



Treesearch Focus Course: Packaging Materials

Course leader: **Prof. Magnus Lestelius**

Date: **June 10-13, 2019**

Place: **Karlstad University, Karlstad**

Principal lecturers:

<i>Urban Karlstam</i>	Motherland	urban.karlstam@motherland.se	UK
NN2 (Livsmedelsverket)	Livsmedelsverket	n.n2@xx.com	NN2
Prof. Magnus Lestelius	KaU	magnus.lestelius@kau.se	MLe
NN3 (Machine designer)	XX2	n.n3@xx.com	NN3
NN6 (Food producer)	XX6	n.n6@xx.com	NN6
NN1 (Containerboard)	XX1	n.n1@xx.com	NN1
Dr. Christer Korin	ÖrU	christer.korin@oru.se	CK
Prof. Artem Kulachenko	KTH	artem@kth.se	AK
Assoc. Prof. Raza Naqvi	KaU	raza.naqvi@kau.se	RN
Dr. Martin Grimberg Löfgren	KaU	martin.lofgren@kau.se	MGL
Dr. Mikael Gällstedt	Stora Enso	mikael.gallstedt@storaenso.com	MG
Dr Henrik Ullsten	KaU	henrik.ullsten@kau.se	CJ

Monday, June 10 13.00-17.00 (19.00-) Lecture room XX

Lecturer/laboratory no; SUBJECT	LECTURER
Packaging – overview and aspects of converting/service life	
1. (13.00-13.15) Welcome and introduction.	15 mins ML
2. (13.15-15.15) New materials for (food) packaging	2 hrs MG
3. (15.30-17.30) Packaging design – means and conditions for positioning brands and packaged goods.	2 hrs UK

Evening activity (19.00-): Get Together at XX. Ensuing pub evening at your own leisure.

Tuesday, June 11 08.00-17.00 Lecture room XX

Lecturer/laboratory no; SUBJECT	LECTURER
Package materials, regulations/standards and converting for food packaging	
4. (08.00-10.00) Food packaging, methods and requirements	2 hrs NN6
5. (10.00-12.00) Regulatory affairs for food packaging (in Sweden and EU)	2 hrs NN2
LUNCH	
6. (13.00-15.00) Some materials properties of packages and relations to unit processes in converting and to service life for package integrity (forming, stacking and cracking)	2 hrs AK
7. (15.00-17.00) Choice of Packages/Packaging materials (Conatainerboard) for sustainability and enhanced customer satisfaction	2 hrs NN1

Wednesday, June 12 08.00-17.00 (19.00-) Lecture room XX

Lecturer/laboratory no; SUBJECT	LECTURER
Materials and resource handling and recycling, and business chain	
8. (08.00-13.00) Study visit: Food manufacturing and packaging (Barilla, Filipstad)	4 hrs ML
LUNCH	
9. (14.00-15.30) Converting machinery	2 hrs NN3
10. (16.00-17.30) Materials and converting operations, General	2 hrs ML

Evening activity (19.00-): Course Dinner at Restaurang XX.

Thursday, June 13 08.30-17.30 Lecture room XX

Lecturer/laboratory no; SUBJECT	LECTURER
Materials (plus new and renewable) and processing	
11. (08.00-10.00) Sustainable packaging? Sustainability assessment theory and applications.	2 hrs RN
12. (10.00-12.00) Processing of renewable barrier materials for food packaging	2 hrs HU
Sustainability, Converting, Hand out of home exam, End of course	
13. (13.00-15.00) Packaging, a customer and service perspective.	2hrs MGL
14. (15.00-17.00) Some materials properties of packages and relations to unit processes in converting and to service life for package integrity (filling, sealing and opening)	2hrs CK
15. (17.00-17.20) Instructions and hand out of exam. Course evaluation.	20 mins ML

University Map, with numbers/code for Buildings



Some places of Interest during

