



K O N I N K L I J K E N E D E R L A N D S E
A K A D E M I E V A N W E T E N S C H A P P E N

Academy Colloquium The neural basis of unified consciousness

Date: 6 - 8 June 2018

Venue: KNAW, The Trippenhuis, Kloveniersburgwal 29, 1011 JV Amsterdam ([route description](#))

Programme

General set-up per talk: 30 minutes talk, 10 minutes discussion, chair: Edward de Haan (University of Amsterdam)

Wednesday 6 June 2018

9:30- 10:00 a.m. *Registration*

A: Philosophical considerations of unified consciousness

10:00- 10:45 a.m. Adam Barrett (University of Sussex, Brighton UK)
Perspectives on Integrated Information Theory

10:45- 11:15 a.m. Coffee and Tea

11:15- 12:00 a.m. Heleen Slagter (University of Amsterdam)
One conscious experience at a time: the basal ganglia and active inference

12:00- 1:30 p.m. Lunch

B: Theoretical considerations of unified consciousness

1:30- 2:10 p.m. Aikaterina Fotopoulou (UCL, London UK)
Integrating different perspectives on the self: The unifying role of 2nd person experiences

2:10- 2:50 p.m. Catherine Tallon-Baudry (ENS, Paris France)
Visceral inputs, brain dynamics and subjectivity

2:50- 3:20 p.m. Coffee and Tea

3:20- 4:00 p.m. Simon van Gaal (University of Amsterdam)
Information integration as a hallmark of consciousness?

4:00- 4:40 p.m. Timo Stein (University of Amsterdam)
Can visual short-term memory be unconscious?

4:40- 5:00 p.m. Break

5:00- 5:30 p.m. Discussion led by Floris de Lange (Donders Centre, Nijmegen)



Thursday 7 June 2018

C: Classic description of split-brain patients

- 10:00-11:00 a.m. Steve Hillyard (UC San Diego, USA)
Divided consciousness in split-brain patients: Historical perspective
- 11:00- 11:30 a.m. Coffee
- 11:30- 12:30 a.m. Lucas Volz (UC Santa Barbara, USA)
Divided consciousness in split-brain patients: Current controversies
- 12:30- 2:00 p.m. Lunch

D: New data of split-brain patients

- 2:00- 2:45 p.m. Paul Corballis (Auckland University, New Zealand)
The right hemisphere interpreter in split-brain patients
- 2:45- 3:30 p.m. Yair Pinto (University of Amsterdam)
Split-brain: one conscious agent with split perception
- 3:30- 4:00 p.m. Coffee and Tea
- 4:00- 4:45 p.m. Edward de Haan (University of Amsterdam)
Split-brain: What can be transferred and how?
- 4:45- 5:00 p.m. Break
- 5:00- 5:30 p.m. Discussion led by Peter Hagoort (Max Planck Insitute, Nijmegen)

Friday 8 June 2018

- 9:30- 10:00 a.m. *Registration*

E: Synesthesia and decoding unified consciousness

- 10:00- 10:40 a.m. Romke Rouw (University of Amsterdam)
Overunification in synesthesia
- 10:40- 11:00 a.m. Coffee and Tea
- 11:00- 11:40 a.m. Sebastien Marti (Neurospin, Paris France)
Time-resolved decoding of conscious and non-conscious mechanisms of working memory
- 11:40- 12:20 a.m. Johannes Fahrenfort (University of Amsterdam)
Parts, wholes and the wavering correlate of conscious perception
- 12:20-2:00 p.m. Lunch



F: Disunified consciousness in healthy adults

- 2:00- 2:40 p.m. Lucia Melloni (New York University)
Continuity of consciousness in time
- 2:40- 3:20 p.m. Victor Lamme (University of Amsterdam)
Why would consciousness need unity?
- 3:20- 3:40 p.m. Coffee and tea
- 3:40- 4:20 p.m. Umberto Olcese (University of Amsterdam)
Neuron-level information flow between brain areas across brain states: implications for consciousness
- 4:20- 5:00 p.m. Anil Seth (University of Sussex)
Hallucinating conscious unity
- 5:00- 5:30 p.m. Discussion on unified processing as a driver of consciousness
- 5:30- 7:00 p.m. Boat tour and drinks