

Renewable Systems Engineering training course

<http://biotechnologycourses.nl/courses/renewable-systems-engineering-training-course/>

Number of participants: 16 researchers from RENESENG plus 10-15 external, max. number 25.

ECTS points: 1 in case of poster presentation, otherwise 0.5

Draft program

Day 1

Location	TU Delft, Biotechnology building, Julianalaan 67, room A
09.00-09.30	Registration
09.30-09.45	Day 1 theme: Fermentation-based biorefineries Chair: Adrie Straathof (TUD) Introduction in the course
09.45-10.15	Introduction on biomass use and industrial biotechnology – Gerrit Eggink (WU) – to be confirmed
10.15-11.00	Pretreatment of lignocellulosic biomass – Solange Musatto (TUD) – to be confirmed
	Break
11.30-12.30	Design of lignocellulosic hydrolysate fermentation – Henk Noorman (DSM/TUD) or Sef Heijnen (TUD) – to be confirmed
	Lunch (in same building); optional visit of TUD facilities in the building
14.00-14.45	Using mixed cultures for biomass valorization – Robbert Kleerebezem (TUD) – to be confirmed
	Break
15.00-15.45	Recovery of biorefinery products and overall process structure – Adrie Straathof (TUD)
	Break
16.00-16.45	Exercise: Synthesis of a biorefinery – Adrie Straathof (TUD)
	Break
17.00-17.45	Sustainability assessment: Speaker of TUD or of Reneseng (Imperial college / Quantis) – to be confirmed
	Break
18.00-20.00	Poster session incl. dinner buffet and drinks

Day 2

Time	Location : Axis, building number 118, Bornse Weilanden 9, 6708 WG Wageningen
8.15-8.30	Bus leaves from Delft, Hampshire hotel parking?
10.00-10.15	Introduction to Day 2 Theme: Biomass refinery Chair: Ana López Contreras
10.15-11.00	Invited speaker: Willem Brandenburg or Julie Maguire (DOMMRS, Ireland) – to be confirmed Cultivation of seaweeds for biorefinery
	Break
11.30-12.15	Enzymatic hydrolysis of biomass Speaker: Rob Bakker – to be confirmed
12.15-13.00	Lignin valorization in lignocellulosic biorefineries Speaker: Richard Gosselink – to be confirmed
	Lunch
14.00-14.45	Introduction to modeling and simulation tools for biorefineries – speaker Reneseng – title and speaker to be discussed
14.45-15.00	Closure of Day 2
15.00-15.45	Visit to FBR facilities
15.45-16.45	Visit to AlgaeParc
16.45	Bus departure to Delft

Day 3

Time	Location: Bioprocess Pilot Facility (BPF), Alexander Fleminglaan 1, Delft. Registration (requiring ID) at the DSM entrance building before 8.45.
09.00-09.15	Introduction to Day 3 Day 3 Theme: Scale-up scale-down of bioprocesses Chair: Els Schulten
09.15-10.00	Scale-up of bio-processes - principles Maria Cuellar (TUD) to be confirmed (TUD)
	Break
10.15-11.15	Invited lecture from Industry: speaker to be confirmed (DSM)
	Break
11.30-12.30	Invited lecture from Industry: speaker to be confirmed (Corbion)
	Lunch
14.00-16.00	Tour through Bioprocess Pilot Facility – Upstream section, fermentation section, downstream section
	Break
16.30-17.30	Workshop: My project and the BPF
17.30-17.45	End day 3 and closure Training school
	Departure