



5th ESST/VDZ Conference

Programme

International Congress Centrum
Dresden, 21 to 24 May 2017

Registration

Sunday, 21 May 16 to 19 h
Maritim Hotel

Monday, 22 May 10 to 14 h
International Congress Center

Sunday, 21 May 2017

- 15 h ESST Board
International Congress Center, Room 4
- 16 h 30 ESST Council
International Congress Center, Room 4
- 19 to 21 h ESST Reception
International Congress Center

Monday, 22 May 2017

- 8 h 00 VDZ-Ausschuss für Preisarbeiten
International Congress Center, Room 4
- 9 h 30 ESST Scientific Committee
International Congress Center, Room 5
- 10 h VDZ-Vorstandssitzung
International Congress Center, Room 4
- 11 h Erweiterter VDZ-Vorstand
International Congress Center, Room 4

Tuesday, 23 May 2017

- 17 h 10 ISSCT Landesverband Deutschland
International Congress Center, Room 4

ESST – European Society for Sugar Technology
www.esst-sugar.org

VDZ – Verein Deutscher Zuckertechniker
www.zuckertechniker.de

Monday, 22 May 2017

14 h Opening
 P. Mesters, T. Kuhlmann

Microbiology and Co-products – Chairman: F. Emerstorfer

14 h 10 W. Antheunis, C. Bergwall, M. van den Blik,
 M. Goddard, M. Jacobs, M. Klingeberg,
 M. Oakley-Heemels, M. Omann
 New microbiological challenges for the sugar
 industry

14 h 35 M.S. Wright
 Microbiology in the sugar industries

15 h 00 Coffee break

15 h 30 G. Kozianowski
 Nitrite: Review of existing and new physiological
 data in ruminants

15 h 55 K. Abraham, E. Flöter
 New approaches for the determination of
 dextran in the sugar production process

16 h 20 M.O. Nielsen, K. Larsen, A.S. Jensen,
 H.H. Hansen
 Steam drying compared to drum drying
 increases early phase in vitro rumen
 fermentability of sugar beet pulp

16 h 45 A.G. Degenhardt, B. Faulhammer, H.-G. Burow
 Ignition and burning behaviour of products and
 co-products of the sugar beet production – an
 evaluation of selected products in their storage
 formats from a fire protection viewpoint

17 h 10 End

Evening Programme

18 h 00 Walk through Dresden to the restaurant
 “Pulverturm” (19 h)

Posters – Chairman: J.M. de Bruijn

9 h Introduction to Posters

10 h 25 Coffee break

Environment – Chairman: J. Jensen

10 h 55 N. Antens, J. Struijs, F. Caljouw, L. Rietsema
Reduce odor and NH₃ emission: condensation of the carbonatation vapors

11 h 20 R.M. Schoth, C. Pipper, J. Jeppesen
An economical and effective upgrading of a current anaerobic effluent treatment system based on a granular sludge bed reactor implemented in an existing asset

11 h 45 C. Schweitzer
Alternatives for the utilization of electricity in the context decreasing power prices and regulated CHP shut down in the sugar industry

12 h 10 Lunch

Co-products and Environment – Chairman: S. Frenzel

14 h 00 J. Seemann, T.J. Koch
Beet pulp in material applications

14 h 25 D. Nouws, A. Wittenberg, J. Struijs
Approach to better beet washing. Part II

14 h 50 A. Versteyl, J. Pötzl, M. Sauer
Modification and expansion of sugar production plant from a legal point of view

15 h 10 Coffee break

General Sugar Technology – Chairman: T. Frankenfeld

- 15 h 45 P. Bruhns, T. Koch, L.W. Kroh
Studies on the storage stability of white beet
sugar depending on its quality
- 16 h 10 A. Antczak-Chrobot, M. Wojtczak
Exopolysaccharides in sugar manufacturing
- 16 h 35 C. Mayhew, C. Parker, R. Howe, C. Haynes,
C. Rhoten
Linear pan growth control: a dual brix approach
- 17 h 00 End

Guest Programme

- 9 h 15 Meeting at the Entrance of Hotel Maritim
- 9 h 30 Visit of the old Dresden, the new Dresden
and Pillnitz Castle
Cheese, milk and wine at famous
„Pfund's Molkerei“ in Dresden
- 15 h 30 Coffee and cake on a steam boat
- 17 h Return to Hotel Maritim

Evening Programme

- 18 h 30 Reception at Conference Center
- 19 – 23 h Gala Dinner with music and dance

9 h VDZ-Hauptversammlung
(nur für VDZ-Mitglieder / only for VDZ members)

Tagesordnung

1. Eröffnung und Begrüßung
2. Bericht des Vorstandes
3. Bericht des Geschäftsführers
4. Bericht der Rechnungsprüfer
5. Entlastung des Vorstandes
6. Wahl der Rechnungsprüfer
7. Bericht aus dem Ausschuss für Forschung und Prüfung von Publikationen
8. Bekanntgabe des Tagungsortes 2018

General Sugar Technology – Chairman: A. Wittenberg

- 10 h Invited Speaker: A. de Haan
Intensification of biobased chemicals
manufacturing
- 10 h 40 S. Royce, D. Simkiss, C. Rhoten, M. Blowers,
R. Howe
Factory trial: Dorr versus BMA65
- 11 h 05 Coffee break
- 11 h 30 N. Rösch
The right approach how to design the
conditioning system of a sugar silo
- 11 h 55 A. Antczak-Chrobot, N. Głowacka,
A. Janiszewska, M. Wojtczak
Isolation and identification of exopolysaccharides
formed during degradation of frost damaged
beets
- 12 h 20 R. Daniels, D. Nouws, A. Wittenberg
Improved image analysis system for technical
sugar crystal suspensions at Suiker Unie
- 12 h 45 Closing remarks
- 13 h 00 End of conference

Posters

Poster Session – Chairman: J.M. de Bruijn

Position of poster walls, see exhibition map. p. 12/13

1. T. Holcomb, T. Diring
Optimizing the work of continuous centrifugals by monitoring the sugar colour inline
2. C.K. Kohout, R.R. Reiner, C.A.S. Shelswell, F. Emerstorfer, J.M. Grech, J. Forte
Investigation of hop alpha acids for the use in the sugar factory
3. S. Martinek, F. Emerstorfer, C.A.S. Shelswell, W. Schnitzhofer
Pilot scale 2-step fermentation of hydrogen and methane from sugar rich substrates
4. A. Antczak-Chrobot, P. Mikoś, A. Papiewska, I. Błaszczak, M. Wojtczak
Changes in technological quality of frost damaged sugar beets during storage
5. M. Bruhns
Considerations about flow phenomena at the boundary layer of boiling massecuite and vapour
6. E. Soliman, Th. Frankenfeld, E. Jarrige, E. Flöter
Study of sugar beet thin juice purification by use of ion exchange resins
7. M. Gerards
RHEWUM high performance screens in the sugar industry
8. S. Awasthi, A. Goyal, R. Srivastava
Advanced distillery processes and zero liquid discharge technology for distillery
9. S. Awasthi
A new design approach for uniform juice distribution and maintenance friendly handling of falling film evaporator

Posters

10. C. Buttersack, M. Wecks, J. Hofmann, M. Hehn
Separation of carbohydrates by HPLC on zeolites
11. C. Buttersack, M. Wecks, J. Hofmann, H. Appl
Improvement of acid catalysts for the industrial hydrolysis of sucrose
12. K. Schlumbach, M. Scharfe, E. Flöter
Effect of quality and origin of technical sucrose solutions on colorant inclusion into sucrose crystals
13. K. Schlumbach, E. Flöter
A simple theoretical approach of modeling color inclusion into sucrose crystals
14. M. Monninger, R. El Korch, A. Brechbühl, A. Gerber
Microwave transmission technology for online and in-situ measurement of beet pulp dry substance for improved control of water addition processes and delivery compliance
15. E.M. Sarir, B.R. Pabon, K. Saovapun, G.A. Omar, L. Jaramillo
CSI two-stage HPA process technology for IER and GAC replacement in sugar refineries
16. N. Engelhardt, O. Arndt
Lime kilns: Retrofit technologies and their advantages in the sugar industry

ESST Programme Committee

J.M. de Bruijn (President)
T. Koch
T. Frankenfeld
S. Frenzel
J. Jensen
A. Wittenberg

Direction for Monday Evening



Maritim Hotel & International Congress
Centrum

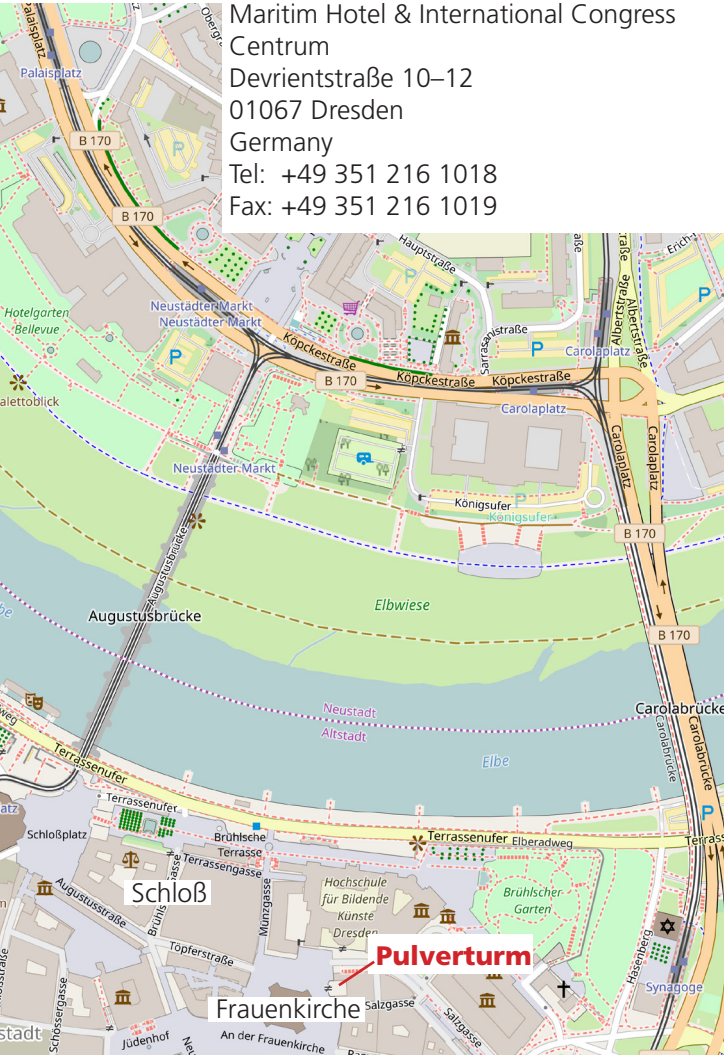
Devrientstraße 10–12

01067 Dresden

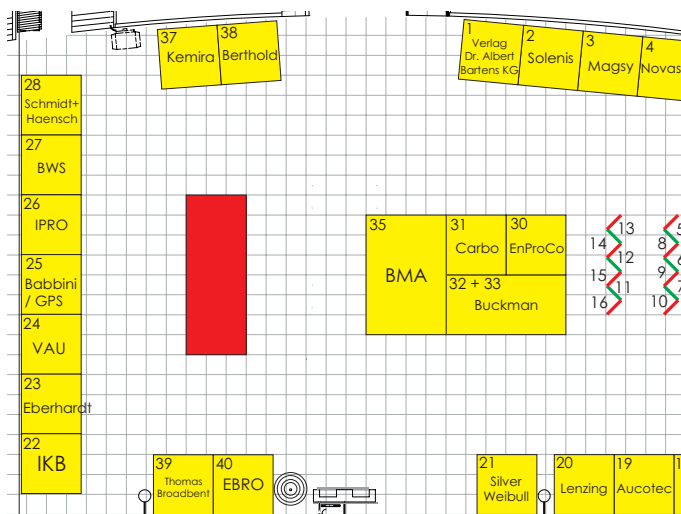
Germany

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Exhibition



Opening hours:

Monday 22 May

13 h to 17 h

Tuesday 23 May

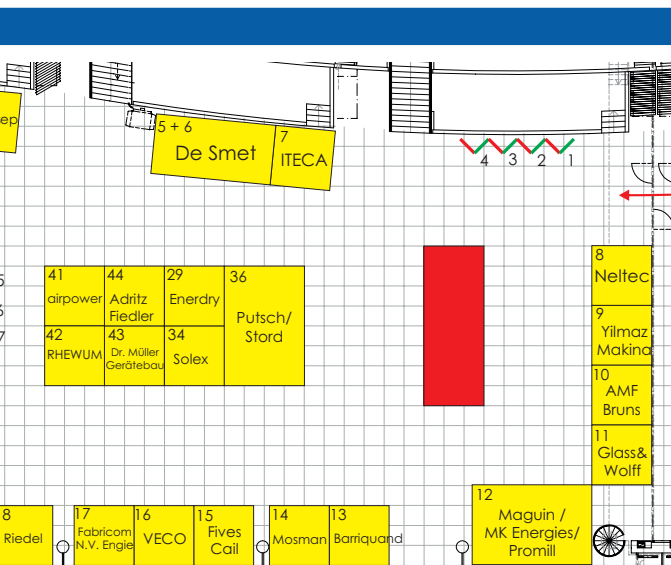
9 to 17 h

Wednesday 24 May

9 to 13 h

Exhibitors

airpower europe GmbH	41
AMF-BRUNS GmbH & Co. KG	10
ANDRITZ Fiedler GmbH	44
AUCOTEC AG	19
Babbini S.p.A. / G.P.S. Engineering	25
Barriquand Technologies Thermiques	13
Berthold Technologies GmbH & Co. KG	38
BMA Braunschweigische Maschinenbauanstalt AG	35
Thomas Broadbent & Sons Ltd	39
Buckman Laboratories N.V.	32–33
BWS Technologie GmbH	27
Carbo Solutions International LLC	31
De Smet Engineers & Contractors	5–6
Dr. Müller Gerätebau GmbH	43
Eberhardt GmbH	23
EBRO Armaturen Gebr. Bröer GmbH	40
EnerDry A/S	29
EnProCo Berlin GmbH	30



ENGIE Fabricom nv	17
Fives Cail	15
Glaß & Wolff Metalltechnik GmbH & Co. KG	11
IKB Industrieplanung GmbH	22
IPRO Industrieprojekt GmbH	26
ITECA SOCADEI SAS	7
Kemira	37
Lenzing Technik GmbH	20
MAGSY GmbH	3
Maguin SAS / MK Energies / Promill	12
Mosman Stainless Steel BV	14
Neltec Denmark A/S	8
NOVASEP Process SAS	4
Fontaine & Co. GmbH / Stord International AS / Putsch GmbH & Co. KG	36
RHEWUM GmbH	42
Riedel Filtertechnik GmbH	18
Schmidt + Haensch GmbH & Co.	28
Silver Weibull Sweden AB	21
Solenis LLC	2
Solex Thermal Science	34
VAU Thermotech GmbH & Co. KG	24
VECO B.V.	16
Verlag Dr. Albert Bartens KG	1
YILMAZ Makina	9

ESST Members

Sugar producers

AB Sugar
ACOR Sociedad Cooperativa General Agropecuaria
AGRANA Zucker GmbH
The Andhra Sugars Ltd
Cooperativa Produttori Bieticoli (Co.Pro.B.)
Cristal Union
HSI – Hellenic Sugar Industry S.A.
Krajowa Spółka Cukrowa S.A.
Lantic Sugar Inc.
Lesaffre Freres SAS
Nordzucker AG
Pfeifer & Langen GmbH & Co. KG
Schweizer Zucker AG
Suiker Unie
Südzucker AG
Tereos Sucres

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

airpower europe GmbH
ARi
Amalgamated Research Inc.
AUCOTEC AG
AVANCE Management Services Ltd.
Anton Paar OptoTec GmbH
Aqseptence Group SAS
BMA Braunschweigische Maschinenbauanstalt AG
BWS Technologie GmbH
Babbini S.p.A.
Barriquand Technologies Thermiques
BetaTec Hop Products
Blackburn Chemicals Ltd.
Broquet Pumps
Carbo Solutions International LLC

ESST Members

DEFOTEC Entschäumer Vertriebs GmbH
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EATON Technologies GmbH
Hydraulics Group Filtration Division
EBRO Armaturen Gebr. Bröer GmbH
ESCON Engineering Serv. & Cons.GmbH
Eberhardt GmbH
EnProCo Berlin GmbH
EnerDry A/S
Ensival Moret Belgium S.A.
FLSmidth Wiesbaden GmbH
Fives Cail
GPS Engineering s.r.l.
Gaudfrin
IKB Industrieplanung GmbH
IPRO Industrieprojekt GmbH
ITECA SOCADEI SAS Color & Vision Dpt
JVK Filtration Systems GmbH
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KWS SAAT SE
Keller & Bohacek GmbH & Co. KG
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Mosman Stainless Steel
Neltec Denmark A/S
Novasep Process SAS
proMtec Theisen GmbH
Putsch GmbH & Co. KG
Riedel Filtertechnik GmbH
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Stord International AS
Sugars International LLC
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