



# 4th ESST Conference

## Programme

Joint meeting with  
Verein Deutscher Zuckertechniker and  
Syndicat National des Fabricants de Sucre (SNFS)

Centre des Congrès  
Reims, 10 to 13 May 2015

## Registration

Sunday, 10 May 16 to 19 h  
Hôtel de la Paix

Monday, 11 May 10 to 14 h  
Centre de Congrès

## Sunday, 10 May 2015

- 15 h ESST Board  
Hôtel de la Paix, Salon Rome
- 16 h 30 ESST Council  
Hôtel de la Paix, Salon Rome
- 19 h ESST Reception  
Hôtel de la Paix

## Monday, 11 May 2015

- 8 h 30 VDZ-Ausschuss für Preisarbeiten  
Hôtel de la Paix, Salon Bruxelles
- 9 h 30 ESST Scientific Committee  
Hôtel de la Paix, Salon Londres
- 10 h VDZ-Vorstandssitzung  
Hôtel de la Paix, Salon Bruxelles
- 17 h ISSCT Landesverband Deutschland  
Centre de Congrès, Salon 1-2

## Monday, 11 May 2015

14 h      Opening  
            B. Hot

### **Nitrite** – Chairman: Arend Wittenberg

14 h 30    S. Frenzel  
            Update on nitrite in animal feed

15 h 00    Coffee Break

### **General Sugar Technology** –             Chairman: Arend Wittenberg

15 h 30    V. Kochergin, R. Howe, O. Tzschätzsch  
            Analysis of recycle streams in the beet sugar  
            processing: productive approach to generate  
            new projects

15 h 55    A. Bagherzadeh, U. Freißlich, Q. Smejkal,  
            Th. Frankenfeld  
            Optimization of heat economy by sugar  
            production in the sugar factory Aarberg

16 h 20    Th. Schulze, A. Lehnberger, J. Pfauntsch,  
            Th. Frankenfeld  
            A look at technological and technical tower  
            extraction trends

16 h 45    F. Majchrzak  
            Crystallization with feed syrups of high DS  
            content

17 h 10    End

### **Evening Programme**

19 h      Reception at Palais de Taux  
            (reception ends at 21 h)

**Poster** – Chairman: Jan Maarten de Bruijn

9 h Introduction to Posters

10 h 20 Coffee Break

**Environmental Technologies** – Chairman: Anne Jacob Waterlander

10 h 50 A. Wittenberg, M. Roukema, J. Struijs,  
O. van Baal  
Suiker Unie Masterplan: Sustainable approach  
towards the new EU-sugar market era

11 h 15 T. Grootsholten, J. Raap, V. Hoffmann,  
R. Heringa, P. Gulden  
Suiker Unie perspective on reducing odour  
emissions in the water-circuits of sugar factories

11 h 40 H.-J. Jördening, R.-M. Schoth, C. Pipper,  
R. Egholm  
New method for an enhanced (re)-activating  
process of anaerobic plants

12 h 05 P. Hamon  
Water: a strategic role in sugar beet industry and  
circular economy

12 h 30 Lunch

**General Sugar Technology** – Chairman: Piotr Wawro

14 h O. Deur, Y. Chryat  
Designing a drying process using superheated  
steam at low pressure

14 h 10 A.S. Jensen, B. Morin  
Energy and environment by beet sugar  
production

14 h 20 S. Staufer  
Operational experience with the new generation  
of low temperature belt dryers for sugar beet  
pulp

## Tuesday, 12 May 2015

- 14 h 30 G. Caspers, K. Nammert, H. Fersterra,  
H. Hafemann  
Environmental technology: Fluidised-bed steam  
driers – latest developments and practical  
experience
- 14 h 40 Discussion
- 14 h 50 Coffee Break

### General Sugar Technology –

Chairman: Florian Emerstorfer

- 15 h 20 M. Wojtczak, A. Antczak-Chrobot, R. Gruska,  
P. Mikol  
Dextran molecular mass effect on particle size  
distribution for 2nd carbonatation
- 15 h 45 A. Degenhardt  
Authenticity of sugar – Identification of source &  
determination of geographical origin of sucrose
- 16 h 10 R. Aubry, L. Gasnot  
Fate of formaldehyde in sugar processes and  
products
- 16 h 35 J. Foucart  
Innovation on the beet washing station of  
Etrépagny
- 17 h 00 End of Session

### Guest Programme

- 8 h 45 Meeting at the Congress Center
- 9 h Departure by coach to a Champagne vineyard  
and the Verzenay lighthouse
- 12 h 00 Lunch in a local restaurant,  
Visit of Hautvillers Village
- 16 h Return to Congress Center

### Evening Programme

- 17 h 30 First bus leaves for visit of Pommery cellar,  
followed by Gala Dinner at Cabaret;  
Return to hotel ca. 23 h 15

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 des Vorstandes
6. Wahl der Rechnungsprüfer
7. Bericht aus dem Ausschuss für Forschung und Prüfung von Preisarbeiten
8. Bekanntgabe des Tagungsortes 2016
9. Satzungsänderungen
10. Verschiedenes

**Crystallization** – Chairman: John Jensen

- 10 h      Invited Speaker: T. Bergfors  
Protein crystallization: Techniques, victories, and challenges
- 10 h 40    F.J. Aguilochó, M. García de Quevedo,  
J. Gabandé, H. Castaño, L. Diego  
The influence of temperature and pH in the sugar end
- 11 h 05    K. Schlumbach, M. Scharfe, A. Pautov, E. Flöter  
Color transfer into the sucrose crystallized from mixed juices
- 11 h 30    Coffee Break

**General Sugar Technology** – Chairman: John Jensen

- 12 h      W. Hein, F. Emerstorfer  
Technological beet quality: Alternative predictive models by utilizing the dry substance of beet digerate
- 12 h 25    J. Folm-Berg  
On geocoding for managing supply of sugar beets
- 12 h 50    Closing remarks

### Poster Session – Chairman: Jan Maarten de Bruijn

1. T. Veerman, D. Vermeulen, M. v. Dijk, J. Struijs, B. d. Crom  
Reduction of odour emission by carbonatation vapour  
Condensation
2. M. Bruhns  
Considerations about mass and energy flow in vacuum  
pans (discontinuous evaporating crystallizers)
3. El-Sayed A. Abdel-Rahman; S. El-Syiad, T. Kurz,  
Eckhard Flöter  
Sensitivity and accuracy of the common methods for  
the determination of dextrans of varying molecular  
mass
4. K. Abraham, S. Hagen, K. Schlumbach, E. Flöter  
Enzymatic decomposition of dextran in sucrose solu-  
tions
5. D. Paillard  
Innovative concepts of regeneration of decolorization  
ion exchange resins in sugar refineries
6. B. Bartels, L. Marsal, R. Delecourt  
Update on pulse electric field developments for juice  
extraction
7. D. Seebaum, A. Seidler, S. Weidner, B. Brennecke  
Innovative approach to optimize productivity and  
energy demand of batch-type centrifugals



## Posters

8. L.W. Weiss  
Process modeling using Sugars™ – beet factory
9. R. Timmers, M. Schürmann  
Sustainability of sugar silos
10. B. Morgenroth  
The future beet sugar factory
11. B. Gaillac  
On-line crystal growth monitoring and sugar color measurement using image processing techniques.
12. J.M. Chauwin, B. Launay, E. Van Haute  
Monochloramine for the replacement of formaldehyde in sugar beet process (diffusion)
13. A. Mesmacque, X. Lamblin  
Falling film evaporators in beet and cane industries
14. M. Wojtczak, A. Antczak-Chrobot, P. Mikol, M. Molska, A. Papiewska  
The changes in the content of organic acids and inorganic anions in sugar beets during long term storage
15. G. Eggleston, A. Vawda, I. Lima, E. Sarir, J. Thompson, J. Zatlokovicz, E. St. Cyr  
How activated carbons can be used to remove undesirable residual amylase, insoluble starch, and select colorants from refinery streams
16. J.P. Jensen, H. Nurmi, M. Muntola, I. Weiergang  
Experiences with glucose determination in Finnish beet

## Directions for Monday and Tuesday Evening

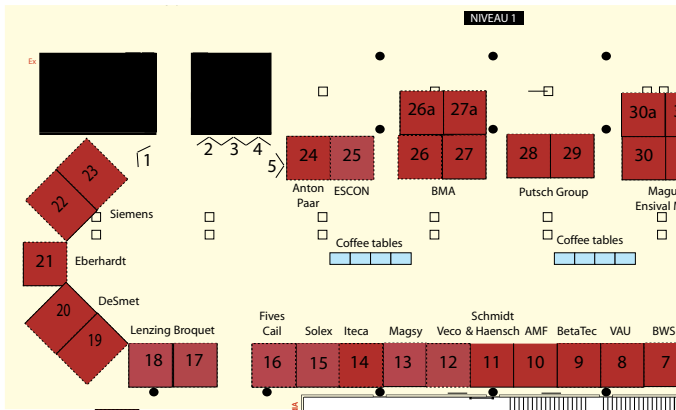


- 1 Hôtel de la Paix
- 2 Holiday Inn
- 3 Grand Hôtel du Nord
- 4 Ibis Style
- 5 Mercure Reims Cathédrale
- 6 Campanile Centre
- 7 Suite Novotel
- 10



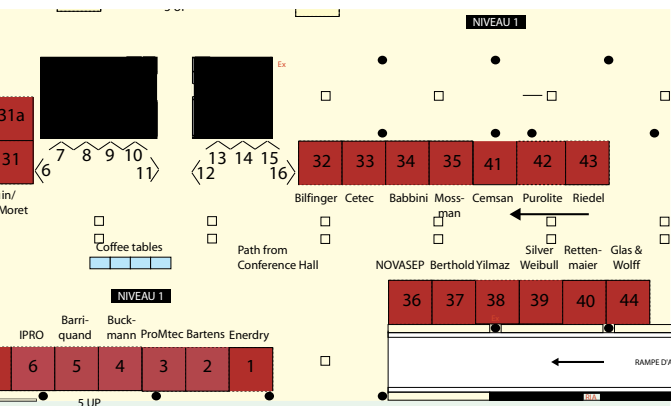
- B Bus Stop at Centre de Congrès
- E Entrance to Centre de Congrès
- T Palais du Taux (next to the Cathedral)

# Exhibition



## Exhibitors

AMF - Bruns GmbH & Co. KG	9
Anton Paar OptoTec GmbH	24
Babbini S.p.A.	34
Barriquand Technologies Thermiques	5
Berthold France SAS	37
BetaTec GmbH	9
Bilfinger Water Technologies	32
BMA Braunschweigische Maschinenbauanstalt AG	26-27
Broquet Pumps	17
Buckman Laboratories Europe N.V.	4
BWS Technologie GmbH	7
Çemsan A.S	41
CETEC Industrie	33
De Smet S.A. Engineers & Contractors	19-20
Eberhardt GmbH	21
EnerDry A/S	1
Ensival Moret France	30-31
ESCON GmbH	25
Fives Cail	16
Glaß & Wolf Metalltechnik GmbH & Co. KG	44



GPS Engineering	34
IPRO Industrieprojekt GmbH	6
Iteca Socadei SAS	14
J. Rettenmaier & Söhne GmbH + Co. KG	40
Lenzing Technik GmbH	18
Magsy, s.r.o.	13
Maguin S.A.S.	30-31
MK Energies	30-31
Mosmann Stainless Steel	35
Novasep SAS	36
proMtec Theisen GmbH	3
Putsch Group	28-29
Riedel Filbertechnik GmbH	43
Schmidt + Haensch GmbH & Co.	11
Siemens AG	22-23
Silver Weibull Sweden AB	39
Solex Thermal Science, Inc.	15
VAU Thermotech GmbH & Co. KG	8
Verlag Dr. Albert Bartens KG	2
VECO B.V.	12
Yilmaz Makina Sanayi ve Ticaret Ltd.	38

## ESST Members

### Sugar producers

Acor  
AGRANA Zucker GmbH  
The Andhra Sugars Ltd  
Azucarera Iberia, S.L.  
British Sugar plc  
Co.Pro.B.  
Cristal Union  
HSI – Hellenic Sugar Industry S.A.  
Krajowa Spółka Cukrowa S.A.  
Lantic Sugar Inc.  
Lesaffre Frères SAS  
Nordzucker AG  
Pfeifer & Langen GmbH & Co. KG  
Schweizer Zucker AG  
Shakarganj Mills Limited  
Südzucker AG  
Suiker Unie  
Tereos Sucres

### Sugar Technologists Associations

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

### Suppliers

A.KRÜSS Optronic GmbH  
ARi Amalgamated Research Inc.  
Avance Management Services Ltd.  
Anton Paar OptoTec GmbH  
BMA Braunschweigische Maschinenbauanstalt AG  
BWS Technologie GmbH  
Babbini S.p.A.  
Barriquand Technologies Thermiques  
BetaTec Hopfenprodukte GmbH  
Bilfinger Water Technologies  
Broquet Pumps

## ESST Members

Carbo Solutions International LLC  
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Defotec Entschäumer Vertriebs GmbH  
De Smet S.A. Engineers & Contractors  
EATON Technologies GmbH  
ESCON Engineering Serv. & Cons.GmbH  
Eberhardt GmbH  
EnerDry A/S  
Ensival Moret France  
FLSmidth Wiesbaden GmbH  
GEA Heat Exchangers  
GPS Engineering s.r.l.  
Gaudfrin  
Germaines Seed Technology  
IKB Industrieplanung GmbH  
IPRO Industrieprojekt GmbH  
Iteca Socadei SAS Color & Vision Dpt  
JVK Filtration Systems GmbH  
KS Klemens Senkowski  
KWS SAAT AG  
Keller & Bohacek GmbH & Co. KG  
Mausa S.A. Equipamentos Industriais  
Maguin S.A.S.  
Mosman Stainless Steel  
Nalco Europe BV  
Neltec Denmark A/S  
Novasep Process SAS  
proMtec Theisen GmbH  
Putsch GmbH & Co. KG  
Riedel Filtertechnik GmbH  
Rotex Europe Ltd.  
SESVanderHave N.V./S.A.  
Siemens AG  
Sadam Engineering srl  
Schill+Seilacher „Struktol“ GmbH  
Schmidt + Haensch GmbH & Co.  
Silver Weibull Sweden AB  
Solex Thermal Science, Inc.  
Stord International AS  
Sugars International LLC  
Sulzer Pumps Finland Oy  
VECO B.V.  
W. Kunz dryTec AG, SwissCombi

## 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)

ESST Programme Committee

J.M. de Bruijn (President)

T. Koch

T. Frankenfeld

J. Jensen

## Bus schedule for Tuesday evening

Congress Center	Pommery Tour			CABARET
	Start	End	Departure	Arrival
5:30 pm	5:50 pm	6:20 pm	7:15 pm	7:35 pm
5:50 pm	6:10 pm	6:40 pm	7:15 pm	7:35 pm
6:00 pm	6:20 pm	6:50 pm	7:15 pm	7:35 pm
6:10 pm	6:30 pm	7:00 pm	7:15 pm	7:35 pm
6:20 pm	6:40 pm	7:10 pm	7:30 pm	7:50 pm
6:30 pm	6:50 pm	7:20 pm	7:40 pm	8:00 pm
6:40 pm	7:00 pm	7:30 pm	7:50 pm	8:10 pm
6:50 pm	7:10 pm	7:40 pm	8:00 pm	8:20 pm

Start Programme at Cabaret

8:30 pm