



Hot Issue: The Ecology of Temperature

A new Current Themes Symposium

November 23, 2005

[Introduction](#)

[Location and programme](#)

[Organisation](#)

[Home](#)



Organisms need to respond to a wide range of environmental variables to successfully reproduce and survive, and one of the key variables is temperature. Focusing only on how, i.e via which mechanism, temperature impacts development, growth, reproduction and other life history traits, will not provide the full answer about the role of adaptation to temperature. For this we also need to address the evolutionary question why the mechanisms are shaped the way they are. Only then will we be able to predict the responses of animals to future environments as they will occur as the result of man-induced large scale climate change.



Although the integration of physiology and ecology around adaptive mechanisms is applicable to a wide range of environmental factors, during this one-day conference we will focus on adaptation to temperature change. Links will be made from the molecular level all the way up to biodiversity. Renowned speakers will address crosscutting subjects by focusing on the molecular control of temperature adaptation, the role of selective pressures by temperature change, the impact on body size and niche-differentiation, and ultimately the impact of global climatic change to biodiversity.



The speakers include some of the leading figures in this field, including Prof. John Reynolds (Simon Fraser University, Canada), Prof. Jeff Bale (University of Birmingham, UK) and Dr. Camille Parmesan (University of Texas, US).

Organisation

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[Dr. Jan Kammenga, Wageningen University](#)

[Dr. Bas Zwaan, Leiden University](#)

[Prof. Marcel Visser, Netherlands Institute of Ecology](#),
the Netherlands.

Advice and overview:

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

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For practical questions:

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Location of the Ecology of Temperature Symposium

Date: November 23, 2005

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	Organizing committee Introduction: aim of the day, red thread.
10.45-11.30	Camille Parmesan (University of Texas, Austin, US) <i>Umbrella talk</i> Impacts of Recent Climate Change: Understanding Responses and Future Projections for Wild Systems
11.30-12.15	Vaughan Hurry (Umeå Plant Science Center, Sweden): Molecular and physiological responses of temperature adaptation in plants
12.15-13.30	Lunch
13.30-14.00	Zoltan Bochdanovits (Vrije Universiteit, Amsterdam, NL): Gene-environment interactions and adaptive changes to temperature in fruitflies.
14.00-14.45	Jeff Bale (University of Birmingham, UK): Insect thermal biology: from theories to applications.
14.45-15.15	Tea
15:15-15:45	Marcel Visser (Netherlands Institute of Ecology, NL): Climate change leads to selection on temperature sensitivity of avian phenology.
15.45-16.30	John Reynolds (Canada): Implications of Climate Change for Fish and Fisheries.
16.30	End