

# Ecological Implications of Adaptive Behaviour

A new Current Themes Symposium

November 3, 2006

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How does adaptive behavior affects the structure and evolution of ecological communities? Behavioral flexibility in organisms has a major impact on both their ability to persist in an environment and their evolutionary development in that environment. Behaviors that affect species interactions are particularly important for predicting the abundance of species within biological communities.

Understanding these behaviors can be essential in applied ecology, conservation biology and fisheries management. Other behaviors that act within a species, such as mate choice, can be important in processes such as speciation and density dependent population regulation.



The symposium will address the ways in which behavioral components of interactions can be measured and modeled. It will explore the predictions of models that incorporate adaptive behavior, using problems ranging from the change in ecosystem functioning with global warming to the optimal harvesting of biological resources. It will also highlight the variety of unexplored problems associated with the interactions among behavioral, ecological, and evolutionary processes.



The symposium will be followed by an international Ph.D. course on Consumer Resource Interactions. For more information on this course click [here](#).

## Organisation

**Organisation:**

[Dr. Wolf Mooij](#), [Netherlands Institute of Ecology](#), The Netherlands.

**Advice and overview:**

[Prof. Hans de Kroon](#), [Experimental Plant Ecology](#), Radboud University Nijmegen, The Netherlands.

**Logistics:** [Els Kakisina](#), [Netherlands Institute of Ecology](#).

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**For practical questions:**

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## Location of the Ecological implications of adaptive behavior Symposium

**Date:** November 3, 2006

**Venue:** WICC, Wageningen The Netherlands

**Admission, including lunch:** €22,50 (Students & PhDs: €12,50)

**Starting time:** 10.00 hrs.

**Registration:** [Click here to register](#)

[Address and route](#) to the Wageningen International Conference Centre (WICC).

### Programme

[Print version](#)

10.00-10.30	Registration and coffee
10.30-10.45	<b>Wolf Mooij, Organizing committee</b> Introduction: aim of the day, red thread
10.45-11.30	<b>Peter Abrams</b> (Department of Zoology University of Toronto, Canada) <a href="#">Population dynamical consequences of the intertwined behaviors of predators and prey</a>
11.30-12.00	<b>Matthijs Vos</b> (University of Victoria, Victoria, Canada and Netherlands Institute of Ecology, Yerseke, The Netherlands) <a href="#">The consequences of community complexity for adaptive responses in predators and prey</a>
12.00-12.30	<b>Don DeAngelis</b> (U.S. Geological Survey, Florida Integrated Science Centers, University of Miami, USA) <a href="#">Individual-based Modeling Approach to Adaptive Behavior</a>
12.30-13.45	Lunch
13.45-14.30	<b>Hanna Kokko</b> (Laboratory of Ecological and Evolutionary Dynamics, University of Helsinki, Finland) <a href="#">Love and hatred in a world of feedback</a>
14:30-15.00	<b>Franjo Weissing</b> (Centre for Ecological and Evolutionary Studies, University of Groningen, The Netherlands) <a href="#">The evolution of ecological inefficiency</a>
15.00-15.30	Tea
15.30-16.00	<b>Jaap van der Meer</b> (Royal Netherlands Institute for Sea Research, Texel, The Netherlands) <a href="#">Interference competition and the spatial distribution of foragers</a>
16.00-16.45	<b>John Fryxell</b> (University of Guelph, Canada) <a href="#">Spatial dynamics and wildlife conservation in the Serengeti ecosystem</a>
16.45	End