

Symposium 2024

Description

Digging out the potential of lignin

Lectures given at the 2024 Marcus Wallenberg Prize Symposium held in Stockholm on 12 November 2024.

[Watch the complete broadcast here](#)

[Watch the summary film here](#)

PART 1 SCIENTIFIC FOCUS, moderated by Paul Dupree, Professor University of Cambridge

Welcome and opening Remarks

Mr. Marcus Wallenberg, Chairman of the Marcus Wallenberg Foundation

[You can do anything from lignin](#)

Claire Halpin, Professor University of Dundee

[Improving Wood Quality: From Systems Biology in Arabidopsis to Applications in Trees](#)

Wout Boerjan, Co-recipient of the 2024 Marcus Wallenberg Prize, Professor of Biochemistry and Biological Systems Engineering, the Wisconsin Energy Institute, University of Wisconsin-Madison, USA

[Organic Syntheses and Advanced Analytics for Understanding Lignin Biosynthesis, Structure, and Processing](#)

Professor John Ralph, Co-recipient of the 2024 Marcus Wallenberg Prize, Professor of Biochemistry and Biological Systems Engineering, the Wisconsin Energy Institute, University of Wisconsin-Madison, USA

[Announcement of Winner of the Young Researchers 3MT presentations](#)

Presenter: Tahani KaldÅ©us, The Marcus Wallenberg Foundation

PART 2 LIGNIN INNOVATIONS IN FOCUS, moderated by Monica Ek, Professor KTH

From Kraft to Craft: Transforming Lignin into High-Value materials

Monika Åsterberg, Aalto University

State of the art in Industrial lignin separation

Hanna Karlsson, Valmet

Scaling high-performance material production from wood using aldehyde-assisted fractionation

Remy Buser, Bloom Biorenewables

PART 3 START-UPS IN FOCUS, moderated by Monica Ek, Professor KTH

Lignin: Next generation of renewables in plastics Used in PE, PP and ABS applications

Christopher Carrick, Lignin Industries

High performing batteries with lignin based graphene

Malin Alpsten, Bright Day Graphene

Bringing nature's binder back to wood

Bitta Nilsson, Stora Enso

Summary

Monika Ek, Professor KTH