



VEREIN DEUTSCHER ZUCKERTECHNIKER

6th ESST/VDZ Conference

Program

Pavillon 15 (Earth Hall) of
Poznań International Fair
Poznań, 26 to 29 May 2019

Internet Access

1. Start Wi-Fi on your device.
 2. Select the wireless network MTP FREE WI-FI.
 3. Open any web browser (if the login window does not appear automatically enter address: www.wifi.mtp.pl).
 4. Select "Register" and fill out a short form. You will receive a login and password on your mobile phone number.
 5. Log in to use MTP FREE WI-FI network.
- Your login and password can be used simultaneously on two devices.

Access for voting

Go to www.esst-vdz-2019.com/poll

Login:

Username: Four-digit number (see back of name badge)

Password: esst

In case of questions, please contact Philipp Bruhns at Exhibition Stand 41

Parking

Parking on the premisses of the Poznań International Fair is possible during the day till 1 hour after the end of the conference program (i.e. reception or dinner)

Cars must enter from the gate no.1 at Sniadeckich street (see Map p. 14/15) using the code word "Sugar Conference"

This gate is open for 24 hours

Pictures

We will take pictures during the conference. If you do not wish, that a picture is taken of you, please contact the organizers at the Registration or Exhibition Stand 41.

Registration

Sunday, 26 May 16 to 19 h Pavillon 15 (Ground level)

Monday, 27 May 10 to 14 h Pavillon 15 (Ground level)

Sunday, 26 May 2019

- 15 h ESST Board
Pavillon 15, Level 2, Room 2.3
- 16 h 30 ESST Council
Pavillon 15, Level 2, Room 2.3
- 19 to 21 h ESST Reception
Pavillon 15, Ground level

Monday, 27 May 2019

- 8 h 30 VDZ-Ausschuss für Preisarbeiten
Pavillon 15, Level 2, Room 2.3
- 9 h Arbeitskreis Junge Mitglieder
Pavillon 15, Level 2, Room 2.1
- 9 h 30 ESST Scientific Committee
Pavillon 15, Level 2, Room 2.2
- 10 h VDZ-Vorstand (Vorstand und Beirat)
Pavillon 15, Level 2, Room 2.3

Monday, 27 May 2019

14 h Opening (Conference Hall, 2nd floor Earth Hall)
 B. Fetter, T. Kuhlmann

14 h 10 Explanation of Voting Program

Beet and Cane – Chairman: F. Emerstorfer

14 h 15 P. Rein
 Developments in the processing of sugarcane
 over the past 15 years

15 h Th. de Witte, S. Balieiro, A. Lehnberger
 International competitiveness of value chains for
 sugar beet and sugarcane: a combined approach
 to estimate production and processing costs in
 Brazil and Germany

15 h 25 Coffee break

General Sugar Technology – Chairman: Stefan Frenzel

16 h M. Wojtczak, R. Gruska, A. Antczak-Chrobot
 Influence of exopolysaccharides on juice viscosity

16 h 25 M. Wojtczak, R. Gruska, A. Antczak-Chrobot
 The impact of exopolysaccharides on purification
 process — filtration and sedimentation

16 h 50 K. Hulak, J. Iciek, R. Gruska
 Innovative energy and mass balance of a
 continuous evaporating crystallizer

Monday, 27 May 2019

- 17 h 15 B.M. Muir, Stefan D. Schöpf, C. Meade,
V. Chaignon
Filtration of stored thick juice for the syrup
campaign
- 17 h 40 P. Bąk, I. Błaszczak, A. Antczak-Chrobot,
M. Wojtczak
Effects of extraction temperature and sugar
beets' origin on conversion of nitrites and
nitrates during sucrose extraction
- 18 h 05 End

Evening Program

- 18 h 15 Get-to-together in the Exhibition Hall
- 20 h 15 End

Posters – Chairman: Piotr Wawro

- 9 h Introduction to Posters
11 × 5 Minutes Poster Presentation
- 10 h 00 3 × 10 min short presentation
- G. Strüncmann
Alternatives for the utilization of 3D scanning as a part of “Virtual Plant Asset Management”
- T. Koehorst
Sugar antiscalant optimization studies
- U. Schwanke, A. Lehnberger
Digitalization and sugar industry. Impact of user experiences from around the globe on developments in automation and digitalization
- 10 h 35 Coffee break

Beet – Chairman: Maciej Wojtczak

- 11 h 05 Ch. Hoffmann
Future requirements on sugar beet quality – going beyond the basics
- 11 h 30 T. Grootscholten, J.L.M. Struijs
Effects of improved beet quality in recent decades on juice purification
- 11 h 55 B. Langebeck, Ch. Pipper, J. Jeppesen
Tops and tails as the biogas source
- 12 h 20 Lunch

Juice purification – Chairman: John Jensen

- 14 h M. Adjari Rad, R. Dandar
Practical application of the SZ/RT-juice purification in industrial scale in the factory of Drochia (Moldova)
- 14 h 25 E. Flöter, K. Abraham
Comprehensive analyses on targeted dextranase applications in sugar manufacture
- 14 h 50 Coffee break

General Sugar Technology – Chairman: Timo Koch

- 15 h 20 M. Hünerlage, O. Arndt, M. Piplies
Lime kiln conversion from coke to natural gas operation – An option in direction of sustainable energy
- 15 h 45 C.K. Kohout, C. Ukowitz, F. Emerstorfer, W. Hein, W. Kneifel, K.J. Domig
Modern molecular biological methods for microflora characterization in sugar beet factories
- 16 h 10 Ch. Bergwall
Legionella in sugar factory water systems – a regulated future
- 16 h 35 F. Emerstorfer, A. Kogler, M. Omann, W. Hein
UV irradiation to control microorganisms in sugar production – developments at Agrana
- 17 h End

Tuesday, 28 May 2019

Guest Program

- 9 h Sightseeing tour (Bus leaves from Conference Center (Earth Hall))
 1000 years of Poznań
 Guided sightseeing tour of Poznań by bus and on foot
 Lunch
 Visit of Old Brewery (shopping and art center)
- 16 h Return to Conference Center (Earth Hall)

Evening Program (at the Conference Center)

- 18 h 30 Reception
- 19 – 23 h Dinner
 (2nd floor, Conference Center (Earth Hall))

Tuesday, 28 May 2019

- 17 h ISSCT-Landesverband Deutschland
 Pavillon 15, Level 2, Room 2.3

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

Tagesordnung

1. Eröffnung
2. Bericht des Vorsitzenden
3. Bericht des Geschäftsführers
4. Bericht der Kassenprüfer
5. Entlastung des Vorstandes
6. Wahl der Kassenprüfer
7. Bericht aus dem Ausschuss für Forschung und Prüfung von Publikationen
8. Bekanntgabe des Tagungsortes 2020

Digitalization – Chairman: Eckhard Flöter

- 10 h I. Graessler, A. Poehler
Potentials of digitalization in the sugar industry
- 10 h 40 A.-K. Mahlein
Innovations in agriculture – how can sensors and robots support growing sugar beets?
- 11 h 20 Coffee break

General Sugar Technology – Chairman: Barbara Muir

- 11 h 45 Z. Bubnik, P. Kadlec, E. Sarka, V. Pour,
A. Hinkova, S. Henke
Evolution of the research on physico-chemical properties of sugars and sugar crystallization at the University of Chemistry and Technology in Prague
- 12 h 10 F. Geisendörfer, E. Flöter
On the challenge of increased inhomogeneities in industrial evaporating crystallizers – the role of steam bubbles and their nucleation
- 12 h 35 A.G. Degenhardt, Th. Häbler, T.J. Koch
From bulk good to speciality sugar:
The biotechnological development of sucrose to allulose
- 13 h Voting for Best Paper Award
Closing remarks
- 13 h 15 End of conference

ESST Program Committee

P. Wawro (President)

T. Koch

T. Frankenfeld

S. Frenzel

J. Jensen

B. Muir

D. Simkiss

Posters

B. Langhans

Digitalization in sugar production – from vision to reality.
Chances of integrated thinking

St. Meldau, E. Hilscher, H. Narten

KWS BEETROMETER^{F400}: a new, innovative device for sugar-beet quality analysis

D. Grossmann

Processing aids in the digitalized sugar industry

M. Ulisse Mascia

ECHOWISE™ – On-line entrained air measurement and defoamer control

T. Diring, B.Ch. Nielsen

New instrument for measurement of sugar colour
in solution by the Neltec indirect method

T. Wettlaufer, K. Schlumbach, E. Flöter

Systematic study on formation of melanoidins and their
inclusion into sucrose crystals

Posters

B. Gaillac

Crystal Growth Analysis thanks to 4K Video Monitoring:
Feedback session

M. Honkanen, H. Eloranta

Online measurement of the crystal size distribution with a
novel portable non-intrusive instrument

J.P. Jensen, T. Rank Nielsen, M. Carter, R. Kügler, T. Aabo
Andersen, K. Kumar Budde, L. la Cour Freiesleben

New fast measuring method for process optimization of
sucrose crystallization

Ph. Schofield

The benefits of using wedge wire screens in a Continuous
Centrifuge

R.R. Reiner, T. Causon, S. Hann, F. Emerstorfer, Th. Karner,
K. Domig, W. Kneifel

Validation of ion chromatography for analysis of nitrate and
nitrite in molasses with focus on trueness, precision and
robustness in terms of matrix effects

Direction for Monday evening

After the reception on Monday evening you are free to make your own program.

We have reserved 30 places each in the following restaurants in the center of Poznań till 20 h 45 under the code „Sugar Conference“:

- 1 Why Tai
ul. Kramarska 7, 61-765 Poznań;
T: +48 61 818 29 11; <http://whythai.pl/>
- 2 Domu Restaurant
Wrocławska 18, 61-838 Poznań;
T: +48 61 424 10 42; <http://restauracjadomu.pl/>



- 3 Punkt Sporny Restaurant
Stary Rynek 25/29, 61-772 Poznań;
T: +48 61 850 14 34; <http://punktsporny.pl/>
- 4 Bazar 1838 Restaurant
Paderewskiego 8, 61-771 Poznań;
T: +48 61 222 68 64; <http://www.bazar1838.pl/>
- 5 Tequilarnia
Stary Rynek 56, 61-783 Poznań;
T: +48 506 564 062; <http://tequilarnia.pl/>

The directions to the restaurants can be found under www.esst-vdz-2019.com/restaurants



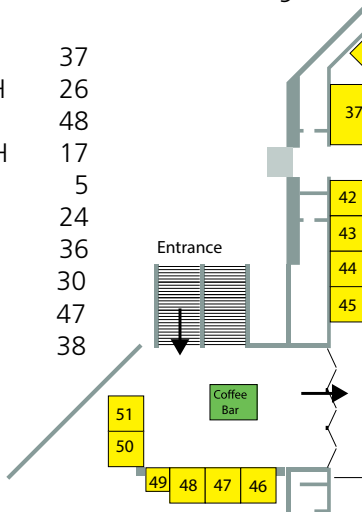
Exhibition (2nd floor, Earth hall)

Opening hours:

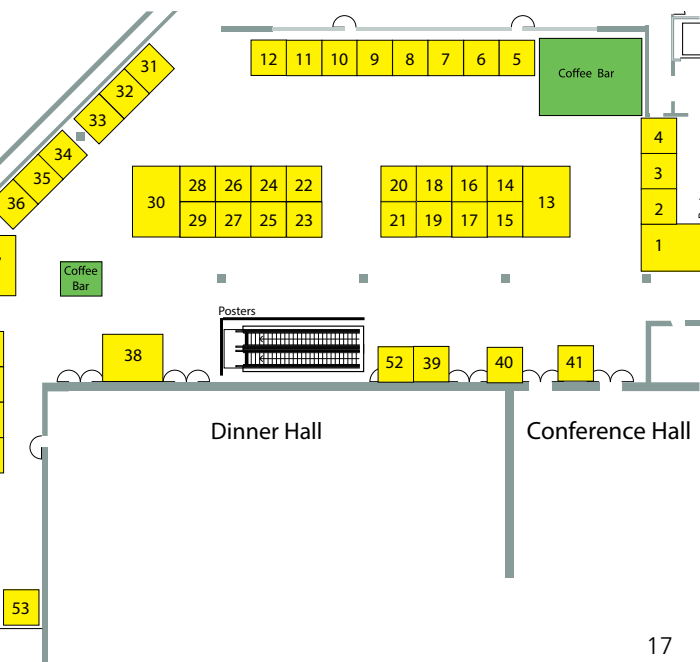
Monday 27 May	13 h to 17 h
Tuesday 28 May	9 to 17 h
Wednesday 29 May	9 to 13 h

Exhibitors

AMF-Bruns GmbH & Co. KG	29
Andritz Fiedler	52
Anton Paar Optotec GmbH	45
APRO Ingenieurbüro GmbH & APRO Polska	34
Airpower	49
ArmaSys Armaturen und Systemtechnik GmbH	27
Babbini S.p.A.	28
Barriquand Technologies Thermiques	15
BMA Braunschweigische Maschinenbauanstalt AG	1
Berthold Technologies GmbH & Co. KG	42
Buckman Laboratories NV	6 + 7
BWS Technologie GmbH	19
Carus Europe	51
De Smet Engineers & Contractors	14 + 16
DFT GmbH Deichmann Filter Technik	35
Eberhardt Schwab GmbH	23
ELLI-GPS Engineering s.r.l.	4
EnerDry A/S	25
EnProCo – Berlin GmbH	20
ESCON Engineering Serv. & Cons.GmbH	10
FIC SPA	9
Glaß & Wolff Metalltechnik GmbH & Co. KG	37
IKB Industrieplanung GmbH	26
Inmec Instruments	48
IPRO Industrieprojekt GmbH	17
ITECA-SOCADEI-SAS	5
Lenzing Technik GmbH	24
MAGSY	36
Maguin S.A.S., Promill, iPro	30
NCR Biochemical	47
Neltec Denmark A/S	38



ParticleTech Aps	43
Pixact	46
Polimex-Cekop	50
proMtec Theisen GmbH	8
Putsch Group	13
RHEWUM GmbH	2
Riedel Filtertechnik GmbH	22
Scangrading	53
Schmidt + Haensch GmbH & Co.	21
SFUP Sp. z o. o.	39
Siemens AG	3
Silver Weibull Sweden AB	33
Solenis UK Ltd.	12
Sollau s.r.o.	40
SternEnzym GmbH & Co. KG	31
Thomas Broadbent & Sons Ltd.	11
VECO B.V.	18
Verlag Dr. Albert Bartens KG	41
WUTRA Fördertechnik GmbH	44
Yilmaz	32



Sugar producers

AB Sugar
ACOR Sociedad Cooperativa General Agropecuaria
AGRANA Zucker GmbH
The Andhra Sugars Ltd
Cooperativa Produttori Bieticoli (Co.Pro.B.)
Cristal Union
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 (ASSBT)
Associazione Nazionale Tecnici dello Zuccherero e
dell'Alcole (ANTZA)
Fachverein der Zuckerfabriken Österreichs (FZÖ)
SNFS – Syndicat National des Fabricants de Sucre de
France
Stowarzyszenie Techników Cukrowników (STC)
Verein Deutscher Zuckertechniker (VDZ)

Suppliers

airpower europe GmbH
Anton Paar GmbH
Aqseptence Group SAS
AUCOTEC AG
Babbini S.p.A.
Barriquand Technologies Thermiques
BetaTec Hop Products Ltd.
Blackburn Chemicals Ltd.
Thomas Broadbent & Sons Ltd.
BMA Braunschweigische Maschinenbauanstalt AG

ESST Members

Broquet Pumps SA
BWS Technologie GmbH
Carbo Solutions International, LLC
De Smet S.A. Engineers & Contractors
DEFOTEC Entschäumer Vertriebs GmbH
EATON Technologies GmbH
Eberhardt Schwab GmbH
ELLIGPS S.r.l.
EnerDry ApS
ESCON Engineering Services & Consulting GmbH
Fives Cail
FLSmidth Wiesbaden GmbH
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IPRO Industrieprojekt GmbH
JVK Filtration Systems GmbH
Keller & Bohacek GmbH & Co. KG
KS Klemens Senkowski
KWS SAAT AG
Maguin S.A.S.
Mosman
NCR Biochemical
Neltec Denmark A/S
Novasep Process SAS
proMtec Theisen GmbH
Riedel Filtertechnik GmbH
Scangrading
Schill + Seilacher „Struktol“ GmbH
Schmidt + Haensch GmbH & Co.
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Solenis
Solex Thermal Science, Inc
Stord International AS
Sugars International LLC
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