



European  
Society  
for Sugar  
Technology



## 2nd ESST Conference

### Programme

Joint meeting with

Verein Deutscher Zuckertechniker

and

Fachverein der Zuckerfabriken Österreichs

Bratislava, 30 May to 1 June 2011

## Registration

Sunday, 29 May 15 to 17 h  
Radisson Hotel

Monday, 30 May 10 to 17 h  
Radisson Hotel

## Sunday, 29 May 2011

- 15 h ESST Board  
Carlton Hall
- 16 h 30 ESST Council  
Carlton Hall
- 19 h ESST Reception  
Oasis Restaurant

## Monday, 30 May 2011

- 8 h 30 VDZ-Ausschuss für Preisarbeiten  
Room: Mirror Hall
- 9 h 30 VDZ-Vorstandssitzung  
Room: Mirror Hall
- 9 h 30 ESST Scientific Committee  
Room: Carlton Hall
- 17 h 00 ISSCT Landesverband Deutschland  
Room: Boardroom 2

## Monday, 30 May 2011

14 h      Opening –  
Ivan Gašparovič  
President of the Slovak Republic

### **Raw Sugar Refining** – Chairman: Martin Bruhns

- 14 h 20    Stefan Pfau, Günther Ahring: Comparison of two different techniques for sugar liquor decolourisation in a raw sugar refinery
- 14 h 45    Carsten Irmer: Economic purification of raw melt in beet sugar factories
- 15 h 10    Coffee Break
- 15 h 45    Vadim Kochergin: Quality of raw sugar and refining possibilities in the beet sugar factories
- 16 h 10    Fernando Martín, Marta G<sup>a</sup> de Quevedo, Laura Diego, Jaime Sagristá: Factors affecting colour removal in a refinery
- 16 h 35    Martin Bruhns: Cane raw sugar – quality criteria and classification of raw sugars
- 17 h      End

### **Evening Programme**

- 19 h      Reception hosted by Verein Deutscher Zucker-techniker Zweigverein Süd at the Bratislava Opera House
- 20 h      Bratislava Opera – Best of the season  
(End: 21 h 20)

9 h Plenary Session –  
Johann Marihart: The 2020 challenge for the EU  
sugar industry

**New Developments** – Chairman: John Jensen

9 h 35 Irina Sterr and Ulrich Kettling: Liquefied sugar  
beet (LSB) as alternative fermentation substrate

10 h Piotr Wawro, Radosław Gruska, Maciej  
Stanisz: Thickened raw juice – some aspects of  
thickening and use

10 h 25 Coffee Break

10 h 55 Robert Grabarczyk, Emmanuel Koukios,  
Krzysztof Urbaniec, Giuseppe Vaccari: Options  
of sugar beet pretreatment for hydrogen  
fermentation

11 h 20 Teun van der Weg: Biogas production at Suiker  
Unie

11 h 45 Michael Hünerlage: Lime kilns for beet, cane  
and refinery processing – improvements and  
innovations

12 h 10 Lunch

**General Sugar Technology** – Chairman: Walter Hein

14 h Quido Smejkal, Nebojša Francuski, Thomas  
Frankenfeld: Analysis of sucrose in diluted  
solutions at Aarberg sugar factory

## Tuesday, 31 May 2011

- 14 h 25 Christer Bergwall: Legionella in sugar factory process waters – Analysis and control in Nordic Sugar
- 14 h 50 Gillian Eggleston, Jean-Marc Huet: The Measurement of mannitol in a beet sugar factory to monitor deterioration and processing problems
- 15 h 20 Coffee Break
- 16 h Garry Bowler, Simon Wones: Application of dextranase in sugarbeet factories
- 16 h 25 Andre Pollex, Felix Czapla, Birgit Kerner, Rudolf Podolsky: Soil sieving machines for smell reduction
- 16 h 50 End

### Guest Programme

- 9 h Departure to Modra, in the Little Carpathian mountains to see local pottery
- 12 h Lunch at "U Richtera", Modra
- 14 h Guided tour through Bratislava (till ca. 15 h 30)

### Evening Programme

- 19 h Reception hosted by Fachverein der Zuckerfabriken Österreichs  
Restaurant Flagship  
Námestie SNP c. 8, 81106 Bratislava

9 h VDZ-Hauptversammlung  
(only for VDZ members)

**Tagesordnung**

1. Begrüßung und Bericht des Vorstandes
2. Bericht des Geschäftsführers
3. Bericht der Rechnungsprüfer
4. Entlastung des Vorstandes
5. Wahl der Rechnungsprüfer
6. Wahl des ausländischen Vorstandsmitgliedes
7. Bericht aus dem Ausschuss für Forschung und Prüfung von Preisarbeiten
8. Bekanntgabe des Tagungsortes 2012
9. Verschiedenes

**Nitrite In Molasses** – Chairman: Stefan Frenzel

- 10 h Anne Jacob Waterlander: Legal background and nutritional aspects of nitrite in feed
- 10 h 20 Hanjo Puke: Nitrite in feed – An analytical challenge
- 10 h 45 Stefan Frenzel, Mats Bengtsson: Nitrite in the process of sugar manufacture – a literature review
- 11 h 05 Discussion on nitrite in molasses
- 11 h 15 Coffee Break

**Beet Quality Related To Long Processing Campaigns**

– Chairman: Jan Maarten de Bruijn

- 11 h 45 Walter Hein, Hans Bauer, Florian Emerstorfer: Processing of long-stored sugar beet
- 12 h 10 Evžen Šárka, Zdeník Bubník, Pavel Kadlec: Experience of Czech sugar factories with prolonged campaigns in winter
- 12 h 35 Florian Emerstorfer, Walter Hein, Hans Bauer: Evaluation of an alternative method for the prediction of the technological beet quality
- 13 h Closing remarks

## Posters

Fahmi Brahim, Steffen Kaufmann:

Extension and optimisation of Cosumar's Casablanca sugar refinery in Morocco

Bernd-Christoph Schulze, Oliver Tzschätzsch, Dennis Costesso:

Fractal shallow bed ion exchange technology – a flexible solution for today's sugar processing

Maciej Wojtczak:

Monitoring the content of mannitol and dextran in raw juice during sugar campaign

Martin Bruhns, Jan Maarten de Bruijn:

Current understanding of beet quality parameters affecting processing performance – A survey of the ESST Scientific Committee

Sigurd Schuetz, Dietmar Koch, Katja Duddek:

RHEWUM's reliable and economical solutions for screening and conveying in the sugar industry

Hartmut Hafemann, Henning Griebel:

Applications for drying and cooling sugar in respect of specific needs and ambient conditions

Bertrand Gaillac, Coraline Trintignac:

Technical improvements for digital on-line colour analyzer

Oliver Vidal:

Strong and flexible thermal and environmental coupling between pulp drying and sugar process

## Organizers

ESST – European Society for Sugar Technology  
[www.esst-sugar.org](http://www.esst-sugar.org)

VDZ – Verein Deutscher Zuckertechniker  
[www.zuckertechniker.de](http://www.zuckertechniker.de)

FZÖ – Fachverein der Zuckerfabriken Österreichs

ESST Programme Committee

J.M. de Bruijn (President)

M. Bruhns

T. Frankenfeld

J. Jensen

G. Schrevel



## ESST Members

### Sugar producers

AGRANA Zucker GmbH  
The Andhra Sugars Ltd  
Azucarera Ebro, S.L.  
British Sugar plc  
Co.Pro.B.  
Cristal Union  
Groupe Vermandoise  
HSI – Hellenic Sugar Industry S.A.  
Krajowa Spółka Cukrowa S.A.  
Lantic Sugar Inc.  
Nordzucker AG  
Pfeifer & Langen KG  
Südzucker AG  
Suiker Unie  
Zuckerfabriken Aarberg und Frauenfeld AG

### Sugar Technologists Associations

American Society of Sugar Beet Technologists  
Associazione Nazionale fra i Tecnici dello Zucchero e dell'Alcole  
Fachverein der Zuckerfabriken Österreichs  
SNFS – Syndicat National des Fabricants de Sucre de France  
Stowarzyszenie Techników Cukrowników  
Verein Deutscher Zuckertechniker

### Suppliers

Anton Paar OptoTec GmbH  
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BetaTec Hopfenprodukte GmbH  
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Büttner Gesellschaft für Trocknungs- und Umwelttechnik mbH  
BWS Technologie GmbH  
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EATON Filtration GmbH

## ESST Members

Eberhardt GmbH  
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ESCON Engineering Services & Consulting GmbH  
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Sugars International LLC  
Sulzer Pumps Finland Oy  
Venema Automation N.V.  
W. Kunz dryTec AG

