



Toronto, Canada
June 24th - 27th 2010

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LOCAL ORGANIZERS: Randy McIntosh, Mel Goodale, Maria Tassopoulos & Michel Ferrari

SCIENTIFIC PROGRAM COMMITTEE: Mel Goodale (Chair), Mitsuo Kawato, Sean Kelly, Su-Ling Yeh, Petra Stoerig, Evan Thompson, Victor Lamme & Olivia Carter



UNIVERSITY OF TORONTO
FACULTY OF MEDICINE



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ASSC14 Program and Venue Overview June 24th - June 27th

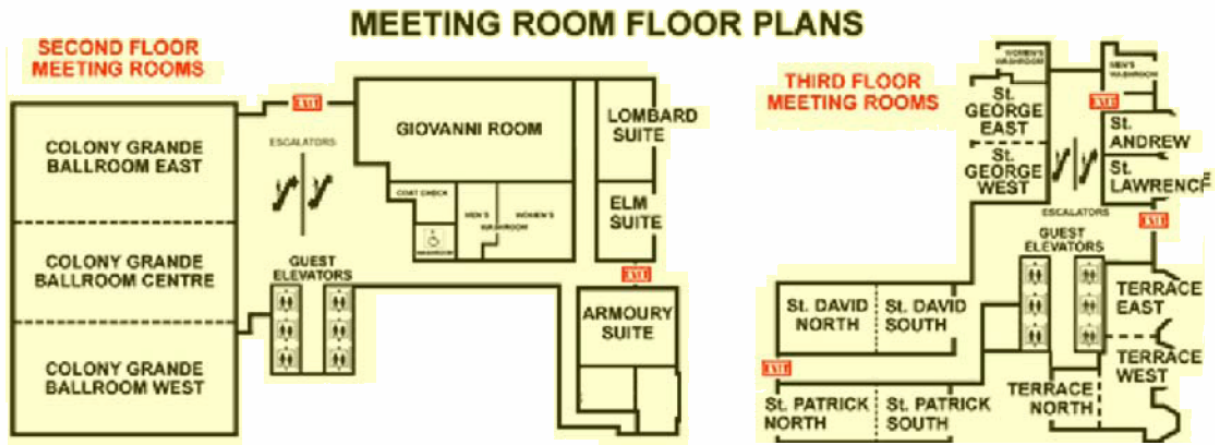
	Thurs. Jun 24	Fri. Jun 25	Sat. Jun 26	Sun. Jun 27
9:00 AM	Morning Tutorials 1 - Snodgrass & Lau 2 - Tong 3 - Berlin & Anderson 4 - Droege	Keynote 1 Nicky Clayton	Keynote 2 Mohan Matthen	Keynote 3 Morris Moscovitch
9:30 AM			Poster Exhibits	Poster Exhibits
10:00 AM		Coffee	Coffee	Coffee
10:30 AM		Symposium 1 Hakwan Lau, Stanislas Dehaene, Imogen Dickie & Ned Block	Symposium 2 John Dunne, Antoine Lutz, & Heleen Slagter	Symposium 3 Rama Chakravarthi Tim Vickery, David Whitney & Mark Neuwenstein
11:00 AM		Poster Exhibits up all day	Poster Exhibits up all day	
11:30 AM				
12:00 PM	LUNCH			
12:30 PM	Afternoon Tutorials 5 - Tsuchiya & Maier 6 - Cancelled 7 - Aleksander & Gamez 8 - Hoedlmoser & Schabus	LUNCH & Student mentor event	LUNCH & Posters	LUNCH & Posters
1:00 PM		Concurrent Session 1 A - C in Schedule	Posters Session Posters Session Posters Session Posters Session	Symposium 4 Naotsugu Tsuchia, Alex Maier, & Melanie Wilke
1:30 PM			Poster Exhibits up all day	Poster Exhibits up all day
2:00 PM				
2:30 PM				
3:00 PM				
3:30 PM		Coffee	Coffee & posters	Coffee & posters
4:00 PM	Welcome & James Prize	Concurrent Session 2 A - C in Schedule	Concurrent Session 3 A - C in Schedule	Posters Session Posters Session Posters Session
4:30 PM	Presidential Address Thomas Metzinger		Poster Exhibits up all day	Poster Exhibits up all day
5:00 PM				Keynote 4 Bob Knight
5:30 PM				
6:00 PM	Opening night reception			
6:30 PM				
7:00 PM		Student Social		
7:30 PM			Conference Dinner	ASSC14 After Party

Session

Tutorial 1 & 5
Tutorial 2 & 8
Tutorial 3 & 7
Tutorial 4
Welcome & Presidential Address
Keynotes & symposium
Concurrent Sessions (A)
Concurrent Sessions (B)
Concurrent Sessions (C)
Poster Sessions

Venue

Armoury Suite (2nd floor)
Lombard Suite (2nd floor)
Elm Suite (2nd floor)
St Lawrence (3rd floor)
Colony Ballroom (2nd floor)
Colony Ballroom (2nd floor)
Colony Ballroom East (2nd floor)
Colony Ballroom Center (2nd floor)
Giovanni Room (2nd floor)
St. Patrick & St David (3rd floor)



ASSC14 Conference Schedule
Thursday, June 24th

MORNING TUTORIALS (9:00am – 12:00pm) * You must register for tutorials*

TUTORIAL 1: Signal detection theory and distinguishing conscious vs. unconscious

Michael Snodgrass (University of Michigan, USA)

Hakwan Lau (Columbia University, USA)

Venue: Armoury Suite (2nd Floor)

TUTORIAL 2: Decoding visual and mental content from human brain activity

Frank Tong (Vanderbilt University, USA)

Venue: Lombard Suite (2nd Floor)

TUTORIAL 3: Neural Basis of Suppression, Repression and Dissociation

Heather Berlin (Mount Sinai School of Medicine, NY, USA)

Michael C. Anderson (MRC Cognition and Brain Sciences Unit, Cambridge, UK)

Venue: Elm Suite (2nd Floor)

TUTORIAL 4: What are mental representations, and does the mind need them?

Paula Droege (Penn State, USA)

Venue: St Lawrence Suite (3rd Floor)

-- Lunch Break --

AFTERNOON TUTORIALS (1:00pm – 4:00pm) * You must register for tutorials*

TUTORIAL 5: Attention and Consciousness: Two Distinct Brain Processes

Naotsugu Tsuchiya (Caltech, USA and Tamagawa University, Japan)

Alex Maier (National Institute of Health, USA)

Venue: Armoury Suite (2nd Floor)

TUTORIAL 6 - Cancelled

TUTORIAL 7: Informational Measures of Consciousness: Integration, Causality and State Structures

Igor Aleksander (Imperial College, London, UK)

David Gamez (Imperial College, London, UK)

Venue: Elm Suite (2nd Floor)

TUTORIAL 8: Train your brain ! Understanding and applying the neurofeedback technique

Kerstin Hoedlmoser (University of Salzburg, AUSTRIA)

Manuel Schabus (University of Liège, Belgium)

Venue: Lombard Suite (2nd Floor)

**ASSC14 Conference Schedule
Thursday, June 24th**

-- Conference Begins 4:00pm Thursday June 24th --

OPENING WELCOME (4:00pm – 4:10pm)

Olivia Carter

Venue: Colony Ballroom (2nd Floor)

WILLIAM JAMES PRIZE (4:10pm – 5:00pm)

Winner to be announced

Venue: Colony Ballroom (2nd Floor)

PRESIDENTIAL ADDRESS (5:00pm – 6:00pm)

What is a First-Person Perspective?

Thomas Metzinger

Johannes Gutenberg-Universität Mainz, metzinge@uni-mainz.de

Venue: Colony Ballroom (2nd Floor)

-- Opening Night Reception --

ASSC14 Conference Schedule
Friday, June 25th

KEYNOTE 1 (9:00am – 10:00am)

Do Animals Make Shopping Lists? Prospection and Planning by Crows and Children

Nicola S. Clayton

University of Cambridge, UK. n.clayton@psychol.cam.ac.uk

Venue: Colony Ballroom (2nd Floor)

-- Coffee Break --

SYMPOSIUM 1 (10:30am – 12:30pm)

Conscious Awareness, Perceptual Decision making and the Bayesian Brain

Chair: Hakwan Lau

Venue: Colony Ballroom (2nd Floor)

A dual-route theory of evidence accumulation during conscious access

Stanislas Dehaene¹ & Lucie Charles¹

¹ INSERM-CEA Cognitive Neuroimaging unit Stanislas.Dehaene@cea.fr

Comparing different signal processing architectures that support conscious reports

Hakwan Lau

Columbia University USA hakwan@gmail.com

Dual route vs. hierarchical models and the normative role of conscious perception

Imogen Dickie

University of Toronto imogen.dickie@utoronto.ca

Models of perceptual decision and Tolstoy's principle of the nature of consciousness

Ned Block

New York University ned.block@nyu.edu

-- Lunch Break --

CONCURRENT SESSION 1 (1:30pm – 3:30pm)

(A) - Blindsight, eye movements, and awareness

Chair: Melanie Wilke

Venue: Colony Ballroom East (2nd Floor)

1:30pm - Guidance of gaze based on color saliency in monkeys with blindsight.

Yoshida Masatoshi¹, Laurent Itti², David Berg¹, Takuro Ikeda¹, Rikako Kato¹, Kana Takaura¹, and Isa Tadashi¹.

¹ National Institute for Physiological Sciences myoshi@nips.ac.jp

² Computer Science Department, University of Southern California

1:50pm - Task-irrelevant blindsight, attention, and a function of conscious sight.

Petra Stoerig¹

¹Institute of Experimental Psychology, Heinrich-Heine-university Düsseldorf

petra.stoerig@uni-duesseldorf.de

2:10pm - Gaze-cueing attention without awareness.

Robert Kentridge¹, Jo Mason², and Charles Heywood¹

¹ University of Durham, robert.kentridge@durham.ac.uk

² University of Bangor

2:30pm - Paradoxical effects of fixational eye movements at the threshold of visual awareness.

Aaron Schurger¹, Kim Minsoo², Anne Treisman¹, and Jonathan Cohen¹.

¹ INSERM U992 / NeuroSpin aaron.schurger@gmail.com

² Princeton University

2:50pm - Intimate Pacmen: Shrinkage of a Kanizsa triangle around the blind spot.

Nicole Pernat¹, Richard LeGrand¹, Wayne Podrouzek¹, André Aßfalg¹, and Dianne Crisp¹.

¹ Kwantlen Polytechnic University nicole.pernat@gmail.com

3:10pm - An invisible signal can be made accessible to consciousness by training the perceptual system to use it for a novel purpose.

Massimiliano Di Luca¹, Marc O. Ernst¹, and Benjamin T. Backus².

¹ Max Planck Institute for Biological Cybernetics

² SUNY College of Optometry ben.backus@gmail.com

(B) - Qualia, Phenomenology, and Sensation

Chair: Allen Houg

Venue: Colony Ballroom West (2nd Floor)

1:30pm - Felt Agency and the Consistency Criterion.

George Seli.

Graduate Center, City University of New York gseli@gc.cuny.edu

1:50pm - The Phenomenology of Visual Self-Location.

John Schwenkler.

Department of Philosophy, Mount St. Mary's University schwenkler@msmary.edu

2:10pm - Toward a more perfect union - The prospects for integrating diverse theories of consciousness.

Robert Van Gulick.

Syracuse University rnavangul@syr.edu

2:30pm - Experimental paradigms for studying the latency for conscious sensation. Gilberto Gomes.

UENF ggomes@uenf.br

2:50pm - Stinking consciousness!

Benjamin D. Young.

City University of New York, Graduate Center byoung@gc.cuny.edu

3:10pm - The phenomenology of certainty: A reinterpretation of classical epistemological questions.

Jennifer Windt.

Johannes Gutenberg University of Mainz windt@uni-mainz.de

(C)- Implicit Learning: Must we articulate what we (consciously) know?

Chair: Axel Cleeremans

Venue: Giovanni Room (2nd Floor)

1:30pm - Does unconscious knowledge of artificial grammars exist?

Zoltan Dienes.

University of Sussex dienes@sussex.ac.uk

1:50pm - Is statistical learning exclusively implicit? Julie Bertels¹, Ana Franco², and Arnaud Destrebecqz¹.

¹ Fonds de la Recherche Scientifique – FNRS jbortels@ulb.ac.be

² Université Libre de Bruxelles

2:10pm - Awareness in affective learning.

Robert Balas¹ and Joanna Swekleja¹.

¹ Warsaw School of Social Sciences and Humanities rbalas@swps.edu.pl

2:30pm - Flexible control over unconscious structural knowledge.

Elisabeth Norman¹, Mark Price¹, Ryan Scott¹, Emma Jones¹, and Zoltan Dienes².

¹ University of Bergen elisabeth.norman@psysp.uib.no

² University of Sussex

2:50pm - Subordinate categorization requires conscious awareness.

Ido Amihai¹, Leon Deouell¹, and Shlomo Bentin¹.

¹ Hebrew University idoamihai@yahoo.com

3:10pm - Brain dynamics as music: analysis of musical properties in fMRI and its conscious correlates.

Dan Lloyd.

Trinity College, Philosophy and Neuroscience dan.lloyd@trincoll.edu

-- Coffee Break --

CONCURRENT SESSION 2 (4:00pm – 6:00pm)

(A)- Priming, Timing, and Neural Coding

Chair: Stanislas Dehaene

Venue: Colony Ballroom East (2nd Floor)

4:00pm - Neurocomputational modeling of the unmasked priming: Positive and negative congruency effects.

Ahmad Sohrabi¹, Robert West², and Andrew Brook².

¹ Psychology, University of Kurdistan sohrabya@gmail.com

² Carleton University

4:20pm - Conscious experience cannot be primed.

Dwayne Pare¹, Steve Joordens¹, Marc van Duijn¹, and Mina Atia¹.

¹ University of Toronto at Scarborough dpare@psychexperiments.com

4:40pm - Game outcome retrospectively determines the time of action.

Eve Isham¹, William Banks², Arne Ekstrom¹, and Jessica Stern¹.

¹ Claremont Graduate University eaisham@ucdavis.edu

² Pomona College

5:00pm - The neural basis of self-monitoring attentional status.

Noriko Yamagishi¹, Eiichi Naito², Stephen Anderson¹, and Mitsuo Kawato¹.

¹ ATR computational Neuroscience Laboratories, PRESTO, JST n.yamagishi@atr.jp

² NICT, ATR

5:20pm - One hand clapping, or: why silent units do matter.

Shimon Edelman¹ and Tomer Fekete².

¹ Psychology Department, Cornell University se37@cornell.edu

² Stony Brook University

5:40pm - Investigating intrinsic brain activity: a role for exploratory introspection. Adrienne Prettyman.

Department of Philosophy, University of Toronto adrienne.prettyman@gmail.com

(B)- Theories of Consciousness

Chair: Anil Seth

Venue: Colony Ballroom Center (2nd Floor)

4:00pm - Identifying phenomenal subjectivity in machine consciousness.

Don Borrett¹, David Shih¹, Michael Tomko¹, Sarah Borrett¹, and Hon Kwan¹.

¹ University of Toronto d.borrett@utoronto.ca

4:20pm - A Critique and Extension of Consciousness as Integrated Information.

Igor Aleksander¹ and David Gamez¹.

¹ Imperial College, London i.aleksander@imperial.ac.uk

4:40pm - Differential thalamocortical connections toward understanding consciousness from information and integration.

Xiaolin Liu¹, Jingsheng Zhou², Anthony Hudetz¹, and Shi-Jiang Li¹.

¹ Medical College of Wisconsin xiliu@mcw.edu

² Xuanwu Hospital Capital Medical University

5:00pm - Consciousness: the radical plasticity thesis.

Axel Cleeremans.

Consciousness, Cognition & Computation Group, Université Libre de Bruxelles axcleer@ulb.ac.be

5:20pm - Forms of unity as a constraint on theories of consciousness.

Tobias Schlicht.

Centre for Integrative Neuroscience tobias.schlicht@cin.uni-tuebingen.de

5:40pm - The Quality-Space Theory of Mental Qualities.

David Rosenthal.

CUNY Graduate Center davidrosenthal@nyu.edu

(C)- Consciousness, Cognitive control, and Beliefs

Chair: TBA

Venue: Giovanni Room (2nd Floor)

4:00pm - I know what you don't - a social affordance view on other minds and false belief tests.

Maria Brincker.

City University of New York, Graduate Center mbrincker@gc.cuny.edu

4:20pm - The neural correlates of alien thoughts in the brain.

Simone Kuhn¹, Juergen Gallinat², Gottfried Vosgerau¹, Patrick Haggard¹, and Martin Voss².

¹ ICN, UCL London

² Department of Psychiatry, Charité University Hospital martin.voss@charite.de

4:40pm - Awakening consciousness: discrepancy, binding and memory enhancement. Steve Joordens¹ and Sarah Uzzaman².

¹ University of Toronto at Scarborough joordens@utsc.utoronto.ca

² University of Toronto

5:00pm - Re-thinking the active-passive distinction in attention.

Carolyn Suchy-Dacey.

Boston University carolynsd@gmail.com

5:20pm - Prolonged internal control of awareness yields changes in the underlying mechanisms.

Kevin C. Dieter¹, Michael D. Melnick¹, and Duje Tadin¹.

¹ University of Rochester kdieter@bcs.rochester.edu

5:40pm - Consciousness about cognitive processing, executive control and cognitive performance.

Nikolaos Makris¹ and Dimitris Pnevmatikos².

¹ Democritus University of Thrace nmakris@eled.duth.gr

² University of Western Macedonia

**ASSC14 Conference Schedule
Saturday, June 26th**

KEYNOTE 2 (9:00am – 10:00am)

Image and Message in Sensory States

Mohan Matthen

University of Toronto, Canada mohan.matthen@utoronto.ca

Venue: Colony Ballroom (2nd Floor)

-- Coffee Break --

SYMPOSIUM 2 (10:30am – 12:30pm)

Possible Contributions of Research on Meditation to the Neuroscience of Consciousness

Chair: Antoine Lutz

Venue: Colony Ballroom (2nd Floor)

Focused Attention, Open Monitoring and Open Presence: Three Styles of Meditation and their Relevance for the Study of Consciousness

John D. Dunne

Emory University, USA jdunne@emory.edu

Impact of Meditation Training on Attention and Emotion Regulations: Implications for the Study of Consciousness.

Antoine Lutz

University of Wisconsin-Madison, alutz@wisc.edu

Effects of intensive mental training on the temporal dynamics of access to consciousness in the attentional blink.

Heleen Slagter

University of Amsterdam, haslagter@gmail.com.

-- Lunch Break --

POSTER SESSION 1 (1:30pm – 3:30pm)

Titles and Abstracts listed after the final talk sessions

Venue: St Patrick & St David rooms (3rd Floor)

-- Coffee Break --

CONCURRENT SESSION 3 (4:00pm – 6:00pm)

(A)- Attention, Rivalry, and Illusions

Chair: Hugh Wilson

Venue: Colony Ballroom East (2nd Floor)

4:00pm - An oblique illusion modulated by awareness: non monotonic sensory integration in orientation process.

Jérôme Sackur¹, Vincent de Gardelle¹, and Sid Kouider¹.

¹ LSCP jerome.sackur@gmail.com

4:20pm - Binocular rivalry: mechanisms, genetics, applications and the scientific study of consciousness.

Steven Miller.

Perceptual and Clinical Neuroscience Group, Monash University steven.miller@med.monash.edu.au

4:40pm - Mapping the time course of binocular rivalry and percept stabilization using MEG.

Kristian Sandberg¹, Bahador Bahrami², Ryota Kanai¹, Gareth Robert Barnes¹, Morten Overgaard¹, and Geraint Rees¹.

¹ Hammel Neurorehabilitation and Research Centre krissand@rm.dk

² ICN, University College London, UK

5:00pm - Attention, surface and boundary signals in the perception of afterimages.

Jeroen van Boxtel¹ and Christof Koch¹.

¹ Caltech jeroen@caltech.edu

5:20pm - Attentional load alters visual excitability.

David Carmel¹, Jeremy Thorne², Geraint Rees¹, and Nilli Lavie¹.

¹ Psychology and Center for Neural Sciences, New York University davecarmel@nyu.edu

² University Hospital Jena, Germany

5:40pm - Gustatory cortex activation with and without perceptual awareness of taste. Noam

Sagiv¹, Alireza Ilbeigi¹, Sean Williams¹, and Adrian Williams¹.

¹ Brunel University nsagiv127-c@yahoo.com

(B)- Body Perception, Cognitive Control, and Awareness

Chair: Mel Goodale

Venue: Colony Ballroom Center (2nd Floor)

4:00pm - Mental ownership constrains the rubber hand illusion.

Timothy J. Lane¹ and Caleb Liang².

¹ Research Center for Mind, Brain, and Learning, National Chengchi University tlan@nccu.edu.tw

² Department of Philosophy, Chengchi University

4:20pm - The rubber hand and the bayesian body.

Jakob Hohwy¹ and Bryan Paton¹.

¹ Philosophy, SOPHIS, Monash University jakob.hohwy@arts.monash.edu.au

4:40pm - Rubber hands, virtual bodies and bodily subjectivity.

Alisa Mandrigin.

University of Edinburgh a.mandrigin@sms.ed.ac.uk

5:00pm - Enhancing cognitive control through neurofeedback: A role of gamma-band activity in managing episodic retrieval.

Andre Keizer¹, Maurice Verschoor², Roland Verment¹, and Bernhard Hommel¹.

¹ University of Amsterdam a.w.keizer@uva.nl

² Leiden University

5:20pm - On the verge of consciousness: sedation impairs decision making.

Tristan Bekinschtein¹, Ram Adapa², David K. Menon¹, and Adrian M. Owen¹

¹ MRC Cognition and Brain Sciences Unit tristan.bekinschtein@mrc-cbu.cam.ac.uk

² Division of Anaesthesia, University of Cambridge

5:40pm - The conscious mind in the still body: fMRI of the vegetative state.

Martin Monti¹ and Adrian Owen¹.

¹ MRC Cognition and Brain Sciences Unit martin.monti@mrc-cbu.cam.ac.uk

(C)- Non-human consciousness and Dreaming

Chair: Thomas Metzinger

Venue: Giovanni Room (2nd Floor)

4:00pm - Investigating consciousness outside the vertebrate lineage: theory, method, and progress.

David Edelman¹, Piero Amodio², Anna Maria Grimaldi², and Graziano Fiorito².

¹ The Neurosciences Institute david_edelman@nsi.edu

² Stazione Zoologica Anton Dohrn

4:20pm - Numerical Cognition in wild New Zealand Robins.

M Alexis Garland¹, Jason Low¹, and Kevin Burns¹.

¹ Victoria University of Wellington alexis.garland@vuw.ac.nz

4:40pm - A comparative study in the perception of self-agency between human and chimpanzee.

Takaaki Kaneko¹ and Masaki Tomonaga¹.

¹ Kyoto University tkaneko@pri.kyoto-u.ac.jp

5:00pm - Evolutionary psychology, or how not to explain the human mind.

Alex Gamma.

ETH Zurich agamma@ethz.ch

5:20pm - Primary consciousness in pill bugs (*Armadillidium vulgare*, Isopoda, Crustacea).

Tohru Moriyama.

Shinshu University toru@shinshu-u.ac.jp

5:40pm - Dreamed movement elicits activation in the motor cortex.

Martin Dresler.

Max Planck Institute of Psychiatry dresler@mpipsykl.mpg.de

ASSC14 Conference Schedule

Sunday, June 27th

KEYNOTE 3 (9:00am – 10:00am)

Varieties of Memory and Consciousness: A Cognitive Neuroscience Perspective

Morris Moscovitch

University of Toronto, Canada. momos@psych.utoronto.ca

Venue: Colony Ballroom (2nd Floor)

-- Coffee Break --

SYMPOSIUM 3 (10:30am – 12:30pm)

Crowding, blink and attention: what can they tell us about Consciousness?

Chair: Ramakrishna Chakravarthi

Venue: Colony Ballroom (2nd Floor)

Weak target masks and distant flankers interact to produce a catastrophic supercrowding effect

Timothy Vickery

Yale University, USA tim.vickery@gmail.com

The resolution of conscious vision: Visual crowding in infants and adults.

David Whitney

University of California, Davis, USA dwhitney@ucdavis.edu

Pool party: Admit one

Ramakrishna Chakravarthi

CNRS, Faculte de Medecine de Rangueil, Toulouse, France chakravarthi@cercu.ups-tlse.fr

On when, how, and why attention blinks

Mark Nieuwenstein

University of Groningen, The Netherlands M.R.Nieuwenstein@rug.nl

-- Lunch Break --

SYMPOSIUM 4 (1:30am – 3:30pm)

Neurophysiological approaches within the scientific study of consciousness

Chair: Alexander Maier

Venue: Colony Ballroom (2nd Floor)

Backward masking and continuous flash suppression in human intracranial recordings

Naotsugu Tsuchiya

California Institute of Technology, USA & Tamagawa University, Japan naotsu@gmail.com

Activity in the primary visual cortex related to visual awareness

Alexander Maier

National Institute of Mental Health, USA maiera@mail.nih.gov

Role of thalamo-cortical interactions in spatial awareness

Melanie Wilke

California Institute of Technology, USA melanie@vis.caltech.edu

-- Coffee Break --

POSTER SESSION (4:00pm – 5:30pm)

Titles and Abstracts listed after the final talk sessions

Venue: St Patrick & St David Rooms (3rd Floor)

KEYNOTE 4 (5:30pm – 6:30pm)

Oscillatory Dynamics in the Human Cortex

Robert T. Knight

University of California at Berkeley rtnight@berkeley.edu

Venue: Colony Ballroom (2nd Floor)

■ **Closing Remarks & Presentation of Student Poster Prizes –**

■ Randy McIntosh & Mel Goodale

Venue: Colony Ballroom (2nd Floor)

Poster Session 1: Saturday, June 26th

Venue: St Patrick & St David rooms (3rd Floor)

1. Probing for functional sites of consciousness with anesthetics: the role of the cytoskeleton.

Travis Craddock¹, Holly Freedman¹, and Jack Tuszynski¹.

¹ University of Alberta traddoc@phys.ualberta.ca

2. Monitoring the depth of anesthesia using the time-varying spectral lines of EEG.

Eunji Kang¹, Hossam El Beheiry², Jean Wong¹, Peter Carlen¹, and Berj Bardakjian¹.

¹ University of Toronto ellen.kang@utoronto.ca

² University Health network

3. Potential confounds in region of interest studies of impaired states of consciousness.

David Jones¹, Brendon Boot¹, Kirk Welker¹, Jennifer E. Fugate¹, Daniel Drubach¹, Alejandro Rabinstein¹, and Eelco Wijdicks¹.

¹ Mayo Clinic jones.david@mayo.edu

4. Inverse correlation of fMRI default mode network connectivity in the persistent vegetative state.

David Jones¹, Brendon Boot¹, Kirk Welker¹, Jennifer E. Fugate¹, Daniel Drubach¹, Alejandro Rabinstein¹, and Eelco Wijdicks¹.

¹ Mayo Clinic bboot@med.usyd.edu.au

5. Regional thalamic atrophy in vegetative and minimally conscious states.

Davinia Fernandez-Espejo¹, Carme Junque¹, Montserrat Bernabeu¹, Teresa Roig-Rovira¹, Pere Vendrell¹, and Jose Maria Mercader¹.

¹ University of Barcelona daviniafernandez@ub.edu

6. Language comprehension in the vegetative and minimally conscious states.

Damian Cruse¹, Tristan Bekinschtein¹, and Adrian Owen¹.

¹ MRC Cognition and Brain Sciences Unit damian.cruse@mrc-cbu.cam.ac.uk

7. Is anybody in there? Detecting consciousness without language comprehension or behavioural responses.

Ryan Scott¹, Ludovico Minati¹, Anil Seth¹, and Zoltan Dienes¹.

¹ University of Sussex r.b.scott@sussex.ac.uk

8. An fMRI study of the default mode network connectivity in comatose patients.

Loretta Norton¹, Matt Hutchison¹, Michael Sharpe¹, Bryan Young¹, and Seyed Mirsattari¹.

¹ University of Western Ontario lnorton4@uwo.ca

9. Default mode network and impaired consciousness in epilepsy.

Hal Blumenfeld.

Neurology, Neurobiology and Neurosurgery, Yale University School of Medicine

hal.blumenfeld@yale.edu

10. **Sleep patterns and their significance for disorders of consciousness.**
Manuel Schabus¹, Kerstin Hoedlmoser¹, Katharina Weilhart¹, Christoph Pelikan¹, Nicole Chwala¹, Victor Cologan¹, Pierre Maquet¹, and Steven Laureys¹.
¹ University of Salzburg, Austria manuel.schabus@sbg.ac.at
11. **Higher order thoughts and hypnotisability.**
Rebecca Semmens-Wheeler¹ and Zoltan Dienes¹.
¹ University of Sussex r.semmens-wheeler@sussex.ac.uk
12. **Conceptual requirements for state consciousness: HOT theory, autism, and a minimally sufficient TOM.**
Lee-Anna Sangster.
The University of Western Ontario lsangst@uwo.ca
13. **Detecting movement volition in a patient with vegetative state.**
Haibo Di¹, Zirui Huang², and Steven Laureys¹.
¹ Hangzhou Normal University
² Institute of Psychology, Chinese Academy of Sciences mystery_fever@yahoo.com.cn
14. **Consciousness at stake: perceptual and semantic decisions under sedation.**
Ram Adapa¹, Tristan Bekinschtein¹, Anthony Absalom¹, Adrian Owen¹, and David K. Menon¹.
¹ Division of Anaesthesia, University of Cambridge ra342@cam.ac.uk
15. **Out-of-body experiences – is there need for a composite hypothesis?**
Marco A. Benz.
University Hospital of Psychiatry, Zurich, Switzerland marcoabenz@hotmail.com
16. **Self-regulation in children with ADHD: Behavioral and fMRI data.**
Hélène Poissant¹, Adrianna Mendrek², Nouredine Senhadji¹, Bianca Bier¹, and Gilles Raiche¹.
¹ Université Quebec Montreal poissant.helene@uqam.ca
² Université de Montreal
17. **Prefrontal activation in performing on computerized maze problems: how cognitive consciousness works.**
Hiromitsu Miyata¹, Shigeru Watanabe², Yasuyo Minagawa-Kawai¹.
¹ Japan Society for the Promotion of Science miyatahiromitsu@gmail.com
² Keio University
18. **Practical measures of integrated information for stationary, continuous systems.**
Adam Barrett¹ and Anil Seth¹.
¹ Sackler Centre for Consciousness Science, University of Sussex adam.barrett@sussex.ac.uk
19. **Relating metacognitive sensitivity to human brain structure: a combined psychophysical-MRI study.**
Stephen Fleming¹, Rimona Weil¹, Raymond Dolan¹, and Geraint Rees¹.
¹ University College London s.fleming@fil.ion.ucl.ac.uk

20. An anatomical prerequisite of consciousness: Convergent - divergent transmission nets.

Thomy Nilsson.

Department of Psychology, University of Prince Edward Island nilsson@upei.ca

21. Human brain connectivity subserves the conscious condition.

Murray Shanahan.

Imperial College London m.shanahan@imperial.ac.uk

22. A model of primitive consciousness on an autonomously adaptive system.

Yasuo Kinouchi¹, Shoji Inabayashi², and Yoichi Nakazaki³.

^{1,3} Tokyo University of Information Sciences kinouchi@rsch.tuis.ac.jp

² Pacific Technos Corp.

23. The network properties of conscious experience: 'small worlds' and functional connectivity.

Erik Hoel¹, Michael Hogan¹, and Jane Couperus¹.

¹ Hampshire College hoelerik@gmail.com

24. EEG validation of a proposed regulatory definition of phenomenal experience.

Sarah Borrett¹, Mohamed Abdelghani¹, Pushan Lele¹, Don Borrett¹, and Hon Kwan¹.

¹ Department of Physiology, University of Toronto 8sb7@queensu.ca

25. Magnetoencephalography (MEG) in Sudoku-puzzle solving task.

Yoshi Tamori¹ and Kensuke Tsuda¹.

¹ Kanazawa Institute of Technology yo@his.kanazawa-it.ac.jp

26. Propofol-induced changes of brain activation and thalamocortical connectivity - interpreted from information and integration.

Anthony Hudetz¹, Xiaolin Liu¹, and Shi-Jiang Li¹.

¹ Medical College of Wisconsin xiliu@mcw.edu

27. Distinct oscillatory brain activity in disorders of consciousness.

Manuel Schabus, Robert Fellinger¹, Caroline Schnakers¹, Fabien Perrin¹, Roman Freunberger¹, Wolfgang Klimesch¹, Steven Laureys¹.

University of Salzburg, Austria manuel.schabus@sbg.ac.at

28. Brain oscillations underlying conscious perception.

Bernhard Ross.

Rotman Research Institute, University of Toronto bross@rotman-baycrest.on.ca

29. Perception is a confidence game: Shared characteristics between consciousness and blackboard systems.

Michael Waterston.

Rotman Research Institute mwaterston@rotman-baycrest.on.ca

30. The feeling of what happens in a game.

Tsugumi Takano¹ and Ken Mogi².

¹ Tokyo Institute of Technology tsugumi@brn.dis.titech.ac.jp

² Sony computer science laboratories

31. **Decision-making experiments under a philosophical perspective.**
Gabriel Mograbi.
Federal University of Mato Grosso gabriel.mograbi@gmail.com
32. **Does Buddhist meditation facilitate prediction?**
Hyun-Hee Kim.
University of the West harmoneek59@gmail.com
33. **Christian and Buddhist contemplative science: does either inform neuroscience?**
Michel Ferrari.
Human Development & Applied Psychology, University of Toronto michelpvferrari@gmail.com
34. **Stress-reduction and the cost of paying attention: focused attention vs. open awareness meditation.**
Ida Hallgren Carlson.
University of Gothenburg idahallgren@hotmail.com
35. **Can subjectivity be explained away?**
Shun-Pin Hsu¹ and Allen Houg¹.
¹ National Yang-Ming University sphsu@ym.edu.tw
36. **A new way of explaining schizophrenia and the immunity to error through misidentification.**
Emma Chien¹ and Allen Y. Houg¹.
¹ National Yang-Ming University emmapchien@gmail.com
37. **An explanation of consciousness. What is the explanandum?**
Mads Jensen¹ and Asbjørn Steglich-Petersen¹.
¹ Cognitive Neuroscience Research Unit mje.mads@gmail.com
38. **Explaining the experience of succession.**
Michal Klincewicz.
CUNY Graduate Center michal.klincewicz@gmail.com
39. **Do we need the environment to determine the content of consciousness?**
Ling-Fang Kuo¹ and Allen Y. Houg¹.
¹ National Yang-Ming University sierra214135@gmail.com
40. **Extended consciousness.**
Andrew Brook.
Carleton University abrook@ccs.carleton.ca
41. **Inattentive blindness exemplifies consciousness without attention.**
Benjamin Kozuch.
Department of Philosophy, University of Arizona bigben@email.arizona.edu
42. **Intentionalism and representational qualitative character.**
Jacob Berger. The Graduate Center, CUNY jfberger@gmail.com

43. **The interactive representation of the motor control.**
Hsi-wen Daniel Liu.
Providence University hwliu@pu.edu.tw
44. **Consciousness and action control.**
Myrto Mylopoulos.
Graduate Center, CUNY myrto.mylopoulos@gmail.com
45. **The eyes as the gate to the mind: when consciousness wanders, does the gate slam shut?**
Sarah Uzzaman¹ and Steve Joordens².
¹ University of Toronto sarah.uzzaman@utoronto.ca
² University of Toronto at Scarborough
46. **Double narrow content theory (DNC). Explaining phenomenal properties.**
Miguel Ángel Sebastián.
LOGOS-UB msebastian@gmail.com
47. **Consciousness and the tribunal of experience.**
Richard Brown.
LaGuardia College, CUNY onemorebrown@gmail.com
48. **The neuroanatomy of consciousness and the (multiple) boundaries of moral significance.**
Ilya Farber.
Singapore Management University ilya@reductio.com
49. **Operationalising what?**
Liz Irvine.
University of Edinburgh elizabethirv@gmail.com
50. **Empirically testing purported non-symbolic consciousness claims using standard psychological methods.**
Jeffery Martin.
Harvard University jamartin@fas.harvard.edu
51. **How 'epi' are phenomena? -- Philosophical vs psychological epiphenomenalism.**
Bill Faw
Brewton Parker College bfaw@bpc.edu
52. **Implicit coherence detection – how emotions regulate unconscious bases for intuitive choice.**
Joanna Sweklej¹, Robert Balas¹, Grzegorz Pochwatko¹, and Malgorzata Godlewska¹.
¹ Warsaw School of Social Sciences and Humanities jsweklej@swps.edu.pl

53. The effect of intention-based and stimulus-based action in temporal reproduction.

Tomomitsu Herai¹ and Ken Mogi².

¹ Tokyo Institute of Technology herai@brn.dis.titech.ac.jp

² Sony Computer Science Laboratories

54. The hidden observer effect, cognitive effort and involuntariness: a real-simulator investigation of streams of consciousness.

Shelagh Freedman¹, Joanne Downs¹, and Jean-Roch Laurence¹.

¹ Concordia University shelaghfreedman@gmail.com

Poster Session 2: Sunday, June 27th

Venue: St Patrick & St David rooms (3rd Floor)

1. Unsupervised visual one-shot learning as restoration of degraded images: a novel morphing paradigm.

Tetsuo Ishikawa¹ and Ken Mogi².

¹ Tokyo Institute of Technology bracket@cilas.net

² Sony Computer Science Laboratories, Inc.

2. Physical delay but not subjective delay determines the learning rate in prism adaptation.

Hiroshi Imamizu¹, Kazuhiro Homma², and Hirokazu Tanaka¹.

¹ NICT imamizu@gmail.com

² Nagaoka University of Technology

3. Transfer of prior knowledge in implicit learning.

Krzysztof Piotrowski¹, Zbigniew Stettner¹, and Michal Wierzbachon¹.

¹ Jagiellonian University k.t.piotrowski@uj.edu.pl

4. How do we find words in implicit artificial language learning?

Arnaud Destrebecqz¹, Ana Franco¹, and Axel Cleeremans¹.

¹ Université Libre de Bruxelles afranco@ulb.ac.be

5. Measuring consciousness in implicit learning process.

Agnieszka Poplawska¹ and Alina Kolanczyk¹.

¹ Warsaw School of Social Sciences apoplawska1@swps.edu.pl

6. Semantic eye-blink conditioning; a paradigm to test abstract categorization and learning in DOC.

Moos Peeters¹, Adrian Owen², and Tristan Bekinschtein¹.

¹ Faculty of Psychology and Neuroscience, Maastricht University, the Netherlands

moos.peeters@mrc-cbu.cam.ac.uk

² MRC Cognition and Brain Sciences Unit

- 7. EEG correlates of conscious versus unconscious knowledge in artificial grammar learning.**
Lulu Wan¹, Zoltan Dienes², I-Fan Su¹, and Xiaolan Fu¹.
¹ Institute of Psychology, Chinese Academy of Sciences luluw0312@gmail.com
² University of Sussex
- 8. Conscious and unconscious thought in implicit learning.**
Andy Mealor¹ and Zoltan Dienes¹.
¹ University of Sussex A.D.Mealor@sussex.ac.uk
- 9. Transient neglect: visual working memory mediates conscious visual perception.**
Stephen Emrich¹, Hana Burianová², and Susanne Ferber¹.
¹ University of Toronto steve.emrich@utoronto.ca
² Macquarie University
- 10. Trade-off in the effect of attention for visual short term memory.**
Eiichi Hoshino¹ and Ken Mogi².
¹ Tokyo Institute of Technology eiichi@brn.dis.titech.ac.jp
² Sony Computer Science Laboratories
- 11. Perceptual object priming in the absence of recognition memory.**
Carlos Alexandre Gomes¹ and Andrew R. Mayes¹.
¹ University of Manchester cgomes.cami@gmail.com
- 12. Ouija and the ideomotor effect: when implicit memory turns explicit.**
Helene Gauchou¹ and Ronald Rensink¹.
¹ Visual Cognition Lab UBC helene.gauchou@gmail.com
- 13. Recognition memory with or without subjective confidence: qualitative differences.**
Heather Sheridan¹ and Eyal M. Reingold¹.
¹ University of Toronto at Mississauga heather.sheridan@utoronto.ca
- 14. The duration of awareness during interocular suppression correlates with subsequent memory.**
Diego Mendoza¹ and Avi Chaudhuri¹.
¹ McGill University diego.mendoza@mail.mcgill.ca
- 15. Anosognosia of memory impairment in dementia: a population-based study.**
Daneil Mograbi¹, Robin Morris¹, and Cleusa Ferri¹.
¹ Institute of Psychiatry, King's College London daniel.mograbi@kcl.ac.uk
- 16. In and out of consciousness: The role of visual short-term memory.**
Carson Pun¹, Kristin Wilson¹, Stephen M. Emrich¹, and Susanne Ferber¹.
¹ University of Toronto pun@psych.utoronto.ca
- 17. The phenomenology of personal wisdom in younger and older Canadian adults.**
Michel Ferrari¹, Nic Weststrate¹, Anda Petro¹, and Roshan Annalingam¹.
¹ University of Toronto michelpvferrari@gmail.com

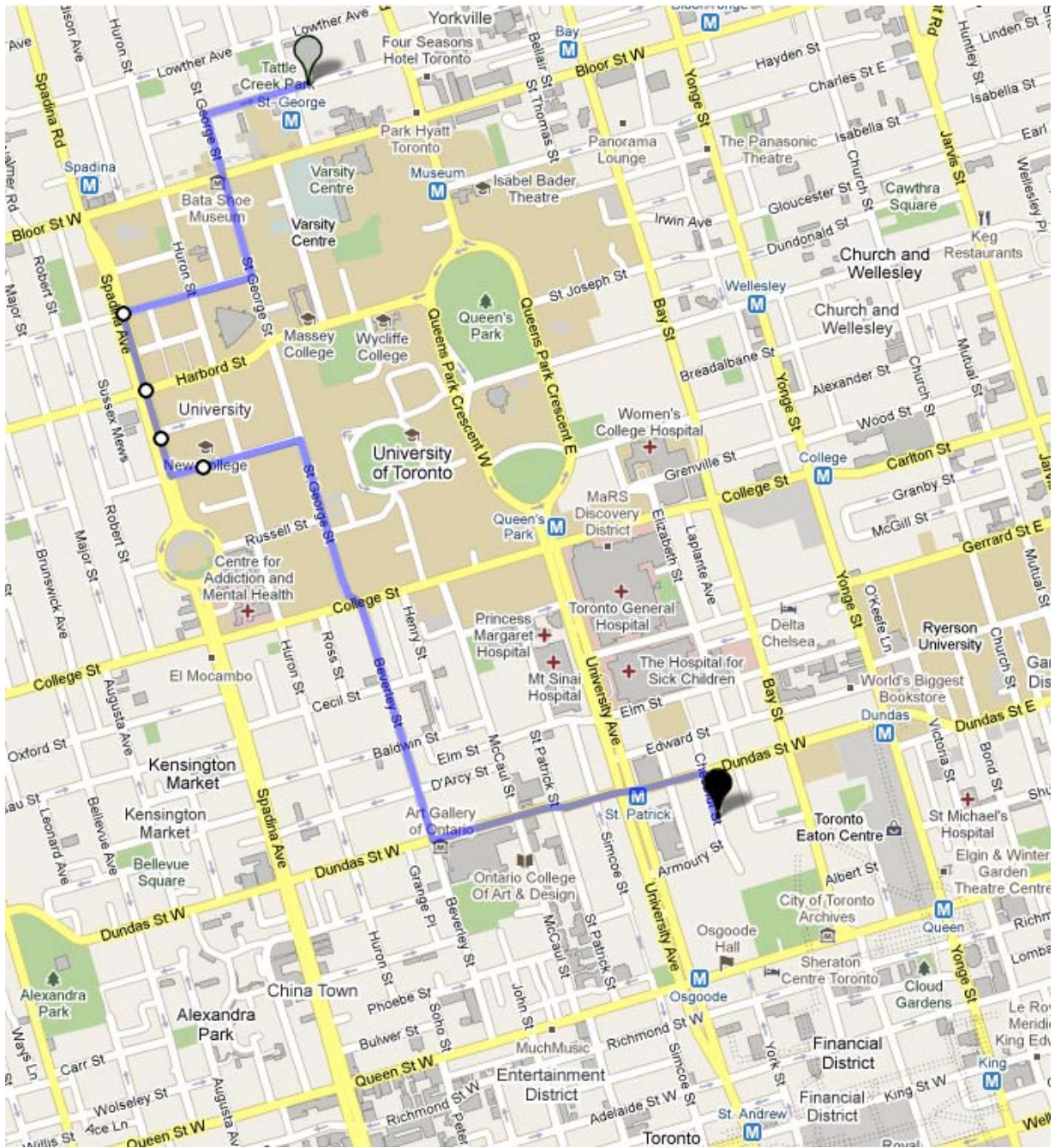
- 18. Lessons from pain science: phenomenology and structure in the scientific study of consciousness.**
Sascha M. B. Fink.
University of Osnabrück cogsci@finks.de
- 19. The detectable consciousness and the phenomenology.**
Chihyi Hung¹ and Allen Houg².
¹ Institute of Philosophy of Mind and Cognition jh.philo@gmail.com
² IPMC, NYMU
- 20. The phenomenology of cognition: What is it like to be my thought?**
David Tostenson.
Santa Fe College tostenso@ufl.edu
- 21. Can there be a scientific explanation of consciousness without qualia?**
Stephen R. Deiss.
UC San Diego deiss@appliedneuro.com
- 22. On the selving self: a reappraisal of Kant's theory of consciousness and James' anti-Kantianism.**
Paulo Jesus.
Philosophy Center of Lisbon University paulorenatus@gmail.com
- 24. On self-awareness and being an objective particular in an objective space and time.**
Fauve Lybaert.
University of Leuven (Belgium) fauve.lybaert@hiw.kuleuven.be
- 25. Self-consciousness and anosognosia in Alzheimer's dementia.**
Karen Yan.
Johns Hopkins University ryan5@jhu.edu
- 26. Only time will tell: On the nature of free will.**
Ken Mogi
Sony Computer Science Laboratories kenmogi@qualia-manifesto.com
- 27. Reflections of the self: an fMRI investigation of links between animistic thought and self-processing.**
Monika Sobczak¹, Noam Sagiv¹, and Adrian Williams¹.
¹ Brunel University sobmon@gmail.com
- 28. Quantifying the richness of phenomenal experience.**
Tomer Fekete¹ and Shimon Edelman².
¹ Stony brook university Tomer.Fekete@mail.huji.ac.il
² Cornell University
- 29. Kant's theory of consciousness and self-representationalism.**
Jerry Yang.
National Taipei University of Technology jyang@ntut.edu.tw

30. **Deferential phenomenal concepts? Not for the zombie Mary.**
Lynn C.H. Chiu.
University of Missouri-Columbia ccf79@mail.missouri.edu
31. **Consciousness, access and phenomenal overflow: a reply to Block.**
T. Bradley Richards.
University of Guelph trichard@uoguelph.ca
32. **Do dementia patients lose their self?**
Lin Ying-Tung¹ and Allen Y. Houg².
¹ Johannes-Gutenberg-Universität Mainz jo.yt.lin@gmail.com
² National Yang-Ming University
33. **The context of stimulus association influences the perception of visual similarity.**
Jae-Jin Ryu¹ and Thomas Albright¹.
¹ Systems Neurobiology Laboratories, The Salk Institute for Biological Studies jjryu@salk.edu
34. **Masked primes activate the frontal-parietal control system independent from prime visibility.**
Susan Klapötke¹, Daniel Krüger¹, and Uwe Mattler¹.
¹ Institute for Psychology Göttingen smeissn@uni-goettingen.de
35. **Unconscious visual stimuli modulate endogenous orienting of covert spatial attention.**
Simon Palmer¹ and Uwe Mattler¹.
¹ University of Göttingen simon.palmer@psych.uni-goettingen.de
36. **How features of the mask modulate inverse priming effects of unconscious visual stimuli.**
Daniel Krüger¹ and Uwe Mattler¹.
¹ Institute for Psychology, University Göttingen dkruege@uni-goettingen.de
37. **The origins of synaesthesia: a direct comparison of pitch–luminance mapping in chimpanzees and humans.**
Vera Ludwig¹, Ikuma Adachi², and Tetsuro Matsuzawa².
¹ Berlin Charité vera.ludwig@hu-berlin.de
² Primate Research Institute, Kyoto University
38. **What Synaesthesia may tell us about the unity of consciousness.**
Aleksandra Mroczko¹ and Thomas Metzinger².
¹ Department of Philosophy, The University of Mainz mroczka@uni-mainz.de
² Department of Philosophy, Johannes Gutenberg-University
39. **Synaesthesia helps understanding consciousness: Concepts may be made of qualia.**
Danko Nikolic.
Max-Planck Institute for Brain Research, Frankfurt Institute for Advanced Studies
danko.nikolic@gmail.com
40. **An fMRI study of auditory figure-ground segregation.**
Sundeep Teki¹, Maria Chait¹, Sukhbinder Kumar¹, and Timothy D. Griffiths¹
¹ Auditory Research Group, Newcastle University Medical School s.teki@fil.ion.ucl.ac.uk

41. **Unconscious semantic and repetition priming in the auditory modality.**
Jérôme Daltrozzo¹, Carine Signoret¹, Barbara Tillmann¹, and Fabien Perrin¹.
¹ CNRS UCBL UMR5020 fperrin@recherche.univ-lyon1.fr
42. **Electrical brain dissociation for consciously and unconsciously categorized auditory stimuli.**
Carine Signoret¹, Etienne Gaudrain², and Fabien Perrin³.
¹ UCBL - CNRS UMR 5020 Lyon France
² MRC Cognition and Brain Sciences Cambridge UK
³ CNRS UCBL UMR5020 fperrin@recherche.univ-lyon1.fr
43. **Conscious and unconscious spatial frequency processing during facial gender categorization.**
Verena Willenbockel¹, Benoit A. Bacon², Éric McCabe¹, and Frédéric Gosselin¹.
¹ Université de Montréal verena.vw@gmail.com
² Bishop's University
44. **The objects behind the scenes: TMS to area LO disrupts object but not scene categorization.**
Caitlin Mullin¹, Krista Kelly¹, and Jennifer Steeves¹.
¹ York University, Center for Vision Research crmullin@yorku.ca
45. **Preserved grip scaling for immediate but not delayed grasping in the absence of conscious vision.**
Christopher Striemer¹, Robert L. Whitwell¹, and Melvyn A. Goodale¹.
¹ University of Western Ontario cstrieme@uwo.ca
46. **The effect of familiar size on simple reaction times.**
Irene Sperandio¹ and Melvyn A. Goodale¹.
¹ University of Western Ontario irene.sperandio@gmail.com
47. **Embodiment of positive and negative emotions does not affect visual spatial attention differently.**
Shiau-Hua Liu¹ and Li-shin Jhang¹.
¹ Department of Counselling and Clinical Psychology, National Dong-Hwa University
shliu@mail.ndhu.edu.tw
48. **Gender differences in estimation of affective pictures.**
Osvaldas Ruksenas¹, Laura Maciukaite¹, and Ramune Griksiene¹.
¹ Vilnius University osvaldas.ruksenas@gf.vu.lt
49. **Idiosyncratic spatial inhomogeneities in breakthrough to consciousness of suppressed visual stimuli.**
Eric A. Reavis¹, Nicholas Root¹, Peter Kohler¹, and Peter Tse¹.
¹ Dartmouth College eric.a.reavis@dartmouth.edu

50. **The Ebbinghaus illusion requires consciousness of the inducers.**
Peter Kohler¹, Maryam Zafer¹, Eric A. Reavis¹, and Peter U. Tse¹.
¹ Dartmouth College peter.kohler@dartmouth.edu
51. **The Contribution of Luminance, Contrast and Ocular Dominance to Conscious Perception in Onset Rivalry.**
Jody Stanley¹, Olivia Carter¹, and Jason Forte¹.
¹ Department of Psychological Sciences, The University of Melbourne j.stanley2@pgrad.unimelb.edu.au
52. **Conscious access to subliminal stimuli via sensory deprivation.**
Rémi Radel¹ and Ap Dijksterhuis².
¹ University of Ottawa remi.radel@gmail.com
² Radboud University Nijmegen
53. **A common brain network underlying the attentional blink and the psychological refractory period.**
Sebastien Marti¹, Mariano Sigman², and Stanislas Dehaene¹.
¹ Cognitive Neuroimaging Unit, CEA / NeuroSpin sebastien.marti@yahoo.fr
² University of Buenos Aires
54. **Error-related brain activity under subliminal versus conscious conditions.**
Lucie Charles¹, Filip Van Opstal¹, and Stanislas Dehaene¹.
¹ INSERM-CEA Cognitive Neuroimaging unit lucie.charles.ens@gmail.com
55. **Can syntax be processed subliminally?**
Anna-Marie Armstrong¹ and Zoltan Dienes¹.
¹ University of Sussex aa293@sussex.ac.uk

Map and Directions to Student Social



CONFERENCE VENUE (89 Chestnut) - indicated by black dot.

Student Social (7pm Friday 25th June)

Where "Bradford Academy" - indicated by grey dot

Address: 36 Prince Arthur Avenue.

Directions: By public transit, take the Yonge-University-Spadina line to St. George. Exit the station and walk north; turn right at Prince Arthur Street. At the pub, you'll find us on the 2nd floor!

Walking directions: Shown by blue line (3.4km from Conference Venue)