

# ASSC8 Full Program

Unless indicated otherwise, all events will happen in the UA City Campus building R, Rodestraat 14. Room numbers starting with an 'R', like 'R001', all are located in that building.

## Satellite symposium on 'Coma and Impaired Consciousness'

THURSDAY JUNE 24

**8.30 - 18.00:** Satellite symposium on Coma and Impaired Consciousness (Room R001)

**Main speakers:** Adam Zeman, Bernard Baars, James Bernat, Joseph T Giacino, Jean-Michel Guérit, Andrea Kübler, Steven Laureys, Pierre Fiset, Adrian M. Owen, Nicholas D. Schiff, Joseph J. Fins

Full Program and abstracts: see page **101** of this program book

## Pre-conference workshops

FRIDAY JUNE 25

Numbers in **bold** refer to page of abstract, in this book

### Morning workshops (9.15 - 12.15)

|   |            |
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| The unity of consciousness - <b>Tim Bayne</b> (Room R007)                                 | <b>114</b> |
| On the plausibility of unconscious perception - <b>Daniel Holender</b> (R008)             | <b>115</b> |
| Non-sensory experience - <b>Bruce Mangan</b> (R125)                                       | <b>115</b> |
| From presence towards consciousness - <b>Mel Slater &amp; Maria Sanchez-Vives</b> (R 231) | <b>116</b> |

### Afternoon workshops (13.45 - 16.45)

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| Teaching consciousness - <b>Susan Blackmore</b> (R231)   | <b>116</b> |
| Action in perception: the enactive approach to perceptual consciousness - <b>Alva Noë</b> (R008) | <b>117</b> |
| Synaesthesia - <b>Noam Sagiv</b> (R125)  | <b>117</b> |
| Dolphin consciousness - <b>Sara Waller</b> (R007)  | <b>118</b> |

## ASSC8 Main Conference Full Program

Unless indicated otherwise, all events will happen in the UA City Campus building R, Rodestraat 14. Room numbers starting with an 'R', like 'R001', all are located in that building.  
Numbers in **bold** refer to page of abstract, in this book.

### FRIDAY JUNE 25

**17.00 - 18.10:** Opening lecture by **Petra Stoerig**: Reflections on self-recognition (R001) **25**

Chair: **Erik Myin**

followed by the proclamation of the **ASSC William James Prize**.

**18.15:** Opening reception at the 'Brantyser' (Sint-Jacobsmarkt 11-13)

### SATURDAY JUNE 26

**9.20 - 9.30:** Opening

**9.30 - 10.30: Keynote lecture by Stanislas Dehaene:** The transition from non-conscious to conscious processing: Simulations and experimental tests of a neuronal workspace model (R001) **26**

Chair: **Thomas Metzinger**

**10.30 - 11.00: Coffee Break** (Building R Entrance Hall, Rodestraat 14)

**11.00 - 13.00: Plenary Symposium: Brain function in pathological unconsciousness** (R001)

Chair: **Steven Laureys**

**Joy Hirsch:** Principles of functional neuroimaging **29**

**Steven Laureys:** Brain function in pathological unconsciousness **29**

**Adrian Owen:** Using functional neuroimaging to detect residual cognitive function in persistent vegetative state **29**

**Nicholas Schiff:** Characterizing residual cerebral activity following severe brain injuries **30**

**13.00 -14.30: Poster session 1** (Building R Entrance Hall, Rodestraat 14)

*Food will be available, for a 'walking Lunch'*

**Costa Vakalopoulos:** Answers to philosophical questions: a basis for premotor theory **63**

**Andrew Bailey:** Multiple Realizability, Qualia and Natural Kinds **63**

**Hans Dooremalen:** What is it Like to be a Gnat? **63**

**Sebastian Niklaus:** The Contribution of Neurophilosophy **64**

**Mathilde Byskov Jakobsen:** Self-directed Transcendental Arguments and the Unity of Consciousness **64**

**Ralph Hunt:** Time Out of Mind **65**

**Antonio Chella, Salvatore Gaglio, Marcello Frixione:** The Conscious Robotic Hand Project **65**

**Igor Aleksander:** Axioms Against Zombies **66**

**Joscha Bach:** Towards an AI perspective on Consciousness **66**

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| <b>Doris Eckstein &amp; Walter J. Perrig:</b> The time course of masked and unmasked homonyms in semantic priming  | 75 |
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### 14.30 - 16.30: Concurrent session 1

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| <b>Mark Christensen, Kristoffer Madsen, Rodney Cotterill, Torben Lund &amp; Karam Sidaros:</b> Premotor cortex underlying human consciousness  | <b>39</b> |
| <b>Claire Sergent &amp; Stanislas Dehaene:</b> All-or-none bifurcation in conscious report and in associated EEG components during the Attentional Blink   | <b>40</b> |
| <b>Mélanie Boly, Marie-Elisabeth Faymonville, Philippe Peigneux, Bernard Lambermont, Guy Del Fiore, Georges Franck, André Luxen, Maurice Lamy, Gustave Moonen, Pierre Maquet &amp; Steven Laureys:</b> Noxious somatosensory processing in the Minimally Conscious State | <b>41</b> |

**CS 1.3. Free will 1 (R014)                      Chair: J. Scott Jordan**

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| <b>Gilberto Gomes:</b> Free will, conscious intentions and the brain  | <b>43</b> |

**CS 1.4 Implicit learning (R008)                      Chair: William Banks**

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| <b>Robert Balas, Michal Wierzbachon &amp; Axel Cleeremans:</b> Effects of divided attention on controlled and automatic influences of memory in artificial grammar learning         | <b>44</b> |
| <b>Vinciane Gaillard, Arnaud Destrebecqz &amp; Axel Cleeremans:</b> Ageing and the relationships between consciousness and control  | <b>45</b> |
| <b>Elisabeth Norman &amp; Mark C. Price:</b> Fringe consciousness in implicit learning: Does personality make a difference?   | <b>45</b> |

**16.30 - 17.00: Coffee Break** (Building R Entrance Hall, Rodestraat 14)

**17.00 - 18.00: Plenary debate:** Stanislas Dehaene and Daniel Holender on the plausibility of unconscious perception. Moderated by Axel Cleeremans (R001)

## SUNDAY JUNE 27

**9.15 - 11.15: Plenary Symposium:**

**The relationship of visibility, brightness, and salience to visual awareness** (R001)

Chair: **Steve Macknick**

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| <b>Ronald Rensink:</b> Relating salience, attention, and visual awareness: The problem of ontological poverty | <b>31</b> |
| <b>Susana Martinez-Conde:</b> Shape and saliency are confounded in the early visual system                    | <b>31</b> |
| <b>Steve Macknick:</b> Physiological and perceptual studies of visibility and visual awareness in primates    | <b>32</b> |

**11.15 - 11.45: Coffee Break** (Building R Entrance Hall, Rodestraat 14)

**11.45 - 12.45: Keynote lecture by Takeo Watanabe:**

Perceptual learning without conscious awareness is not passive (R001) **26**

Chair: **J. Kevin O'Regan**

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**12.45 -14. 15: Poster session 2** (Building R Entrance Hall, Rodestraat 14)

*Food will be available, for a 'walking Lunch'*

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| <b>Michael J. S. Beaton:</b> A Proposal for a Modification to the Higher Order Thought Theory of Consciousness   | <b>80</b> |
| <b>Richard Brown:</b> Saying 'I Do' to Identity  | <b>80</b> |
| <b>Anton Frantzen:</b> A pragmatic account of the explanatory gap: exposing the underlying intuitions  | <b>81</b> |
| <b>Mariano L. Bianca:</b> Mental Representations and Consciousness   | <b>81</b> |
| <b>Roger Cook:</b> Two Criteria for Consciousness  | <b>81</b> |
| <b>Heike Schmidt-Felzmann:</b> In search of the elusive "ought"  | <b>82</b> |
| <b>Erik D. W. Rietveld:</b> The Nature of Everyday Coping: Reinterpreting Merleau-Ponty's phenomenology of concrete habitual coping in the light of Varela's naturalization of time-consciousness                | <b>82</b> |
| <b>Ariane Bazan, Helena De Preester &amp; Gertrudis Van de Vijver:</b> Representations in the Gap between Motor Intention and Motor Realization?   | <b>83</b> |
| <b>Zhihua Yao:</b> Buddhist Views on the Higher-order Consciousness  | <b>83</b> |
| <b>Marek McGann:</b> Taking Perspective Seriously: No Information Without Motivation   | <b>84</b> |
| <b>Gottfried Vosgerau, Albert Newen &amp; Jan Restat:</b> Perceptual Self-Acquaintance   | <b>84</b> |
| <b>Petra Stoerig &amp; Jan Breitzkreuz:</b> Know your hand? A study of visual self-recognition   | <b>85</b> |
| <b>Matt Twyman, Clare Harries &amp; Nigel Harvey:</b> Implicit and Explicit Trust for Self and Others  | <b>85</b> |
| <b>Joanna Sweklej &amp; Anika Paliszewska:</b> Consciousness and accuracy in categorisation of natural and computer-generated pictures of mimic expressions  | <b>86</b> |
| <b>Dorothee Legrand:</b> The Sensori-Motor Roots of Pre-Reflexive Self-Consciousness   | <b>86</b> |
| <b>Rebecca Todd &amp; Marc D. Lewis:</b> Gut Feelings: Self-Organizing Emotions, and Bodily Affect   | <b>87</b> |
| <b>Lois Isenman:</b> A Novel Kind Of Feeling of Rightness  | <b>87</b> |
| <b>Laure Delbecque &amp; Daniel Holender:</b> Training in basketball through motor imagery and task observation  | <b>87</b> |
| <b>Susan Blackmore:</b> A retro-selection theory of dreams   | <b>88</b> |
| <b>Tristan Bekinschtein, Jorge Niklison, Adrian Owen, Daniel Bor &amp; Facundo Manes:</b> An fMRI study on cognitive processing before and after recovery from posttraumatic vegetative state                    | <b>88</b> |
| <b>Caroline Schnakers, S. Majerus, S. Laureys, P. Van Eeckhout, P. Peigneux &amp; S. Goldman:</b> Neuropsychological Testing in Chronic Locked-in Syndrome: Preliminary Results from a Feasibility Study         | <b>89</b> |
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| <b>Joan Camprodon, Vincenzo Romei, Erin Halligan, Katsu Machii, Nancy Kanwisher &amp; Alvaro Pascual-Leone:</b> Role of feedback projections to early visual areas in face recognition: a TMS chronometric study | <b>90</b> |
| <b>Kausar Turabi:</b> Perceptual asymmetries in the formation of illusory conjunctions   | <b>91</b> |
| <b>Lucia Melloni, Carlos Molina &amp; Eugenio Rodriguez:</b> Role of neural synchronization in conscious perception  | <b>91</b> |
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| <b>Louise Whiteley, Kielan Yarrow, Patrick Haggard &amp; John Rothwell:</b> Fragmenting the perception of subjectively coherent events: contradictory spatial and temporal judgements of saccade targets         | <b>92</b> |
| <b>Ilya Farber:</b> Change blindness and the dynamical modeling of the perceptual world  | <b>93</b> |
| <b>Eike A. Schmidt &amp; Petra Stoerig:</b> Blindsight persists as cues are reduced  | <b>93</b> |
| <b>Sara L. Bengtsson, H Henrik Ehrsson, Toshihiro Hashimoto, Tomonori Kito, Fredrik Ullen, Eiichi Naito, Hans Forssberg &amp; Norihiro Sadato:</b> Perceiving Auditory Rhythms                                   | <b>94</b> |
| <b>Nathanael Laurent, Anne Wallemacq, Corentin Jacques &amp; Jean - Marie Jacques:</b> Discourse and perception: multidisciplinary study of fields of evocations   | <b>94</b> |
| <b>Patrice Terrier, Céline Lemerrier &amp; Christophe Quaireau:</b> Decision processes and recognition memory in an information retrieval task: there is more than one memory trace                              | <b>95</b> |
| <b>Agnes Daurat, Patrice Terrier &amp; Jean Foret:</b> Remembering and knowing in sleep-deprived subjects  | <b>96</b> |
| <b>Alessio Valente, Paola Aceto, Antonio Clemente, Elisabetta Congedo &amp; Germano De Cosmo:</b> Incidence of memories of intra-anesthetic events in post-operative interviews of surgical patients in 2004     | <b>96</b> |
| <b>Fumiko Tanabe &amp; Ken Mogi:</b> The labile and stable in memory reconsolidation   | <b>97</b> |

**14.15 - 16.15: Concurrent session 2****CS 2.1 Sensorimotor accounts (R007) Chair: Erik Myin**

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| <b>Aline Bompas &amp; J. Kevin O'Regan:</b> The role of action in sensation: evidence from colour perception             | <b>46</b> |
| <b>Gabriel Love:</b> Augmenting the enactive approach to perception  | <b>46</b> |
| <b>David Philipona, J. Kevin O'Regan &amp; Olivier J. M.D. Coenen:</b> On the intrinsic sensorimotor structure of colors | <b>47</b> |
| <b>Malika Auvray &amp; J. Kevin O'Regan:</b> Distal attribution in sensory substitution                                  | <b>47</b> |

**CS 2.2 Visual approaches (R008) Chair: Jonathan Cole**

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| <b>Anne Aimola Davies:</b> Unilateral Neglect: Ipsilesional Attraction or Ipsilesional Capture?   | <b>48</b> |
| <b>Roi Cohen-Kadosh, Noam Sagiv, David E. J. Linden, Lynn Robertson, Gali Elinger &amp; Avishai Henik:</b> When blue is larger than red - implicit activation of magnitude in synesthesia | <b>48</b> |
| <b>Noam Sagiv, Alexandra List &amp; Lynn Robertson:</b> Prosopo-Metamorphosis: when face perception goes wrong  | <b>49</b> |
| <b>Adam Zeman &amp; Lorna Torrens:</b> A case of blind imagination?   | <b>49</b> |

**CS 2.3 Memory, Attention and Sensory Integration (R013) Chair: Susana Martinez-Conde**

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| <b>Lars Hall, Petter Johansson &amp; Sverker Sikström:</b> Choice Blindness and Verbal Report  | <b>50</b> |
| <b>Patrick Wilken &amp; Wei Ji Ma:</b> A detection theory account of capacity limitations in change blindness                            | <b>50</b> |
| <b>William P. Banks &amp; Lauren Kong:</b> Implicit recognition memory as a criterial process  | <b>51</b> |
| <b>Jonathan Smallwood:</b> Subjective experience and the attentional lapse: Task Engagement and Disengagement During Sustained Attention | <b>51</b> |

**CS 2.4 Philosophy 2 (R014) Chair: Joachim Leilich**

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| <b>Dan Lloyd:</b> Neuronarratology: Consciousness and the Depth of the Present        | <b>52</b> |
| <b>Uriah Kriegel:</b> Consciousness and Binding: A Neo-Brentanian Speculation         | <b>52</b> |
| <b>Roblin Meeks:</b> The body and its owner: Defeating Cartesianism "from the inside" | <b>52</b> |
| <b>Herman C.D.G. de Regt:</b> Introducing matter-of-factism in the philosophy of mind | <b>53</b> |

**16.15 - 16.45: Coffee Break** (Building R Entrance Hall, Rodestraat 14)**16.45 - 18.45: Plenary Symposium: Dynamical approaches to Consciousness (R001)**Chair: **Alva Noë**

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| <b>Evan Thompson:</b> Neurophenomenology and the neurodynamics of consciousness                            | <b>33</b> |
| <b>Jean-Philippe Lachaux:</b> What was my subject doing ? The status of First person data in Brain Imaging | <b>33</b> |
| <b>J. Scott Kelso:</b> The complementary nature  | <b>33</b> |
| <b>Alicia Juarrero:</b> Consciousness as a dynamic attractor   | <b>34</b> |

**20.15: Conference dinner** at the Elzenveld, Lange Gasthuisstraat 45

**MONDAY JUNE 28**

**9.30 - 11.30: Plenary Symposium: Conscious volition: experimental and conceptual approaches (R001)**

Chair: **Patrick Haggard**

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| <b>Matthew Rushworth:</b> The medial motor areas and voluntary action                         | <b>35</b> |
| <b>Jonathan Cole:</b> The sense of agency in clinical patients with sensorimotor impairments  | <b>35</b> |
| <b>Patrick Haggard:</b> Neural events associated with awareness of simple intentional actions | <b>36</b> |
| <b>Pierre Jacob:</b> Varieties of self-awareness  | <b>36</b> |

**11.30 - 12.00: Coffee Break** (Building R Entrance Hall, Rodestraat 14)

**12.00 - 13.00: Keynote lecture by Martin Davies:**

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| Experience and delusions: The case of anosognosia (R001) | <b>27</b> |
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Chair: **Dan Lloyd**

**13.00 - 14.30: Lunch Break**

**14.30 - 16.30: Concurrent session 3**

**CS 3.1 Biology/techniques (R007) Chair: Geraint Rees**

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| <b>Bruno Breitmeyer, Tony Ro &amp; Haluk Ogmen:</b> Similarities and Differences Between Visual and TMS Masks in the Study of Conscious and Unconscious Processes in Human Vision | <b>53</b> |
| <b>Caroline Schnakers, S. Laureys &amp; S. Majerus:</b> A Comparison of Behavioural Assessment Tools and Electrophysiological Measures of Recovery from Coma                      | <b>54</b> |
| <b>Bruno van Swinderen:</b> Fruit fly approaches to studying consciousness-related variables  | <b>54</b> |
| <b>Sanja Petrovic &amp; Ramesh Srinivasan:</b> Temporal properties of binocular rivalry and the cortical dynamics of conscious experience   | <b>55</b> |

**CS 3.2 Phenomenology (R013) Chair: Peter Reynaert**

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| <b>Bruce Mangan:</b> The Conservation of Consciousness  | <b>55</b> |
| <b>Mark C. Price, Rune A. Mentzoni &amp; Elisabeth Norman:</b> Learning to be conscious: The progressive acquisition of new sensory qualia      | <b>56</b> |
| <b>Inez Myin-Germeys, Philippe Delespaul &amp; Jim van Os:</b> The Experience Sampling Method: a first-person approach to psychotic experiences | <b>56</b> |
| <b>Rafal Ohme:</b> Unconscious facial cues  | <b>57</b> |

**CS 3.3 Self (R014) Chair: TBA**

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| <b>Frederique de Vignemont:</b> On the scale of the body   | <b>58</b> |
| <b>Hans C. Lou, Sarah H. Lisanby &amp; Troels W. Kjaer:</b> Parietal cortex and representation of the mental self  | <b>58</b> |
| <b>John Barresi:</b> The neuroscience of theory of mind  | <b>59</b> |
| <b>Bernard J. Baars &amp; Stan Franklin:</b> Human self-awareness is mismatch-driven: Some implications for theory | <b>59</b> |

**CS 3.4 Free Will 2 (R008) Chair: Gilberto Gomes**

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| <b>J. Scott Jordan:</b> Empirical Effects of Conscious Will Reside in Outcomes not Actions   | <b>60</b> |
| <b>H. Henrik Ehrsson, Charles Spence &amp; Richard E Passingham:</b> That's my hand! Activity in the premotor cortex reflects the sense of ownership of a limb | <b>61</b> |
| <b>Michael Pauen:</b> Free will: conceptual considerations and empirical data  | <b>61</b> |
| <b>Andrea Kiesel, Annika Wagener, Joachim Hoffmann, Andreas J. Fallgatter &amp; Christian Stücker:</b> Unconscious manipulation of free choice in humans       | <b>62</b> |

**16.30 - 17.00: Coffee Break**

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| <b>17.00 - 18.00: Keynote lecture by Geraint Rees:</b><br>Neural correlates of conscious and unconscious vision (R001) | <b>28</b> |
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Chair: **Ned Block**