



SAVONIA Finnoflag
UNIVERSITY OF APPLIED SCIENCES



UNIVERSITY
OF EASTERN
FINLAND

abowe
Implementing Advanced Concepts for Biological Utilization of Waste

ABOWE BIOREFINERY FINAL SEMINAR

**Biorefining Around the Baltic Sea and Global Ecodevelopment
at Viikki Campus Area, University of Helsinki
30.10.2014**

Venue: Lecture Hall 1, B-Building (Latokartanonkaari 7-9)

8:30 Reception

9:00-9:10 Opening Harry Ekestam, Counselor of Regional Development, Ministry of Employment and the Economy, Helsinki, Finland.

9:10-9:50 Keynote Lecture 1. Biomass Utilization - Next Industrial Revolution. Erik Dahlquist, Professor of Energy Technology, Research Director of the School of Business, Society and Engineering, Mälardalen University, Västerås, Sweden.

9:50-10:20 Keynote Lecture 2. Concepts and Applications of Biotechnologies: Importance of Plant and Microbial Interaction in Phytoremediation. Zhi-Qing Lin, Professor in the Department of Biological Sciences and the Director of the Environmental Sciences Program, Southern Illinois University - Edwardsville, U.S.A.

10:20-10:40 Coffee Break

10:40-11:00 Biomass Potential in North Europe and Globally. Tuomas Huopana, Researcher of Environmental Informatics, University of Eastern Finland, Kuopio, Finland.

11:00-11:40 Biocatalysis in Finnoflag Biorefining – Outlines of ABOWE Results and Future Perspectives. Elias Hakalehto, Adjunct Professor in Biotechnical Microbe Analytics, University of Eastern Finland, Kuopio, Finland and CEO, Finnoflag Oy, Siilinjärvi, Finland.



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11:40-12:40 Lunch (subject to a charge)

12:40-12:55 ABOWE - Arrangements of an International Baltic Sea Region Testing Program. Ari Jääskeläinen, Project Coordinator, Savonia University of Applied Sciences, Kuopio, Finland.

12:55-13:10 Nucleic Magnetic Resonance in the Biorefinery Result Evaluation. Reino Laatikainen, Professor of Chemistry, School of Pharmacy, University of Eastern Finland, Kuopio, Finland.

13:10-13:20 Finnish Testing at Savon Sellu. Anssi Suhonen, Senior Lecturer of Mechanical Engineering, Savonia University of Applied Sciences, Kuopio, Finland.

13:20-13:30 Polish Testing with Food Waste. Emilia den Boer, Assistant Professor of Environment Protection Engineering, Wrocław University of Technology, Wrocław, Poland.

13:30-13:40 Swedish Testing with Animal Waste. Erik Dahlquist, Professor of Energy Technology, Research Director of the School of Business, Society & Engineering, Mälardalen University, Västerås, Sweden.

13:40-13:55 Joint Discussion About the Economical Feasibility of the Biorefineries

13:55-14:10 Coffee

14:10-14:30 Consolidated bioprocessing - Integration of ABOWE Biorefinery Process with Simultaneous Downstreaming. Tim Freidank, Engineer for Biotechnology and Bioprocess Engineering, Ostfalia University of Applied Sciences, Wolfenbüttel, Germany.





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14:30-14:50 Co-Application of Biosolids and Drinking Water Treatment Residuals in Agricultural Land in the US Midwest. Zhi-Qing Lin, Professor in the Department of Biological Sciences and the Director of the Environmental Sciences Program, Southern Illinois University - Edwardsville, U.S.A.

14:50-15:05 Biorefineries in the EU policies. Reljo Saarepera, Chairman of the Board, ERKAS, Estonia.

15:05-15:20 Low Carbon Bioeconomics in Finland. Peter Lund, Professor of Engineering Physics and Advanced Energy Systems, Aalto University, Helsinki, Finland.

15:20-16:00 Our sustainable future - Panel Discussion

16:00-16:10 Concluding Remarks. Osmo Hänninen, Professor Emeritus of Physiology, University of Eastern Finland, Kuopio, Finland.

Bus transfer

Pilot A exhibition at Gardenia Tropical Garden (Koetilantie 1).

Exhibition starts to groups of c. 6 persons at one time.

Cafeteria is open by the site.

Also the Tropical Garden is open by the site (subject to a charge).

About the event

The event is open and free of charge for all interested stakeholders.

The event will be held in English.

Registration as soon as possible to mervi.lappi@savonia.fi

There is more information about ABOWE project on www.abowe.eu

WELCOME!



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