

SECOND EUROPEAN CONFERENCE ON ECOLOGICAL PSYCHOLOGY

University of Strathclyde, Glasgow,

24th - 26th June 1992

PROGRAMME

Wednesday 24th June

- 8.30-9.00 Registration.
9.00-9.10 Introductory remarks.
- 9.10-10.50 Symposium: Evolution and Ecological Relations.**
Organiser: John Pickering (Warwick University)
- 9.10-9.20 Introduction: John Pickering.
- 9.20-9.40 Thermodynamic reasons for perception-action coupling.
Rod Swenson (University of Connecticut).
- 9.40-10.00 The biosphere as a unique inertial frame: thermodynamics, phenomenology and semiotics.
Ken Wilson (University of Aberdeen).
- 10.00-10.20 Niche construction and feedback.
John Odling-Smee (Brunel University).
- 10.20-10.40 Evolution as history.
Alan Costall (University of Southampton).
- 10.40-10.50 General Discussion
- 10.50-11.20 **COFFEE**
- 11.20-11.40 The ontogenesis of social cognition within a mutualist framework.
Arthur Still and Jim Good (University of Durham).
- 11.40-12.00 Social affordances: an integrative view.
Jim Good and Stavros Valenti (Durham and Hofstra University, New York).
- 12.00-1.00 **LUNCH (buffet style).**
- 1.00-3.00 Symposium: Material Culture and Cognition.**
Organiser: Alan Costall (University of Southampton).
- 1.00-1.10 Introduction: Alan Costall.
- 1.10-1.30 What children's perception of tools could tell archaeologists.
Lieselotte van Lecuwen (University of Nijmegen) and Michael Katzo (University of Semarang, Indonesia).

- 1.30-1.50 Books in running brooks: the embodiment of practice in the archaeological record.
Paul Graves (University of Southampton).
- 1.50-2.10 Title to be announced.
Ado Smitsman (University of Nijmegen)
- 2.10-2.30 Inheriting material culture.
Stephen Shenan (University of Southampton).
- 2.30-2.50 General Discussion.
- 2.50-3.20 **TEA/COFFEE**
- 3.20-5.20 Symposium: Stability, (a)symmetry and constraints in two-effector coordination.**
Organisers: Peter Beek (Free University of Amsterdam) and Yves Guiard (Cognitive Neuroscience Laboratory, Marseille).
- 3.20-3.25 Introduction: Yves Guiard.
- 3.25-3.45 From interlimb coordination to action-perception coupling: common principles.
Gregor Schonher (Ruhr-Universitat Bochum).
- 3.45-4.05 Spatial and lateral constraints: how do they relate to the temporal constraints during bimanual coordination?
Jacqueline Fagard (Laboratoire de Psychobiologie de l'Enfant, Paris).
- 4.05-4.25 The topology of limb deceleration in prehension.
Frank Zaal and Reinhoud Bootsma (Free University of Amsterdam).
- 4.25-4.45 Specificity in interlimb coordination.
Peter Beek, Walther Rikkert and Dagmar Sternad (Free University of Amsterdam and University of Connecticut).
- 4.45-5.05 Effects of a distorted perception-action coupling on relative phase and relative amplitude in a bimanual cyclical aiming task.
Yves Guiard and Thierry Ferrand (Cognitive Neuropsychology Laboratory, Marseille).
- 5.05-5.10 Concluding remarks: Peter Beek.
- 5.10-5.20 General Discussion.
- EVENING** There will be an evening of traditional Scottish music in the campus pub (The Lord Todd).

Thursday 25th June

- 9.00-11.00** **Symposium: Ecological Acoustics**
Organisers: Rainer Guski and Wolf Heine
(Ruhr-Universität Bochum).
- 9.00-9.05 Introduction: Rainer Guski and Wolf Heine.
- 9.05-9.25 Acoustical and optical information and
environmental dynamics.
Yves Guiard (Cognitive Neuropsychology
Laboratory, Marseille).
- 9.25-9.45 What in the world do we hear? How do we hear
in the world?
Bill Gaver (Rank Xerox, UK).
- 9.45-10.05 Using different kinds of auditory stimuli, re-
sponses and contexts in a spatial
stimulus-response compatibility task.
Wolf-D Heine (Ruhr-Universität Bochum).
- 10.05-10.25 Functions of head movements during auditory
localisation.
Andreas Hellmann (Ruhr-Universität Bochum).
- 10.25-10.45 The role of acoustical texture in perceiving
auditory events.
Rainer Höger (Ruhr-Universität Bochum).
- 10.45-11.10 General discussion.
- 11.10-11.40 **COFFEE.**
- 11.40-12.00 Electroacoustic sounds and virtual events: di-
rect perceptual structure and mediated signi-
fication in acoustic art.
Luke Windsor (City University).
- 12.00-12.20 The locations and organisation of expressive
movements in the performances of a solo pian-
ist.
Jane Davidson (University of Keele).
- 12.20-1.30 **LUNCH.**

- 1.30-3.15** **Symposium: Locomotion and Spatial Orientation.**
Organiser: Jimmie Thomson (University of Strathclyde)
- 1.30-1.40 Introduction: Jimmie Thomson.
- 1.40-2.00 Sensorimotor approach to locomotor disorders.
Daniel Mestre, Olivier Blin and Georges Serratrice (Cognition et Mouvement and Faculté de Médecine, Marseille).
- 2.00-2.20 Development of orientation to surrounding locomotor space.
Jimmie Thomson and Mairead Tagg (University of Strathclyde).
- 2.20-2.40 Updating position during blind locomotion: orientation to internal representations or to the environment?
Martin Farrell and Jimmie Thomson (University of Strathclyde).
- 2.40-3.00 Prospective gait control in a locomotor positioning task.
Michel Laurent, M-H Foxonet and Nicole Chapuis (University of Aix-Marseille I)
- 3.00-3.15 General Discussion.
- 3.15-3.45 **TEA/COFFEE.**
- 3.45-4.05 Are mobility-related affordances scaled by the optic undulations that accompany gait?
PJ Staapers, GJF Smets and CJ Overbeeke (Technical University of Delft).
- 4.05-4.25 Reaching for decelerating objects.
Audrey van der Meer (University of Edinburgh).
- 4.25-4.45 Familiar size as a source of time-to-collision error by drivers.
Douglas Stewart, Roly Lishman and Christopher Cudworth (University of Aberdeen).
- 4.45-4.55 Discussion.
- 7.00** **Dinner at the City Chambers, George Square at the invitation of the Lord Provost of Glasgow.**

Friday 26th June

- 9.00-9.40 **Keynote Speaker: David Lee (University of Edinburgh)**
Generalising Tau.
- 9.40-9.50 Discussion.
- 9.50-12.30 **Symposium: Taskspecific demands of coordinated movement patterns.**
Organisers: Walther Rikkert and Geert Savelsbergh (Free University of Amsterdam)
- 9.50-10.10 Introduction: Taskspecificity in infant reaching: the effect of posture.
Geert Savelsbergh, Brian Hopkins and John van der Kamp (Free University of Amsterdam).
- 10.10-10.30 Studies on serial order II: effects of practice conditions and cognitive load.
Stefan Vogt and Bruce Kay (Max Planck Institute, Munich).
- 10.30-10.50 How infants learn the specifics of a rythmical task.
Bruce Kay, Eugene Goldfield and Bill Warren (Brown University).
- 10.50-11.10 On the gating of energy in rythmic arm movements performed under different dynamic conditions.
Walther Rikkert, Peter Beek and Wiero Beek (Free University of Amsterdam).
- 11.10-11.40 **COFFEE.**
- 11.40-12.00 Taskspecificity of coordinated rythmic movements.
Herman Körndle (University of Regensburg).
- 12.00-12.20 The dynamic of human gait: form stiff walk to compliant walk.
Robert Wagenaar, Richard van Emmerik and Wiero Beek (Free University of Amsterdam).
- 12.20-12.30 General Discussion.
- 12.30-14.00 **LUNCH.**
- 14.00-16.10 **Symposium: Disorders of movement.**
Organiser: Patrick Haggard (University of Oxford).
- 14.00-14.15 Disorders of movement: an ecological problem?
Patrick Haggard (University of Oxford).
- 14.15-14.35 Timing characteristics in cerebral palsy.
Ruud van der Weel (University of Edinburgh).

- 14.35-15.10 **TEA/COFFEE.**
- 15.10-15.30 Perceptuo-motor coordination in children with cerebral palsy.
John Wann (University of Edinburgh).
- 15.30-15.50 Sensory-motor coordination of multi-joint movement in cerebral ataxia.
Patrick Haggard (University of Oxford).
- 15.50-16.00 Discussion.
- 16.00-16.20 General Discussion and Conclusions.
Walther Rikkert, Patrick Haggard and Geert Savelsbergh.
- 16.20-17.00 **Business meeting of the European Society for Ecological Psychology. Who's hosting the next meeting?!!!**

POSTERS

Posters will be displayed around the conference area and can be consulted at any time during the course of the conference. We shall not have time for a formal poster session.

Unique zone of proximal development: the basis for the support of education of attention, and perception and use of instructional affordances.

P Inahainen (Jyväskylä University, Finland).

The effect of orientation of optical flow on distance perception.

P Vianin and M Flückiger (University of Geneva).

Children and adults' speed of locomotion in an optical flow.
R Martin, B Baumberger and M Flückiger (University of Geneva).

Specification of three-dimensional position in scaled active shadowcasters.

PJ Staapers and GJF Smets (University of Delft).

Tactile texture gradients: setting slants in 3-D space.
G Jansson and E Holmes (Uppsala University).

Temporal and spatial magnet effects in bimanual movement tasks.

T Schinauer (Ruhr-Universität Bochum).

Perception of acceleration.

RRD Oudejans and CF Michaels (Free University, Amsterdam).