





## WWSC Academy and Treesearch, Winter School 2021 Characterization of Hierarchical Order in Solid and Liquid Wood Derived Systems. Scientific leaders: Prof. Daniel Söderberg and Prof. Aleksandar Matic 2.0 ECTS credits Virtual visits to ForMAX and MAX IV and Tetra Pak





## April 12-16, 2021, Online Contact Information: Prof. Paul Gatenholm & Prof. Gunnar Westman <u>paul.gatenholm@chalmers.se</u> Mob phone: 0707535750







- Mandatory course for WWSC PhD students
- 2 credits.
- Material for reading will be distributed (WWSC) by April 12
- Short abstract on research project to be submitted by PhDstudents together with 1 pitch-slide by April 16
- Zoom-based course
- Virtual site-visits to ForMAX, MAX IV







## **Preliminary Program**

| 12 April, | 10-11:30 | Introduction to the course – why scattering techniques and tasks! Aleksandar Matic and Daniel Söderberg |
|-----------|----------|---|
|           | 13-15    | Scattering techniques for dummies, Stephan Roth   |
|           | 15-17    | Neutron-based characterization, contd., including brief description of ESS, Yasmine Sassa               |
| 13 April  | 9-10     | Photon-based characterization, Stephan Roth   |
|           | 10-11:30 | SAXS/WAXS and NMR-techniques as tools for structure characterization, Tomas Larsson                     |
|           | 13-15    | Group exercise: "roundtable" introduction, my topic and research question(s), prepared!                 |
|           | 15-17    | Hierarchical order in solid wood and wood derived systems, Tomas Rosén                                  |
| 14 April  | 9-11:30  | Group exercise: what if I could   |
|           |          | Introduction "The world of research infrastructures, possibilities and access"                          |
|           | 13-14    | Virtual visit MAX IV  |
|           | 15-17    | Group exercise: choice of facility, writing of research proposal according to the appropriate template  |
| 15 April  | 9-11     | Applications of scattering techniques, Marianne Liebi, Aleksandar Matic and Daniel Söderberg            |
|           | 13-17    | Group exercise: preparation of presentations  |
| 16 April  | 9-12     | Examination – presentations of proposals and hand-in of proposal  |
|           |          |   |