

DEPARTMENTAL SEMINAR SERIES

TITLE: **Alternative feed ingredients for farm animals:
reducing competition between animals and humans for food resources**

SPEAKER: *Dr. Kees de Lange, Department of Animal and Poultry
Science, University of Guelph*

LOCATION: Room 1307 - Thornbrough

TIME: 3:35 pm

DATE: Wednesday, March 25, 2015

ABSTRACT

The rapidly growing global demand for food protein of animal origin, the increasing competition between humans and animals for limiting feed and food resources, and climate change are key challenges for food animal production systems. These challenges force us to increase usage of co-products from food and biomaterial industries in animal diets. Important aspects of using these co-products are feed and food safety, practical means to improve their feeding value, and effects on end-product quality. A systematic (modeling) approach to utilization of co-products and other resources in practical animal management will lead to viable and sustainable production of animal protein to meet the growing global demand and contribute to the Canadian economy. In this approach, characteristics of plants that serve as substrate for animal feed should also be considered.

Biography

Dr. Kees de Lange is Professor of Swine Nutrition at the University of Guelph. His main areas of research are means to increase the nutritional value of pig feed ingredients, the mathematical representation of the biology of nutrient utilization, and modelling financial and environmental impact of alternative management strategies for pigs. He has served on a number of committees, including the committee to generate the 2012 USA National Research Council publication 'Nutrient Requirements of Swine'. He has co-authored more than 150 peer reviewed publications and book chapters, has been the primary supervisor for more than 50 graduate students and post-doctoral fellows.