

WWSC Academy, Summer School 2, 2019

Topic; Wood Materials Biorefinery, 2.0 ECTS credits

From Wood Chips to Material Components

Site visit to cluster in Örnsköldsvik/Domsjö

August 27-31, 2019



Contact Information:

Prof. Paul Gatenholm & Prof. Gunnar Westman

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Course Starts: More Research, Hörneborgsvägen 10, 892 50 Domsjö

Accommodation: Dekarsön 300,891 78 BONÄSSUND, www.solbacken.org

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August 27, Domsjö

12.00-13.00 Lunch, Introduction to WWSC and Treeseach Graduate Schools (Prof. Paul Gatenholm & Prof. Gunnar Westman)

Introduction to Ö-viks cluster Stefan Svensson, MoRe, President

13.00-15.00 Course introduction and some basics about biorefinery and the drivers (Prof. Hans Theliander)

15.00-16.00 Wood morphology (Prof. Hans Theliander)

16.00-17.30 Wood chemistry (Assoc. Prof. Martin Lawoko)

17.30-18.00 Buss to Accommodation at Solbacken

18.00-18.30 Check-in

18.30-19.00 Get together, Future Materials Biorefinery projects selection

19.00-20.00 Dinner



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August 28, Solbacken

08.30-10.00 Wood Chemistry (Assoc. Prof. Martin Lawoko)

10.00-10.30 Coffee

10.30-12.30 Characterization of wood components (Dr Francisco Vilaplana)

12.30-13.30 Lunch

13.30-15.30 Wood Separation: Chemical methods (Prof. Hans Theliander)

15.30-16.00 Coffee

16.00-17.00 Materials biorefinery (Prof. Hans Theliander)

17.00-19.00 Activity/team building/project work

19.00-20.00 Dinner

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August 29

07.00-07.30 Breakfast

08.00-09.00 Downstream separation (Prof. Hans Theliander, Assist. Prof. Tuve Mattsson)

09.00-09.45 downstream separation (Prof. Hans Theliander, Assist. Prof. Tuve Mattsson)

09.45-10.15 Coffee

10.15-11.45 Biotech basics (Prof. Lisbeth Olsson) & Carbohydrate active enzymes (Dr. Lauren McKee)

11.45-12.30 Lunch

12.30-13.00 Buss to Ö-viks Cluster

13.00-16.00 Mill visit

16.00-16.30 Buss to Accommodation

17.00-19.00 Activity/Project work

19.00-20.00 Dinner

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August 30

08.00-9.30 From enzyme discovery to enzyme production (Dr Lauren McKee & Prof. Lisbeth Olsson)

09.30-10.00 Coffee

10:00-11:00 ...continued from enzyme discovery.

11.00-12.00 Enzymes in industry (Prof. Lisbeth Olsson)

12.00-13.00 Lunch

13.00-15.00 Applications of enzymes in a material biorefinery (Prof. Lisbeth Olsson & Dr. Lauren McKee)

15.00-17.00 The materials biorefinery projects/Examination

17.00-19.00 "5-kamp"

19.00-20.00 Dinner

August 31

07.00-08.00 Breakfast and check out

08.00-09.00 Examination-feed back

09.00 Buss to Ö-vik train station