

WWSC Academy, Summer School 1, 2019

Topic; Wood Biotechnology: Biosynthesis, Wood Cell Wall Assembly and Wood Anatomy

Site visit to Umeå Plant Science Center and Plant Nursery, 1.0 ECTS credits

August 25-27, 2019

Umeå and Gideå



Contact Information:

Prof. Paul Gatenholm,

paul.gatenholm@chalmers.se

Mob phone: 0707535750



WWSC Academy, Summer School 1, 2019

Topic; Wood Biotechnology: Biosynthesis, Wood Cell Wall Assembly and Wood Anatomy

Site visit to Umeå Plant Science Center and Plant Nursery

August 25-27, 2019

Umeå and Gideå

August 25

-20.00 Arrival to Umeå U&ME Hotell

20.00 Introduction to WWSC and Treeseach Graduate Schools (Prof. Paul Gatenholm & Prof. Gunnar Westman)

August 26

7.30-8.00 Breakfast

8.00-9.00 Walking to UPSC, Stora Fokusrummet (KBF301)

9.00-9.30 Welcome & Introduction to UPSC, Prof. Ove Nilsson

9.30-10.00 Wood formation in different plant model systems, Dr Hannele Tuominen

10.00-10.30 Cellulose biosynthesis in plants, Dr Totte Niittylä

10.30-10.45 Coffee break in KBC cafeteria

10.45-11.15 Tension wood formation in hybrid aspen – an uplifting subject, Dr Judith Felten



WWSC Academy, Summer School 1, 2019

Topic; Wood Biotechnology: Biosynthesis, Wood Cell Wall Assembly and Wood Anatomy

Site visit to Umeå Plant Science Center

August 26, 2019 Umeå

August 26

11.15-12.15 Two parallel activities for two groups, each about 25min (each student does both activities): Dr Sacha Escamez, Dr Marta Derba-Maceluch

1. Experiments: microscopy of wood samples using preexisting slides and cell cultures, KB.G4.02,

2. Experimental systems to study the formation of wood cells, KBC4 lab + floor 6 lab

12.15-13.15 Lunch in KBC cafeteria

Stora Fokusrummet (KBF301)

13.15-13.55 Forest tree breeding in the phenomic and genomic era, Dr Rosario Garcia-Gil

13.55-14.45 Forest biotechnology lecture, Prof. Ove Nilsson

14.45-15.15 Forest tree genomics, Dr Nathaniel Street

15.15-15.45 Coffee break in KBC cafeteria



WWSC Academy, Summer School 1, 2019

Topic; Wood Biotechnology: Biosynthesis, Wood Cell Wall Assembly and Wood Anatomy

Site visit to Umeå Plant Science Center

August 26

August 26-27, 2019 Umeå and Gideå

15.45-17.15 Demonstrations and site visit (20min each in three small groups).

Meeting point at KBC

1. Visit of Biopolymer Analytical Platform (BAP), Dr Junko Takahashi-Schmidt
2. Raman/FTIR lab, Dr András Grozsás
3. Phenotyping platform/Growing Facilities, Dr Anne Honsel, Dr Carolin Rebernick
Lilla Hörsalen

17.15-17.45 Introduction to WWSC program and WWSC Academy, Prof. Paul Gatenholm, Chalmers

17.45-19.00 Get together and Poster session, WWSC+UPSC students/postdocs,
Glasburen

19.00-20.00 Dinner, UPSC lunch room

August 27

7.00-7.30 Breakfast

8.00-9.30 Buss to Holmen's Plant Nursery in Gideå

9.30- 11.00 Visit to Holmen's Plant Nursery in Gideå

11.00-12.00 Buss to Ö-vik Cluster