



2nd Workshop on

“Engineering lignin properties for applications”

This is the second workshop and dissemination activity in the project “High-Value Products from Lignin” *LiFT*. Invited speakers will share their expertise in lignin’s fundamental and applied aspects. Researchers, educators, students, industry personnel and anyone interested in “*Engineering lignin properties for applications*” are most welcome to join a lively discussion.



Dates and location

- **October 16th, 2019** – *workshop*
Lecture Hall K1, Teknikringen 56, 3rd floor
- **October 17th, 2019** – *workshop and visit*
Lecture Hall D2, Lindstedtsvägen 5, 3rd floor
(wheelchair access on Lindstedtsvägen 9)

KTH Royal Institute of Technology
Stockholm, Sweden

Online Registration

LigninWorkshopKTH.eventbrite.com

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AARHUS
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Aalto University



Nordic Green Growth Research and Innovation Programme

Nordic Innovation, NordForsk and Nordic Energy Research have joined forces on this research and innovation programme with the aim of accelerating the transition towards a sustainable Nordic society.

Project “High-Value Products from Lignin”

The objective is to develop technologies to use lignin as an alternative renewable resource in selected, high value applications, optimally aiming at reduced production costs while simultaneously improving material properties.

Consortium

VTT – Tarja Tamminen
KTH – Gunnar Henriksson

Aalto University – Orlando Rojas
Aarhus University – Anders Feilberg

Workshop Program

October 16th, 9:00 to 12:00 – Session 1: Lignin properties, preparation and characterization

Opening	09:00	Gunnar Henriksson, KTH
Preparation of technical lignins	09:15	Mikael Lindström, KTH
Analytical methods for lignin	09:40	Göran Gellerstedt, KTH
Lignin characterization	10:05	Mikhail Balakshin, Aalto University
Coffee Break	10:30	
Antioxidant performance of lignins	10:55	Petri Widsten, VTT
Lignin-carbohydrate complexes	11:20	Gunnar Henriksson, KTH
Ecohelix technology	11:45	Petri Oinonen, Ecohelix

12:10 to 14:00 – Lunch break

14:00 to 16:30 – Session 2: Energy and coatings from lignin

Lignin valorisation	14:00	Joseph Samec, Stockholm University
Lignin based adsorbent for biogas cleaning	14:25	Miroslav Nikolic, Aarhus University
Hydrogen production from pulping liquors	14:50	Daniel Martín-Yerga, KTH
Coffee Break	15:15	
Lignin co-polymer for coating metal surfaces	15:40	Marleny Caceres Najarro, Aarhus U.
Modified lignin for packaging applications	16:05	Ioannis Dogaris, KTH

October 17th, 8:30 to 11:10 – Session 3: Applications of lignin in materials

Nitrogen-doped lignin-derived carbon supra-particles as robust solid sorbents for CO₂ capture	08:30	Bin Zhao, Aalto University
Lignin at interfaces	08:55	Orlando Rojas, Aalto University
Structure-property relationships in lignin-based thermosets	09:20	Martin Lawoko, KTH/WWSC
Coffee Break	09:45	
Model lignin films by spin-coating	10:10	Marc Borrega, VTT
Lignin research at Stora Enso	10:35	Dimitri Areskogh, Stora Enso
Summary/final remarks	11:00	Taina Ohra-aho, VTT

13:00 to 14:00 – Visit to KTH Greenhouse Labs

* 20 min talks +
5 min for questions

