

**The 5th ACEVS-CVS Summer School on Animal Navigation**  
**27 November - 1 December 2006**

ARC Centre of Excellence in Vision Science & Centre for Visual Sciences  
Research School of Biological Sciences  
Australian National University  
Canberra

**Target Group:** 3rd year, honours and PhD students of Biology, Psychology and Robotics

**Topics:** Principles, concepts and experimental techniques in animal and robot navigation. Landmark guidance, view-based homing, path integration, odometry, biological compasses and animal migration. Optic flow processing and neuro-ethological robotics.

**Lecturers:** (Preliminary) Nick Barnes, Ken Cheng, Michael Ibbotson, David O'Carroll, Judith Reinhard, Mandyam Srinivasan, Gert Stange, Michael Walker, Jochen Zeil, Shaowu Zhang, Uwe Zimmer and others.

**Deadline for Applications: 6 October 2006**

See below for How to Apply.

For further enquiries contact Prof. Srinivasan (M.[Srinivasan@anu.edu.au](mailto:Srinivasan@anu.edu.au)) or Jochen Zeil ([jochen.zeil@anu.edu.au](mailto:jochen.zeil@anu.edu.au)).

The mechanisms of animal navigation are internationally a hot research topic, not only in biology, but also in robotics. This summer school aims to introduce students from Australia and New Zealand to a fascinating and rapidly developing multi-disciplinary research field. We plan to have daily sessions of lectures, seminars and practical demonstrations, in a discussion-based, round-table environment, on the following topics:

### **Preliminary schedule**

Day 1: ***Animal Navigation: An Overview of Phenomena and Mechanisms***

Day 2: ***Large-scale Navigation: Magnetic Navigation and Tracking the Global Movements of Animals***

Day 3: ***Honeybee Navigation***

Day 4: ***Neurobiology of Optic Flow Processing***

Day 5: ***Robot Navigation: Engineering Solutions vs Biological Inspiration.***

**Venue:** Robertson Seminar Room, Research School of Biological Sciences (RSBS), The Australian National University (ANU), Canberra

### **How to apply**

Please send

- A covering letter explaining why you are interested in Animal Navigation and a brief description of the research project you are currently working on or which you are planning to do in future. Please indicate in the letter whether you would need travel assistance.

- Your CV, including your transcript.
- One brief letter of reference.

to:

**Cathie Stewart-Moore  
ACEVS-CVS Summer School 2006  
Research School of Biological Sciences  
Australian National University  
P.O. Box 475  
Canberra, ACT 2601  
Australia**

**Deadline: 6 October 2006**

Accommodation and meals are provided. Travel assistance is also available. Please note that there will be only 20 places in the Summer School and that the selection process may therefore be very competitive. However, the Summer School is a yearly event, so that there will be more opportunities to take part over the next few years.

We will notify you of the outcome of your application by 16 October 2006.