WWSC Academy, Winter School 2020
Topics; Organic Electronics, Energy Storage, Electronic Plants, Lignocellulosic surfaces, Wetting, Adhesion, Printability
2.0 ECTS credits
Site visit to Holmen
March 30-April 3, 2020, Husby Säteri and Norrköping

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WWSC Academy, Winter School, 2020

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Day 1: Organic Electronics- Fundamental Principles
Day 2: Energy storage and transformation
Day 3: Lignocellulosic surfaces; Characterization and modifications
Day 4: Basics of wetting, adhesion and printability
Day 5: Bioelectronics-Electronic Plants
30 March, Day 1: Organic Electronics fundamentals
9.45 Norrköping train station*. Departure by bus to Husby Säteri, Söderköping [www.husbysateri.se](http://www.husbysateri.se)
10.30-10.45 Coffee
10.45-12.00 Introduction to organic semiconductors, Mats Fahlman
12-13 Lunch
13.00-14.30 Introduction to organic electronics (including printed electronics, OTFTs, OLEDs, OECTs) Isak Engquist
14.30-14.45 Coffee
14.45-16.00 Introduction to organic electronics (including printed electronics, OTFTs, OLEDs, OECTs) Isak Engquist
17.00 Get together, project selection
19-20 Dinner
20 Social activities

*Connecting trains.
Göteborg Departure 6.24 Arrival Norrköping 9.21
Stockholm Departure 8.21 Arrival Norrköping 9.33
31 March, Day 2: Energy applications
7-8 Breakfast
8.30-10.00 Organic Photovoltaics, Mats Fahlman
10.00-10.30 Coffee
10.30-12.00 Thermoelectrics, Dan Zhao
12-13 Lunch
13.00-14.30 Introduction to electrochemistry, Viktor Gueskine
14.30-14.45 Coffee
14.45-16.15 Energy storage: Supercapacitors, Batteries, Fuel Cells, Viktor Gueskine
16.15-18.00 Outdoors activities
18.00-19.00 Dinner
19.00 Project work
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1 April
7-8 Breakfast
8.30-10.00 Surface Forces and Lignocellulosic Surfaces - fundamental aspects, Torbjörn Pettersson
10.00-10.30 Coffee
10.30-12.00 Preparation for site visit at Holmen
12-13 Lunch
13 Buss till Holmen
Site visit at Holmen
18-19 Dinner
19 Project work
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2 April
7-8 Breakfast
8.30-10.00 Lignocellulosic surfaces: Surface characterization, Tiina Nypelö and Paul Gatenholm
10.00-10.30 Coffee
10.30-12.00 Characterization of surfaces with AFM, Torbjörn Pettersson
12-13 Lunch
13-15 Lignocellulosic surfaces: Wetting, adhesion and printability, Peter Rättö
15-15.15 Coffee
15.15-17.00 Outdoors activities
17-18 Project work
18-19 Dinner
19 Project work
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3 April
7.00-8.00 Breakfast
8.00 Check out
8.15 Buss to Norrköping campus
9-10.30 Bioelectronics and e-Plants, Eleni Stavrinidou
10.30-10.45 Coffee
10.45- 12 Bioelectronics and e-Plants, Eleni Stavrinidou
12-13 Lunch on Campus
13-14.30 Project presentations (PhD Students)
14.30-16 Site visit in groups to Printing Electronics Arena
16.00 Course is ending, walk to Norrköping train station**
**Train departure Göteborg 16.36
   Train departure Stockholm 16.22