



October 18, 2005

06pims017: Joint Workshop on Agro-Ecosystem Nutrient Flow Modeling

Organizers:

Clark, Grant, University of Alberta, grant.clark@ualberta.ca

Newlands, Nathaniel, Agriculture and Agri-Food Canada, newlandsn@agr.gc.ca

Zuidhof, Martin, Alberta Agriculture, Food and Rural Development, martin.zuidhof@gov.ab.ca

Location:

University of Alberta

PIMS Sites:

University of Alberta

Objectives:

This joint workshop preceding the national meeting of the Canadian Society for Bioengineering and the international meeting of the Poultry Science Association will explore developments in the theory and application of numerical modeling of nutrient flow through agri-food production systems. A morning symposium and afternoon workshop will focus on the optimization of system dynamics given multiple objective functions under economic, environmental, and social constraints. General presentations will discuss applicable classes of models, integration of diverse data sources, and interaction of processes among scales. Specific applications will address production scenarios in the poultry industry and related agri-food systems.

Comments:

The workshop will provide an opportunity for networking among professionals and students in the agri-food industry interested in the use of numerical models and simulation to address

optimization problems in nutrient flow. More generally, the workshop is intended to stimulate interest in the use of numerical modeling in agri-food research and industry. This one-day workshop will be a lead-up to a larger 5-day workshop at BIRS in planning for 2007.

Audience:

Participants will be drawn from delegates to the conferences of the Canadian Society for Bioengineering and the Poultry Science Association. Delegates to these conferences include students, educators, engineers, scientists, extension specialists, administrators, and producers working in industrial, academic, and government sectors. The Bioengineering conference attendees are active in the agriculture, agri-food, and forestry industries, and in bioengineering applications in other industries. Poultry science delegates similarly work in all aspects of poultry production, processing, and marketing. Students are encouraged to participate in both of these conferences and associated workshops, with incentives including reduced conference registration fees, and student paper and poster competitions with cash prizes.

Participants:

Robert Grant (invited speaker)
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Earth Sci 340B, University of Alberta
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Henry Janzen (invited speaker)
Environmental Program
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Nathaniel Newlands (confirmed speaker)
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Robert Kok (confirmed speaker)
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Macdonald Campus of McGill University

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Grant Clark (confirmed speaker)
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Amount Requested:

2600.00

Expenditures:

Expenditures		
Symposium speakers - honoraria (5 @ \$500)		\$2,500
Workshop instructors - travel and accommodation (2 @ \$5,000)		\$10,000
Venue rental	\$750	
Breakfast (50 participants @ \$10)		\$500
Lunch (50 participants @ \$25)		\$1,250
Publications (5 articles @ 6 pp @ \$120/p)		\$3,600

Total	\$18,600	

Income:

Canadian Society for Bioengineering (workshop registration)	\$750
Poultry Science Association (workshop registration)	\$750
Poultry Science Association	\$2,000
Alberta Crop Industry Development Fund	\$5,000
Alberta Livestock Industry Development Fund	\$5,000
Alberta Agriculture, Food and Rural Development	\$2,500

Subtotal	\$16,000
PIMS	\$2,600

Total	\$18,600

Selected Dates:

Sun, July 16, 2006

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