

# Human Performance Modelling/ Human Behaviour Representation Workshop

## The University of Queensland

### 10 – 11 January 2005

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## Program

### Day One – 10 January 2005

- 9:00 am Welcome
- 9:10 am Workshop – **Wayne Gray**, Rensselaer Polytechnic Institute. “Advancing Towards a Rapprochement between Cognitive and Ecological Analyses: Embodied Cognition, Architectures of Cognition, and Soft Constraints.”
- 10:30 am Morning Tea (provided)
- 11:00 am Workshop – Wayne Gray (continued)
- 12:30 pm Lunch
- 1:30 pm Workshop – **Kevin Corker**, San Jose State University. “Application of Computational Human Performance Models to Air Traffic Management Automation Aiding: Analyses of En Route Aiding, Surface Operations Risk Assessment & Approach Metering Operations Along with Validation of Model Predictions.”
- 3:00 pm Afternoon Tea (provided)
- 3:30 pm Workshop – Kevin Corker (continued)
- 5:00 pm Day Close
- 7:00 pm Conference Dinner  
(Andrew Neal’s house)  
17 Kate Street,  
Toowong, QLD

### Day Two – 11 January 2005

- 9:00 am Seminar – **Peter Kwantes**, Defence R & D, Canada. “A role for formal psychological models in virtual operators.”
- 10:00 am Morning Tea (provided)
- 10:30 am Symposium – The University of Queensland air traffic control performance modeling program.  
**Andrew Neal**. “An overview of the ATC modeling program.”  
**Peter Lindsay**. “Operator choice modeling: A proof of concept.”  
**Selina Fothergill** “An exploratory study of conflict detection and conflict resolution strategies.”
- 12:00 pm Lunch
- 1:30 pm Symposium, cont.  
**Scott Boland** “On the integration of perception and reasoning in cognitive models, and their application to ATC”  
**Penelope Sanderson** “From TAAATS to stats: Destructive testing of density metrics”  
**Roger Remington**, NASA-Ames Research Center “Modelling patterns of performance in air traffic control operations”
- 3:00 pm Afternoon Tea (provided)
- 3:30 pm Invited Papers  
**Liz Sonnenberg**, University of Melbourne. “Integrating proactivity, reactivity and adaptivity: Prospects for BDI agent computation.”  
**Vic Demczuk**, Defence Science & Technology Organisation. “Using Human Performance Modelling to support Defence Capability Acquisitions.”  
**Marcus Watson**, The University of Queensland. “Using Cognitive Work Analysis to identify decision-making constraints for command agents”



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### Venue Details

Seminar Room 1  
Emmanuel College  
Sir William MacGregor Drive  
The University of Queensland  
St Lucia Qld 4072

Telephone 61 7 3871 9100

### Workshop Organiser

Dr Andrew Neal  
Key Centre for Human Factors  
The University of Queensland  
St Lucia Qld 4072

Telephone 61 7 3365 6372  
Email: andrew@psy.uq.edu.au