oral” score.
- ❑ 30 abstracts have majority of “oral” scores (2 out of 3).
- ❑ 20 abstracts have one “rejection” score, but no unanimous rejection.
- ❑ After careful scrutiny (for fairness and balance), we can expect between 70 and 90 oral presentations.

## Keynote lecturers

1. **P. Vekilov**, Univ. Houston, *Nucleation of crystals in solution*
2. **G. Sadowski**, TU Dortmund, *Thermodynamic modeling of drug crystallization phenomena*
3. **M. McBride**, Yale Univ., *Grinding to homochirality – The mechanism of Viedma ripening*
4. **D. Ramkrishna**, Purdue Univ., *PBE of shape distributions*
5. **J. Rieger**, BASF, *Nanosopic precursor structures in crystallization-precipitation processes*



## Tutorials – Industrial crystallization processes

### 1. “Fundamental aspects”

- Joop H. ter Horst – TU Delft
- Hugo Meekes – Radboud University Nijmegen

### 2. “Monitoring and control”

- Herman J.M. Kramer – TU Delft
- Zoltan K. Nagy – Loughborough University
- Ali Mesbah – TU Delft
- Gilles Fevotte - Ecole Nationale Supérieure des Mines de St Etienne

### 3. “Thermodynamics-based design and synthesis”

- Christianto Wibowo – ClearWaterBay Technology, California
- Ka Ming Ng – Hong Kong University of Science and Technology

## ISIC 18 program - Draft

<u>Tue pm</u>	Tutorial CONTROL	Tutorial FUND	Tutorial DESIGN
	Welcome Reception		
<u>Wed am</u>	PL 1 Vekilov		
	MODEL 1	CHAR 1	APPL 1
<u>Wed pm</u>	Poster 1		
	PL 2 Sadowski		
	MODEL 2	FUND 1	NOVEL 1
<u>Thu am</u>	PL 3 McBride		
	MODEL 3	FUND 2	APPL 2
<u>Thu pm</u>	Poster 2		
	PL 4 Ramkrishna + EFCE Award		
	CHAR 2	FUND 3	NOVEL 2
	Conference Dinner		
<u>Fri am</u>	MODEL 4	FUND 4	APPL 3
	PL 5 Rieger		

### Plenary

- 1 keynote (40')
- 3-4 oral (20')

### Parallel

- 4-5 oral (20')

### Total

- ~ 80 oral

### Posters

- ~100 + 100

## ISIC 18 program – Specialized pathways

The fundamentalist

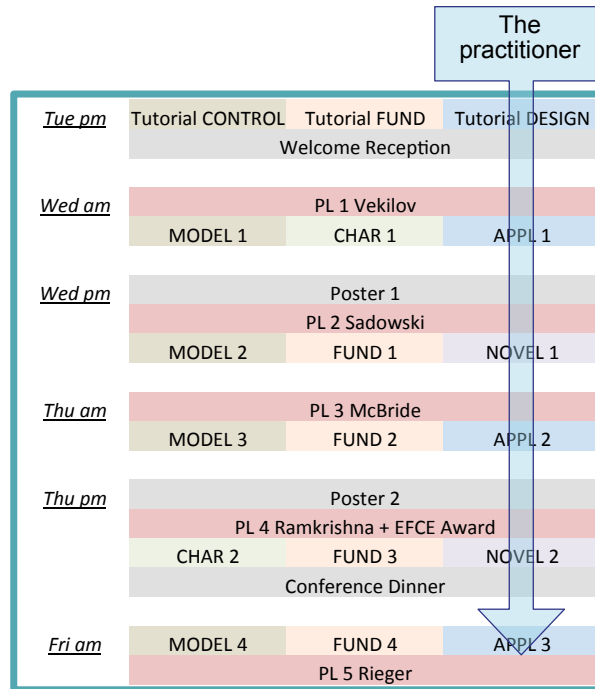
<i>Tue pm</i>	Tutorial CONTROL	Tutorial FUND	Tutorial DESIGN
	Welcome Reception		
<i>Wed am</i>	PL 1 Vekilov		
	MODEL 1	CHAR 1	APPL 1
<i>Wed pm</i>	Poster 1		
	PL 2 Sadowski		
	MODEL 2	FUND 1	NOVEL 1
<i>Thu am</i>	PL 3 McBride		
	MODEL 3	FUND 2	APPL 2
<i>Thu pm</i>	Poster 2		
	PL 4 Ramkrishna + EFCE Award		
	CHAR 2	FUND 3	NOVEL 2
	Conference Dinner		
<i>Fri am</i>	MODEL 4	FUND 4	APPL 3
	PL 5 Rieger		

## ISIC 18 program – Specialized pathways

The mathematical modeler

<i>Tue pm</i>	Tutorial CONTROL	Tutorial FUND	Tutorial DESIGN
	Welcome Reception		
<i>Wed am</i>	PL 1 Vekilov		
	MODEL 1	CHAR 1	APPL 1
<i>Wed pm</i>	Poster 1		
	PL 2 Sadowski		
	MODEL 2	FUND 1	NOVEL 1
<i>Thu am</i>	PL 3 McBride		
	MODEL 3	FUND 2	APPL 2
<i>Thu pm</i>	Poster 2		
	PL 4 Ramkrishna + EFCE Award		
	CHAR 2	FUND 3	NOVEL 2
	Conference Dinner		
<i>Fri am</i>	MODEL 4	FUND 4	APPL 3
	PL 5 Rieger		

## ISIC 18 program – Specialized pathways



## ISIC18 – Next deadlines

### ISIC18 deadlines

Abstracts due:	Feb. 21 <sup>st</sup> , 2011
EFCE Award nominations:	March 31 <sup>st</sup> , 2011
Abstracts acceptance:	May 1 <sup>st</sup> , 2011
Last Minute Abstracts:	June 15 <sup>th</sup> , 2011
Early registration:	June 15 <sup>th</sup> , 2011
Final program:	July 1 <sup>st</sup> , 2011
Full manuscripts <sup>§</sup> :	September 1 <sup>st</sup> , 2011

<sup>§</sup> Manuscript = full research paper