

# PRACTICAL SEMINAR

## Chewing Gum & Bubble Gum



**30.06. - 02.07.2009**

Start:

Tuesday, June 30, 2009, 10:00

End:

Thursday, July 02, 2009, 14:00

**Seminar Description**

ZDS offers a theoretical and practical course in its facilities on chewing gum and bubble gum technology. During the course the participants will be given theoretical information about ingredients and processes and they will run trials on pilot plant equipment during the practical part.

**One of the highlights of the course will be the demonstration of the production of filled pillows at company Bosch in Viersen.**

**Participants**

This course is intended for:

**Food technologists** from the sugar confectionery industry, who are at the beginning of their career in the industry, or who need further training in the field of chewing gum.

**Technical service and support staff** from the raw material industries.

**Members of the product development department** from the confectionery industry who require a technical introduction to this part of their industry.

**Co-ordinator**

**Andréa Pernot-Barry**, Technical Director ZDS

**Josef Merl**, GlaxoSmithKline Consumer, D-Neuss

**+ lecturers from the supplying industry**

This course will be run as a workshop. We will study the influence of ingredients such as different gum bases, acid, polyols and flavour and of production parameters on chewing gum masses. We will produce mainly stripes and pillows. Participants will have the possibilities to pan centres during the course.

☺ **Please remember to bring a white coat for the practical part of the course**

# Programme

## Tuesday, June 30, 2009

- 10.00 **Welcome**
- 10.10 **Introduction to chewing gum trends and market**
- 10.40 **Gum base: different types and utilisation in the production of chewing gum & bubble gum masses**
- 11.10 Coffee break
- 12.00 **Overview on chewing gum processing**
- 12.30 **Mixing-extrusion of chewing gum**
- 13.00 Lunch
- 14.00 **Presentation of the practical work**
- 14.20 **Practical work**
- Kneading trials showing the influence of
    - particle size of sugar
    - order of addition
    - kneading time
  - Production of pillows and stripes
- In between coffee break
- 17.00 **Lab equipment for chewing gum manufacturing**
- 17.30 End of the first day
- 18.00 Light dinner

## Wednesday, July 1, 2009

- 09.00 **Sensory evaluation of chewing gums and bubbles gums**
- Physical parameters
  - Long lasting
- 09.30 **Practical work**
- Kneading trials showing the influence of
    - gum base types
    - presence of acid
  - Production of pillows and stripes
- 11.00 Coffee break
- 11.30 **Polyols in the manufacture of chewing gum**

- 12.30 **New technologies in the manufacture of chewing gum**
- 13.00 Lunch
- 14.00 **Practical work**
- Kneading trials showing the influence of:
    - type of polyols
  - Production of pillows and stripes
- 15.40 Coffee break
- 16.00 **Flavouring of chewing gum and bubble gum masses**
- 16.30 **Practical work**
- Kneading trials showing the influence of flavour types
  - Production of pillows and stripes
- 18:00 Dinner

**Thursday, July 2, 2009**

- 9.00 **Emulsifiers for chewing gum and gum base**
- 9.30 **Soft and hard panning of chewing gum and bubble gum**
- 9.45 **Practical work**
- Production of cut and wrapped bubble gums
  - Panning of chewing gum centres
- 11.45 **Departure to company Bosch, Viersen**
- 12.30 **Liquid filled Chewing Gum with Uniplast Technology**
- 13.00 Snack
- 13.30 **Demonstration of the production of liquid filled pillows**
- 14.00 Return to ZDS / End of the course

**- subject to alteration -**



<b>Date / Venue</b>	Tuesday, June 30, 2009, 10:00 until Thursday, July 2, 2009, 14:00	
	Zentralfachschule der Deutschen Süßwarenwirtschaft De-Leuw-Str. 3 - 9 D - 42653 Solingen-Gräfrath - Germany	
<b>Registration &amp; Hotel Reservation</b>	ZDS - Seminar-Service Phone: +49 / 212 / 59 61-32 Fax: +49 / 212 / 59 61-33 <a href="http://www.zds-solingen.de">http://www.zds-solingen.de</a> <a href="mailto:schmidt@zds-solingen.de">schmidt@zds-solingen.de</a>	
<b>Fee</b>	Members of the ZDS Association	€ 1.210,-
	Non-members	€ 1.490,-
<b>Seminar-Number</b>	<b>PEO-69</b>	

## Terms of Participation

### Registration –

The number of participants in our seminars is sometimes limited. We therefore kindly request that you register as soon as possible in writing with the ZDS. Registration is binding as soon as it is confirmed by ZDS in writing.

### Fees for participation –

Fees in full are due upon receipt of invoice. Money transfers to the ZDS are to be made free of charge for ZDS. Please send money only after having been invoiced. Participation is only possible after receipt of payment. Credit-cards (VISA/Euro-/MasterCard/Diners Club) are accepted. If two or more participants are registered by the same company, each participant receives a deduction of 5% on the respective fee.

### Travel / Accommodation –

Travel information and directions will be sent out with the registration confirmation. Costs incurred for possible overnight accommodations are not included in the seminar fee. If requested we will be glad to help with hotel reservations.

### Organisation –

ZDS reserves the right to change speakers and/or shift or change the programme schedule. The number of participants is limited, and in case of overbooking ZDS will give information on a repeat seminar as soon as possible. If there is insufficient participation, ZDS reserves the right to cancel or postpone a seminar. ZDS can not guarantee for the attendance of competitors at demonstration events held outside its premises. If conference proceedings are distributed, they will be written in the language in which they were presented.

### Cancellation –

Please understand that we have to charge 10% of the seminar fee for cancellations up to two weeks and 50% for cancellations up to one week prior to the seminar for administrative expenses. Later cancellations will be invoiced with 100% of the seminar fee. We will certainly accept a substitute participant without additional costs.

If the event is cancelled by the organiser, the fee will be reimbursed totally.

### Liability –

In the event that seminars are cancelled for reasons for which ZDS is responsible, reimbursement is limited to refunding already paid seminar fees. Any further claims are excluded.

### Protection of Personal Data –

In compliance with the stipulations of the German Federal Law on Protection of Personal Data we hereby inform you that addresses of interested persons and seminar participants will be electronically stored with the intention to forward programmes and seminar information of ZDS.

## REGISTRATION / PEO-69

Practical Seminar in Chewing & Bubble Gum Technology  
(June 30 – July 2, 2009)

FAX: +49 - 212 - 59 61 33

Mr     Ms

**Surname** \_\_\_\_\_

**First Name** \_\_\_\_\_

**Company** \_\_\_\_\_

**Address of the company** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Country** \_\_\_\_\_

**Phone no.** (with country code) \_\_\_\_\_

**Fax no.** \_\_\_\_\_

**E-mail address** \_\_\_\_\_

Hotel reservation:     yes     no    from ..... to .....

If you prefer to pay the seminar fees with credit-card please fill in:

VISA     Euro-/MasterCard     Diners Club

No. of credit-card: .....    Valid dates: .....

\_\_\_\_\_  
Signature incl. company stamp

\_\_\_\_\_  
Date