



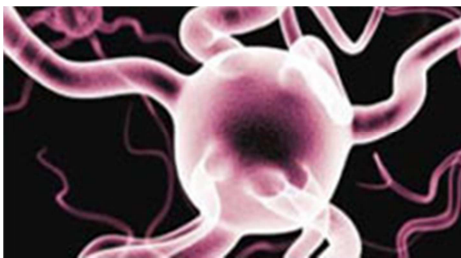
2nd International Conference on Neural Field Theory

University of Reading, April 19 - 21, 2012

Organised by Stephen Coombes, Peter beim Graben, Roland Potthast and Douglas Saddy

Local Organizing Committee: Kelly Sloan, Natalie Lowery and Alexander Moodey

Neural Computation and Neural Field Theory is a growing and very active area of research with important applications in medicine and technology. Activities range from the simulation of individual neurons to numerical treatment of neural field equations, from modeling and identification of cognitive and psychological processes in a neural environment to building natural or artificial devices. The community



includes researchers from medicine, psychology, physics, mathematics and engineering, where ideas from different fields lead to a truly interdisciplinary and highly catalyzing environment. On this background the Reading Conferences on Neural Field Theory contribute to the further development and shaping of the community by bringing together well-known and young researchers in an inspiring mixture of tutorials, special sessions and invited talks by leaders in the field.

Plenary speakers include **Bard Ermentrout** (Pittsburgh), **Olivier Faugeras** (INRIA), **Victor Jirsa** (Marseille), **Ingo Bojak** (Birmingham), **Will Penny** (UCL) and **Ying Zheng** (Sheffield)

Time	Thursday	Friday	Saturday
9:00	Opening		
9:15-10	Invited Talk	Invited Talk	Invited Talk
10-10:30	Coffee	Coffee	Coffee
10:30-12:30	Special Sessions	Special Sessions	Special Sessions
14:15-15	Invited Talk	Invited Talk	Invited Talk
15-15:30	Coffee	Coffee	Finish
15:30-18:00	Tutorial Afternoon and Poster Session	Contributed Talks	
19:00		Conference Dinner	

Special Sessions include:

- ❖ **Special Solutions to Neural Field Equations** (Anna Oleynik/John Wyller, UMB Norway)
- ❖ **Stochastic Methods in Neural Field Theory** (Evelyn Buckwar, University of Linz, Austria)
- ❖ **Dynamics and Cognition** (Dimitris Pinotsis, UCL United Kingdom)
- ❖ **Cognitive Modelling** (Peter beim Graben, Humboldt University Berlin, Germany)

Special Sessions consist of 3-4 Talks of 30min coordinated by their organizer. If you want to organize a special session, please contact Prof. Roland Potthast at r.w.e.potthast@reading.ac.uk

Open Tutorials (Thursday):

1. Peter beim Graben: **Modeling and Physical Background of Neural Field Theory**
2. Stephen Coombes: **The Mathematics of Neural Field Theory**
3. Roland Potthast: **Cognitive Modeling and Inverse Methods for Neural Field Theory**

Titles for contributed talks and abstracts for posters should be sent to Natalie Lowery, n.l.h.lowery@pgr.reading.ac.uk or Alexander Moodey a.j.f.moodey@pgr.reading.ac.uk.