

Program VI Konferencji ESST:

- 1. Developments in the Processing of Sugarcane over the Past 15 years** - Peter Rein.
- 2. International competitiveness of value chains for sugar beet and sugarcane: a combined approach to estimate production and processing costs in Brazil and Germany** - Thomas de Witte, Samuel Balieiro, Andreas Lehnberger.
- 3. Influence of exopolysaccharides on juice viscosity** - Maciej Wojtczak, Radosław Gruska, Aneta Antczak-Chrobot.
- 4. The impact of Exopolysaccharides on purification process – filtration and sedimentation** - Maciej Wojtczak, Radosław Gruska, Aneta Antczak-Chrobot.
- 5. Innovative energy and mass balance of a continuous vacuum pan** - K. Hulak, J. Iciek, R. Gruska.
- 6. Filtration of stored thick juice for the syrup campaign** - BM. Muir, SD. Schöpf, C. Meade and V. Chaignon.
- 7. Effects of extraction temperature and sugar beets' origin on conversion of nitrites and nitrates during sucrose extraction** - Paulina Bąk, Ilona Błaszczuk, Aneta Antczak-Chrobot, Maciej Wojtczak.
- 8. Future requirements on sugar beet quality – going beyond the basics** - Christa Hoffmann
- 9. Effects of improved beet quality in recent decades on juice purification** - Tim Grootcholten and Jan L.M. Struijs.
- 10. Biogas from beet tops and tails** - Birger Langebeck, Charlotte Pipper, Jesper Jeppesen.
- 11. Practical application of the SZ/RT-juice purification in industrial scale in the factory of Drochia (Moldova)** - Mohsen Adjari-Rad, Richard Dandar.
- 12. Comprehensive analyses on targeted dextranase applications in sugar manufacture** - E. Flöter, K. Abraham.
- 13. Lime kiln conversion from coke to natural gas operation – An option in direction of sustainable Energy** - Michael Huenerlage, Oliver Arndt and Markus Piplies.
- 14. Modern molecular biological methods for microflora characterization in sugar beet factories** - K. Kohout, C. Ukowitz, F. Emerstorfer, W. Hein, W. Kneifel, K.J. Domig.
- 15. Legionella in sugar factory water systems – a regulated future** - Christer Bergwall.
- 16. UV irradiation to control microorganisms in sugar production – developments at AGRANA** - F. Emerstorfer, A. Kogler, M. Omann, W. Hein

17. Potentials of digitalization in the sugar industry - Iris Graessler, Alexander Poehler.

18. Innovations in agriculture – how can sensors and robots support growing sugar beets? - Anne-Katrin Mahlein

19. Evolution of the research on physico-chemical properties of sugars and sugar crystallization at the University of Chemistry and Technology in Prague - Z. Bubnik, P. Kadlec, E. Sarka, V. Pour, A. Hinkova and S. Henke

20. On the challenge of increased inhomogeneities in industrial vacuum pans – the role of steam bubbles and their nucleation - F. Geisendörfer, E. Flöter

21. From bulk good to speciality sugar: The biotechnological development of sucrose to allulose - Andreas Georg Degenhardt, Thomas Häßler, Timo Johannes Koch.