

# **International Fine Particle Research Institute**

## **IFPRI Short Course on Size Reduction**

**Thursday 1<sup>st</sup> July 2010**

**Dorint Hotel, Spa Balmoral, Belgium**

**Organised by Professor M. Ghadiri & Mr N. de Jaeger**

This short course will outline the art and science of size reduction in a condensed one-day meeting, addressing topics on energy utilisation, scale up, modes of breakage, fracture dynamics, role of feed material properties, milling aids and product characteristics as affected by the process and environment for both dry and wet systems. The course will also include dust formation and a new development for simulating attrition in process plants.

The course is intended for scientists, engineers and technologists wishing to gain a quick overview of the subject at a general and non-specialist level. It will be given by a team of lecturers with internationally-leading expertise in their own speciality fields, covering equipment as well as process principles. The outcome of the course should enable the participants to get a more in-depth understanding of how to do size reduction or mitigate undesirable attrition processes and get an informed view of the resulting product characteristics.

### **Provisional Programme**

- 09:00-09:15 Introduction: Industrial relevance, key issues and energy utilisation  
**(Prof. M. Ghadiri, University of Leeds, UK)**
- 09:15-10:30 Equipment review of various technologies  
**(Mr I. Crosley, Hosokawa Micron, Runcorn, UK)**
- 10:30-10:45 Coffee break
- 10:45-12:00 Product characteristics as affected by milling, e.g. dissolution rate, amorphous content, polymorph transformation, hygroscopic effects, etc.  
**(Lecturer to be advised)**
- 12:00-13:00 Lunch break
- 13:00-14:30 Fundamentals of particle breakage as relevant to dry milling  
**(Prof. M. Ghadiri, University of Leeds, UK)**
- 14:30-14:40 Break
- 14:40-16:10 Fundamentals of wet milling  
**(Prof. W. Peukert, Erlangen, Germany)**
- 16:10-17:10 The influence of powder quality on the dispersibility and grindability in wet milling; a comparison between several premilling treatments and milling technologies.  
**(Mr N. de Jaeger, IFPRI, Belgium)**
- 17:10-17:40 Device development for dust metrics  
**(Dr H. Ahmadian, Enzyme Dust Consortium, UK)**
- 17:40-18:00 General Discussion and conclusion

The fee for IFPRI members is covered through their memberships. The course fee for non-IFPRI participants is € 295 and for bonafide PhD students is € 70. The cost for the course is inclusive of lunch, refreshments and the course material. The IFPRI AGM day on Wednesday 30<sup>th</sup> June includes a seminar and a general poster session on the current work of the IFPRI associates in Particle Technology. It will be held at the Chateau de Colonster, Ulg, followed by a banquet in the evening. This day's programme is open to non-IFPRI participants and you are welcome to attend at extra costs given on the next page. If you would like to attend the short course, please fill the enclosed form, and send it to Mr N. de Jaeger, Hoverheide 35, 2540 Hove, Belgium, or fax to +0032 (0) 3 455 7444. You may also contact at +0032 (0) 3 455 9098, or e-mail: nikolaas.dejaeger30@yucom.be. Early booking of your accommodation is highly recommended to ensure bedroom availability.

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### REGISTRATION FORM

Registrations and payment should be sent before Tuesday 1<sup>st</sup> June 2010 (complete the details and tick the relevant boxes):

Title \_\_\_\_\_ Surname \_\_\_\_\_ First name \_\_\_\_\_

Organisation \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

Tel. \_\_\_\_\_ Fax. \_\_\_\_\_

Email: \_\_\_\_\_

**COURSE FEE** including refreshments,lunch and course material: € 295; Students:€ 70  
SEMINAR/POSTER SESSION FEE including refreshments, lunch, banquet:€150; Students:€ 75  
BANQUET ALONE: € 60

**Total:** \_\_\_\_\_

Please send,fax or Email your purchase order to Hoverheide 35, 2540 Hove, Belgium

### MODE OF PAYEMENT

1. Electronic transfer to account nr : 001 3954800 89

IBAN BE45 0013 9548 0089/ BIC GEBABEBB

Account holder :IFPRI-AGM

Bank :BNP PARIBAS FORTIS

2. Fax your Master/Visa card data to the nr +32-3-4557444

Name on the card:

Cardnr :

Expirydate :

3. Send a cheque issued to IFPRI-AGM to the President's Office address:Hoverheide,35,  
2540 Hove-Belgium

### SEMINAR,POSTER SESSION & BANQUET

I would like to attend the Seminar & General Poster Session + the banquet on 30<sup>th</sup> June 2010 YES / NO

**VENUE** The course is held at Dorint Hotel, Spa Balmoral, Belgium, providing an on-site accommodation with complimentary parking; see <http://www.Dorinthotels.com>

**ACCOMMODATION** – If accommodation is needed, the participants are responsible for booking accommodation directly with the hotel. Negotiation is being made to obtain a special deal with the Hotel. If you do not wish to stay at this hotel, alternatively you can book at the SAS RADISSON, Spa Balmoral 200m further on the road.

**Please send completed form to:** Mr N. de Jaeger Tel: +0032 (0) 3 455 9098+ Fax: +0032 (0) 3 455 7444;  
Email: nikolaas.dejaeger30@yucom.be