

Course schedule for the post-graduate NOVA course “Sustainable Ruminant Production Systems in a Global Perspective – NOVA1”, 4 ECTS, at the Department of Animal Environment and Health, SLU Skara, November 23-27, 2009.

Date	Time	Items	Teachers
		Theme: “Ruminant production systems”	
23/11-09	08.30 – 09.00	Introduction of the course	Course leaders
	09.00 – 09.30	Definition of sustainable production systems	Padraig O’Kiely, Ireland
	09.30 – 9.45	Coffee/tea break	
	9.45 – 10.45	Types of production systems for dairy cattle	Jan Hultgren, SLU
	10.45 – 12.00	Types of production systems for beef cattle	O’Kiely, Ireland/ Luis Gustavo Barioni, Brazil
	12.00 – 13.00	Lunch	
	13.00 – 14.00	Types of production systems for small ruminants	Hanne Hansen, LIFE, Univ. of Copenhagen
	14.00 – 14.15	Summary, discussion	Heriberto Rodriguez - Martinez, SLU
	14.15 – 14.30	Coffee/tea break	
	14.30 – 17.00	Workshop I: Nordic ruminant production systems: are they sustainable at present? Presentations by students working in these research areas (5 min/pers). Includes a 20 minute break.	Moderator: Padraig O’Kiely, Ireland
		Theme: “Sustainable feed production”	
24/11-09	8.30 – 9.30	Feed production, general concepts	Padraig O’Kiely, Ireland
	9.30 – 9.45	Coffee/tea break	
	9.45 – 10.45	Grazing and crop rotations	Hanne Hansen, LIFE, Univ. of Copenhagen
	10.45 -11.45	Harvesting and feeding management	Padraig O’Kiely, Ireland
	11.45 – 13.00	Lunch	
	13.00 – 14.00	Cost-efficient feed production	Lartey Lawson, LIFE, Univ. of Copenhagen
	14.00 – 14.15	Summary, discussion	Elisabet Nadeau, SLU
	14.15 – 14.30	Coffee/tea break	
	14.30 – 17.00	Workshop II: Competition for land for feed production or for other purposes? Presentations by students working in these research areas (5 min/pers). Includes a 20 minute break.	Moderator: Padraig O’Kiely, Ireland
		Theme: “Sustainable milk production”	
25/11-09	8.30 – 9.30	Sustainable dairy cow production systems, today and in the future	Christian Swensson, Swedish Dairy Association / SLU
	9.30 - 9.45	Coffee/tea break	
	9.45 – 10.45	High milk yield by dairy cows, sustainable?	Heriberto Rodriguez, SLU
	10.45 – 11.45	Sustainable milk production systems for small ruminants, today and in the future	Lars Olav Eik, UMB
	11.45 – 13.00	Lunch	
	13.00 – 14.00	Economics of milk production (dairy, sheep, goat)	Lartey Lawson, LIFE, Univ. of Copenhagen
	14.00 – 14.15	Summary, discussion	Birgitta Johansson, SLU
	14.15-14.30	Coffee/tea break	
	14.30 – 17.00	Workshop III: The robust ruminant; health, welfare, productivity and product quality. Presentations by students working in these research areas (5 min/pers). Includes a 20 minute break.	Moderator: Christian Swensson, Swedish Dairy Association / SLU
		Theme “Sustainable meat production”	
26/11-09	8.15 – 9.30	Sustainable beef production systems, today and in the future	O’Kiely, Ireland / Barioni, Brazil

	9.30 – 9.45	Coffee/tea break	
	9.45 – 10.45	Animal health and welfare	Mats Törnquist, The Swedish Animal Health Service and Lars Olav Eik, UMB
	10.45 – 11.45	Sustainable meat production systems for small ruminants, today and in the future	Lars Olav Eik, UMB
	11.45 – 12.45	Lunch	
	12.45 – 13.45	Guided tour of Götala beef and sheep research station	Elisabet Nadeau and Anna Hessele, SLU
	13.45 – 14.45	Economics of meat production (both beef and sheep, goat)	Karl-Ivar Kumm, SLU
	14.45 – 15.00	Coffee/tea break	
	15.00 – 17.30	Workshop IV: Extensive or intensive meat production: animal health, welfare, product quality and economics. Presentations by students working in these research areas (5 min/pers). Includes a 20 minute break.	Moderator: Padraig O’Kiely, Ireland
		Theme: "The impact of ruminant production systems on the environment"	
27/11-09	8.15 – 9.15	Climate change and dairy production, including feed and gaseous emissions	Jan Bertilsson, HUV, SLU
	9.15 – 10.15	Climate change and beef/sheep production, including feed and gaseous emissions	Luis Gustavo Barioni, Brazil
	10.15 – 10.30	Coffee/tea break	
	10.30 – 12.30	Workshop V: Climate changes and ruminant production systems. Where are we heading? Presentations by students working in these research areas (5 min/pers). Includes a 10 minute break.	Moderator: Luis Gustavo Barioni, Brazil
	12.30 – 13.00	Course ends	

Teachers

Padraig O’Kiely, PhD, Senior Principal Research Officer, Head of The Beef Production Research Department, Grange Beef Research Centre, Teagasc, Grange, Ireland.

Dr. Luís Gustavo Barioni, PhD, Modelagem e Simulação de Sistemas (Systems Modeling and Simulation), Embrapa Cerrados, BR 020 Km 18, Planaltina, DF – Brasil, CEP 73310-970.

Hanne Hansen, PhD, Associate Professor, LIFE, University of Copenhagen, Denmark.

Lartey Lawson, PhD, Assistant Professor in Agricultural Economics, LIFE, University of Copenhagen, Denmark.

Lars Olav Eik, PhD, Associate Professor, UMB, Norway.

Mats Törnquist, The Swedish Animal Health Service, Sweden.

Christian Swensson, PhD, Associate Professor, Swedish Dairy Association / SLU, Sweden.

Jan Bertilsson, PhD, Associate Professor in Animal Science, SLU, Sweden.

Jan Hultgren, DVM, PhD, Associate Professor, SLU, Sweden.

Heriberto Rodriguez-Martinez, DVM, PhD, Professor, SLU, Sweden.

Karl-Ivar Kumm, PhD, Associate Professor of Agricultural Economics, SLU, Sweden.